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TM

Test Report: 5W45697, issue 2


Applicant: Aastra Telecom Inc.
155 Snow Boulevard
Concord, ON
L4K 4N9

**Equipment Under Test:
(EUT)** 480i Cordless Base Station

FCC ID: SDV480ICT

In Accordance With: **FCC Part 15, Subpart C**
Frequency Hopping Systems
2400 - 2483.5 MHz

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

Authorized By: 
Sim Jagpal, General Manager

Date: 28 September 2005

Total Number of Pages: 49

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EQUIPMENT: 480i Cordless Base Station

Section 1. Summary of Test Results

General

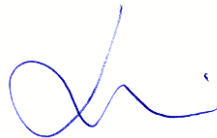
All measurements are traceable to national standards.

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted in accordance with ANSI C63.4-2003. 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.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".



TESTED BY: _____ DATE: 28 September 2005
Xu Jin, Wireless Specialist

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This report applies only to the items tested.

EQUIPMENT: 480i Cordless Base Station

Section 3. Power line Conducted Emissions

Para. No.: 15.207 (a)

Test Performed By: Michel Dorion	Date of Test: May 25, 2005
-----------------------------------------	-----------------------------------

Minimum Standard: CISPR 22-96

Limits For Conducted Disturbance At The Mains Ports Of Class B

Frequency Range MHz	Limits dB(µV)		Result
	Quasi-Peak	Average	
0.15 to 0.50	66 to 56	56 to 46	Complies
0.5 to 5	56	46	
5 to 30	60	50	

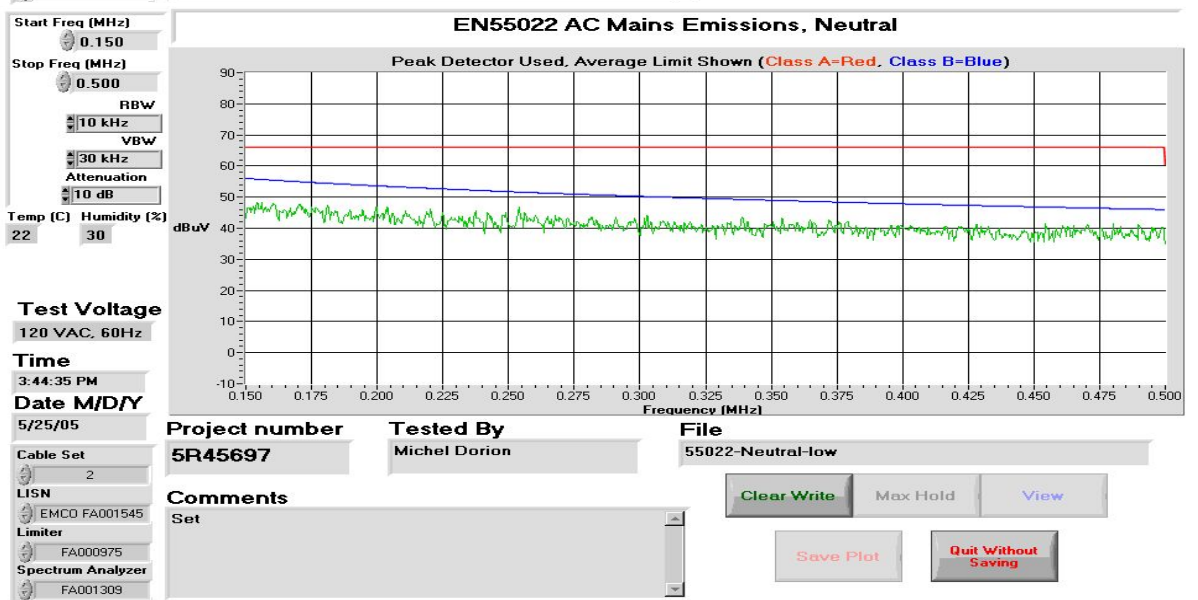
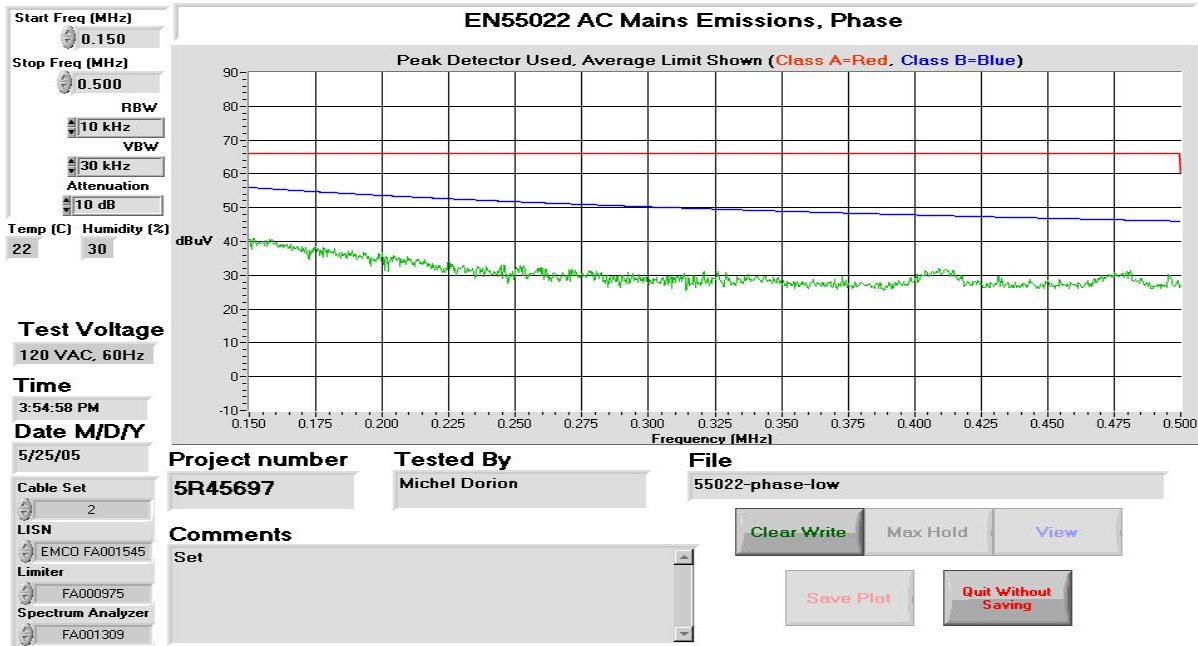
Note:
1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50MHz.

Test Results: Complied.

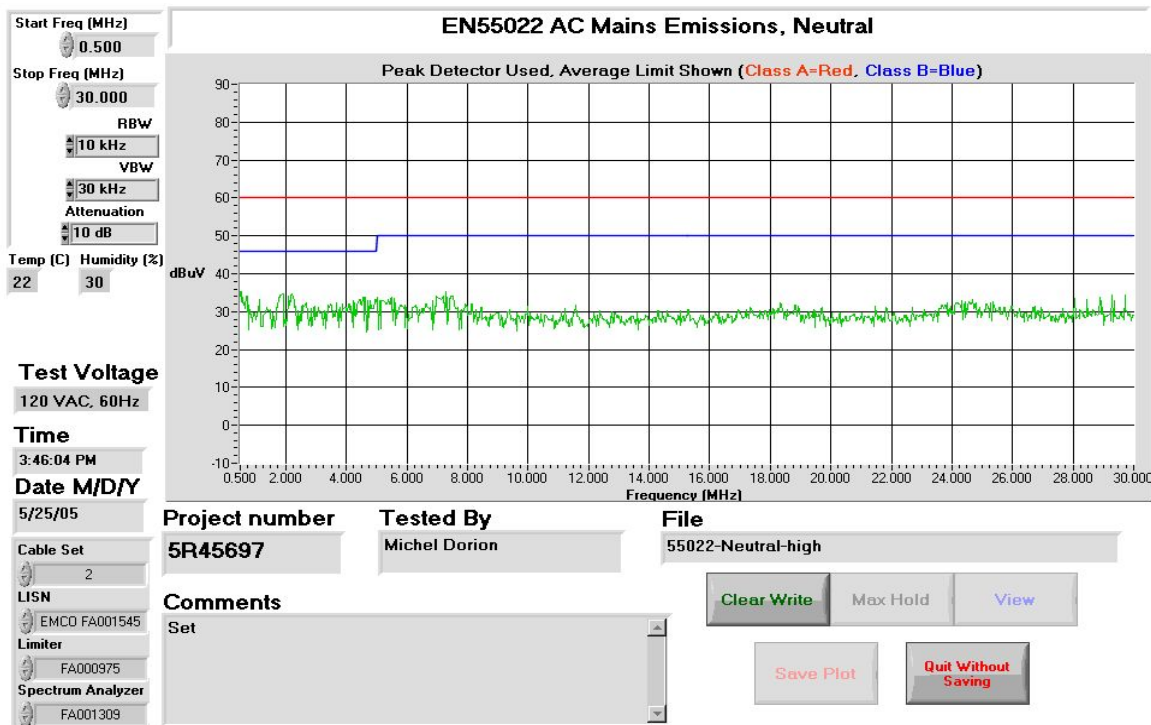
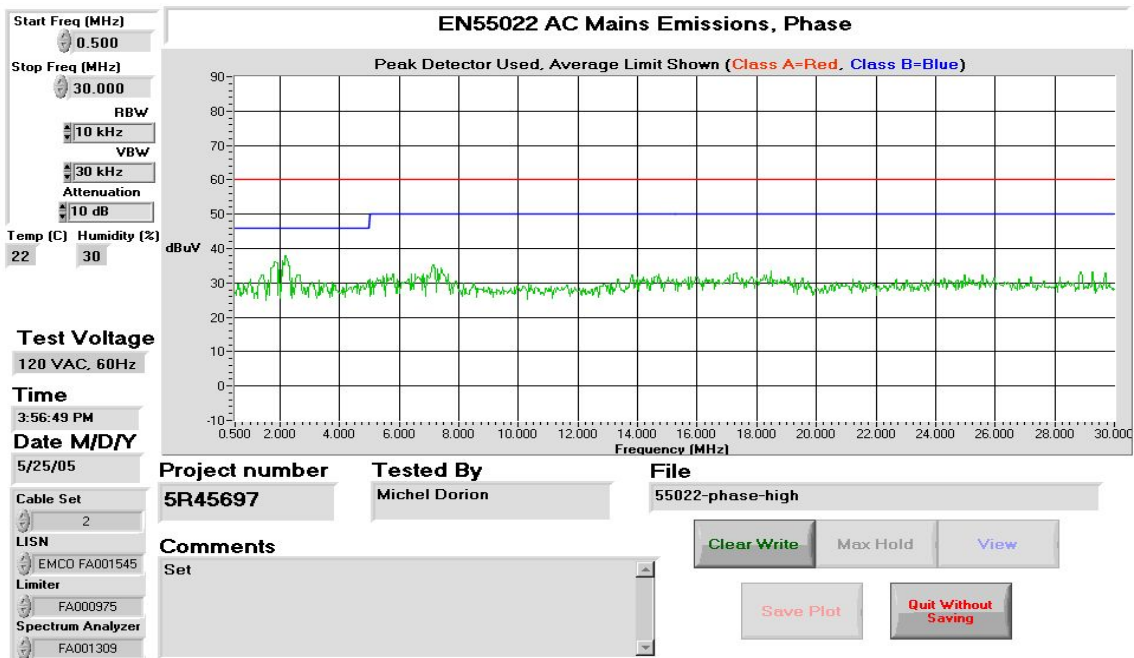
Measurement Data: See attached graph(s).

EQUIPMENT: 480i Cordless Base Station

Conducted Disturbance—Base Unit

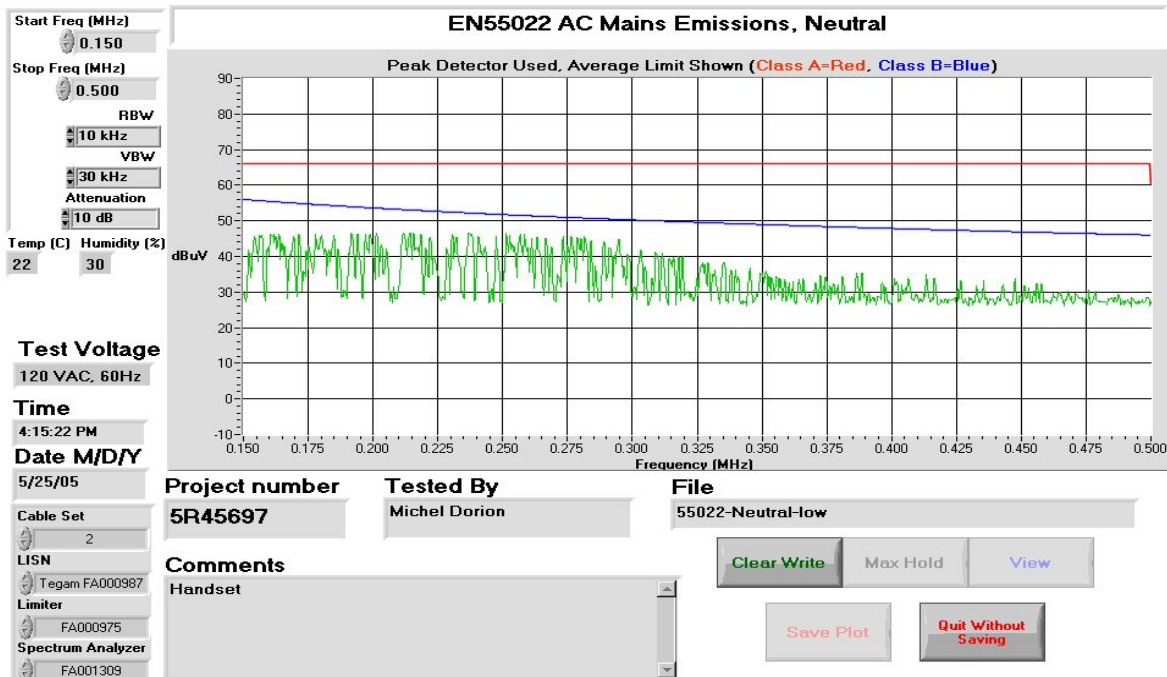
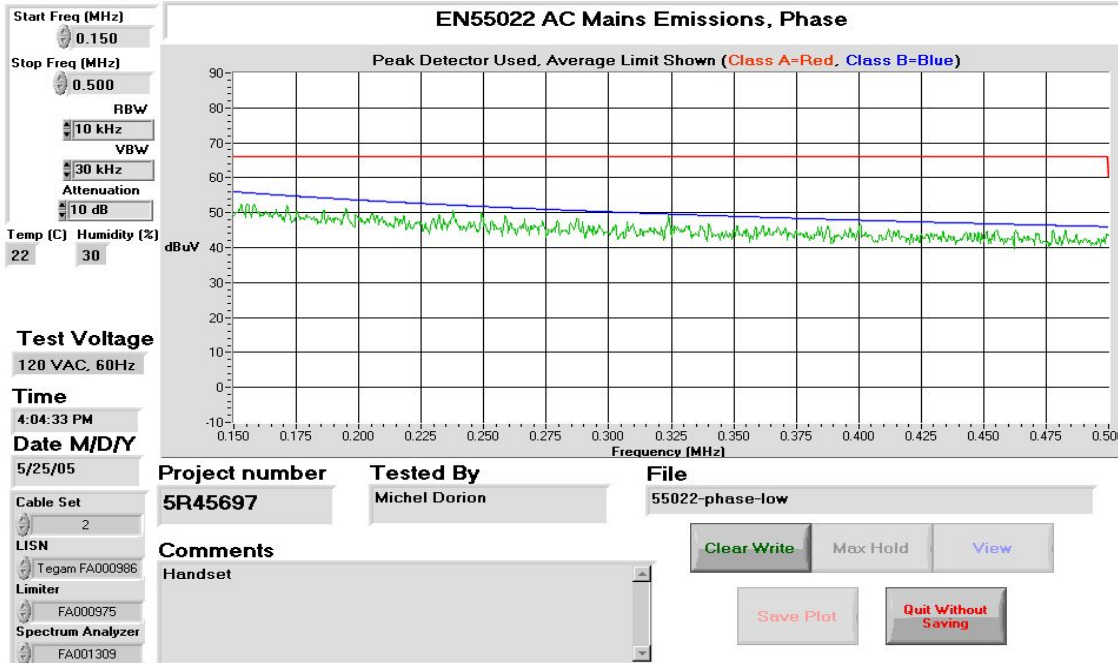


EQUIPMENT: 480i Cordless Base Station

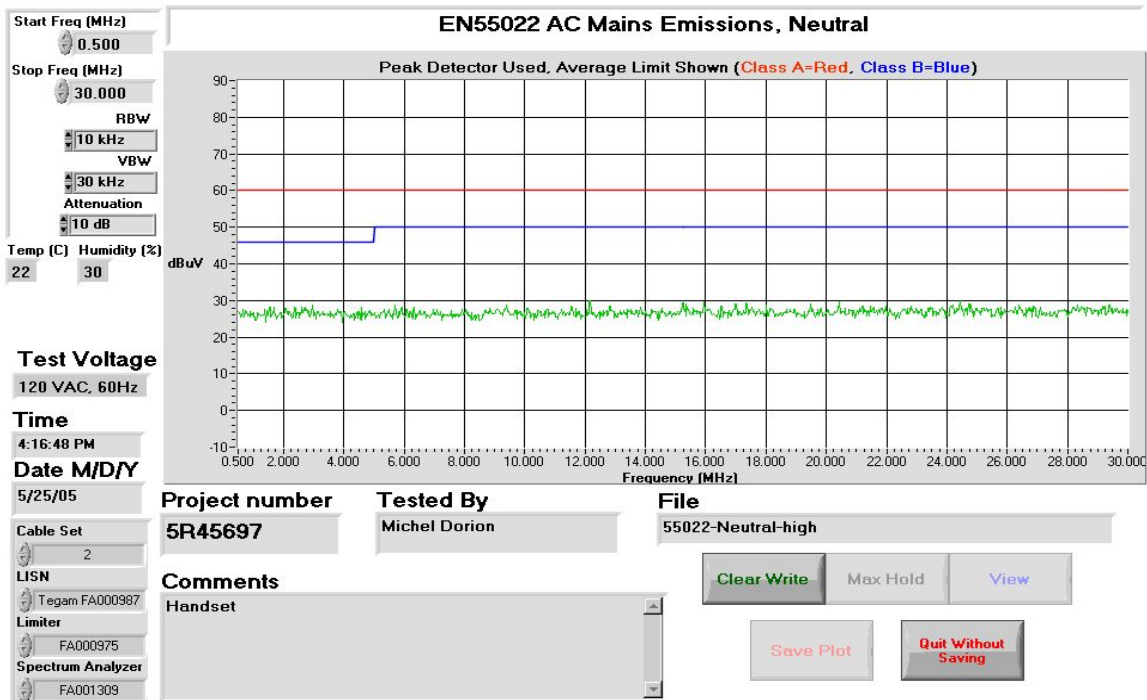
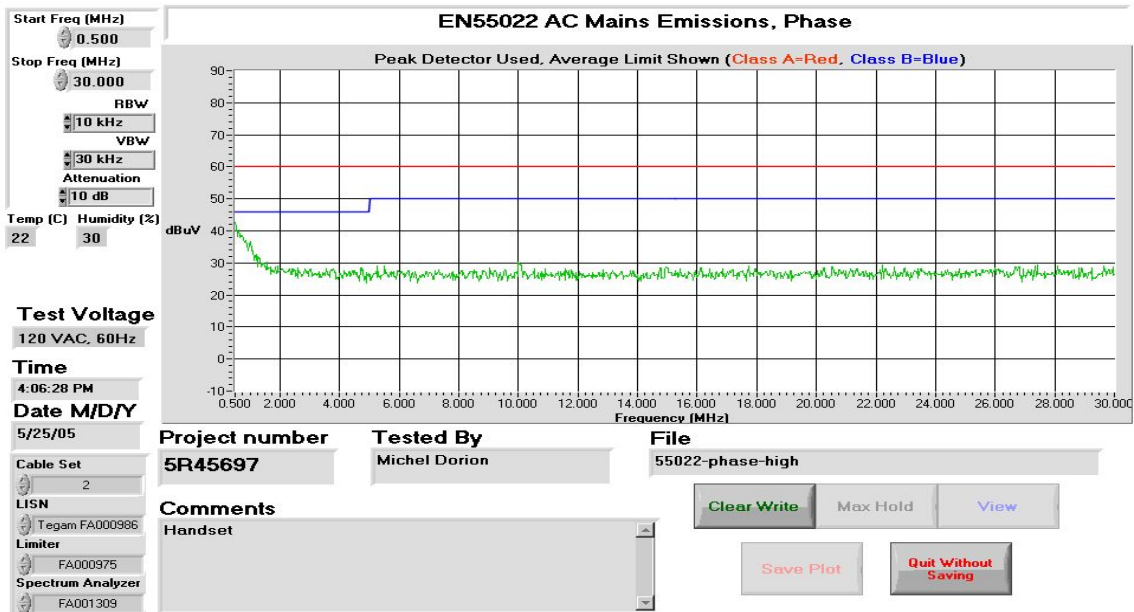


EQUIPMENT: 480i Cordless Base Station

Conducted Disturbance—Hand Unit

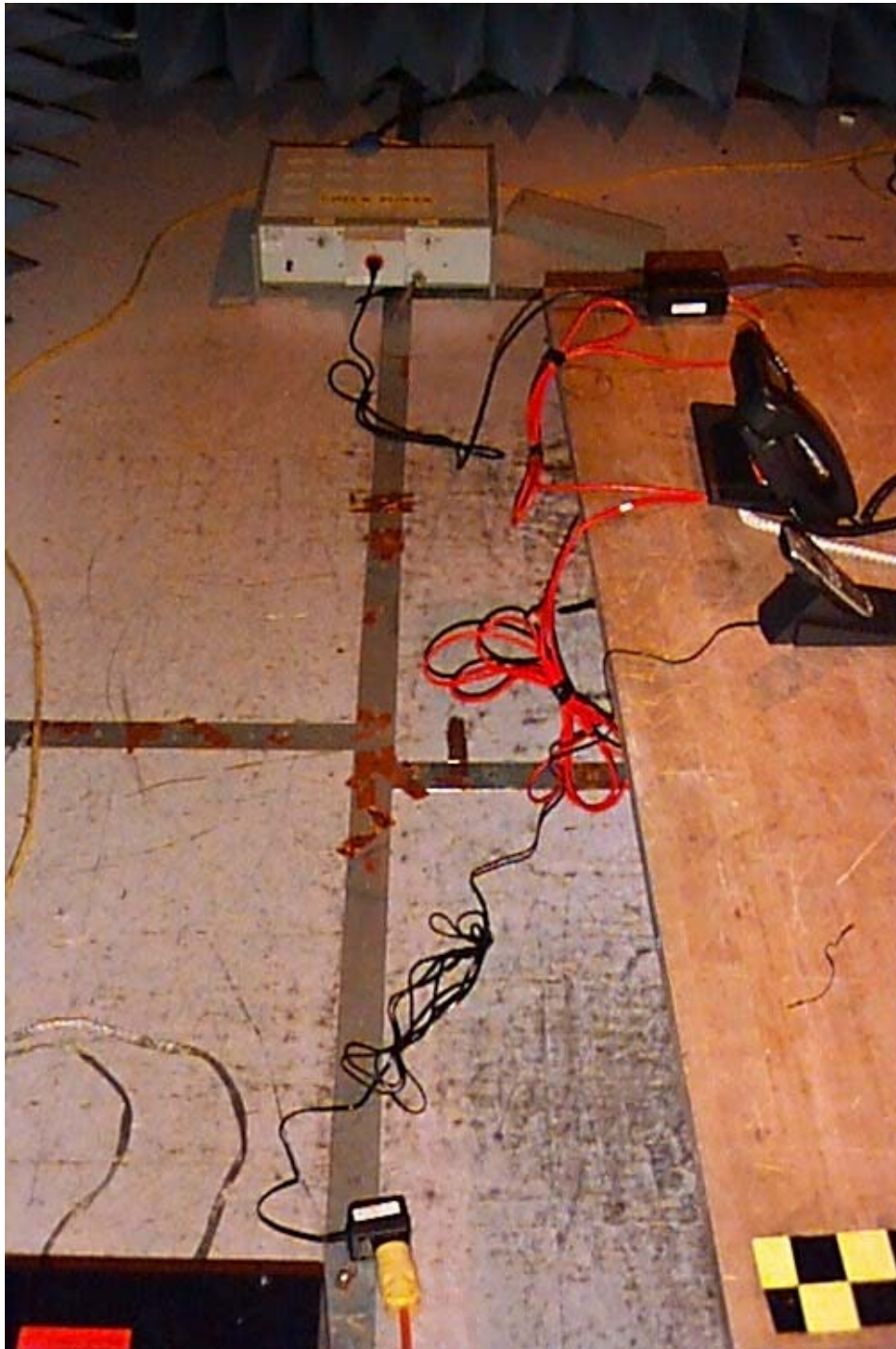


EQUIPMENT: 480i Cordless Base Station



EQUIPMENT: 480i Cordless Base Station

Test Setup Photo



EQUIPMENT: 480i Cordless Base Station

Section 4. Channel Separation

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

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: 12 May 2004 & 25 June 2004
-----------------------------------------------------------	---------------------------------------------------------

Test Results: Complied.

Measurement Data: **Minimum Channel Separation**
Base: 877 KHz, 20dB BW = 700kHz
Handset: 860 KHz. 20dB BW = 708kHz

EQUIPMENT: 480i Cordless Base Station

Section 5. Number of Hopping Channels

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

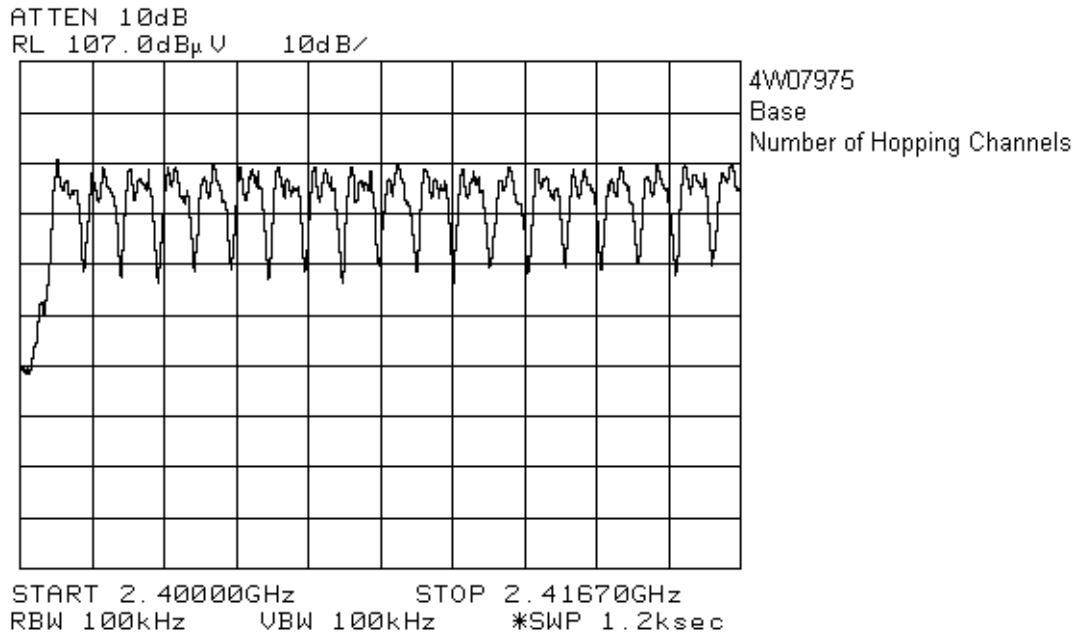
Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: 11 May 2004 & 25 June 2004
-----------------------------------------------------------	---------------------------------------------------------

Test Results: Complied

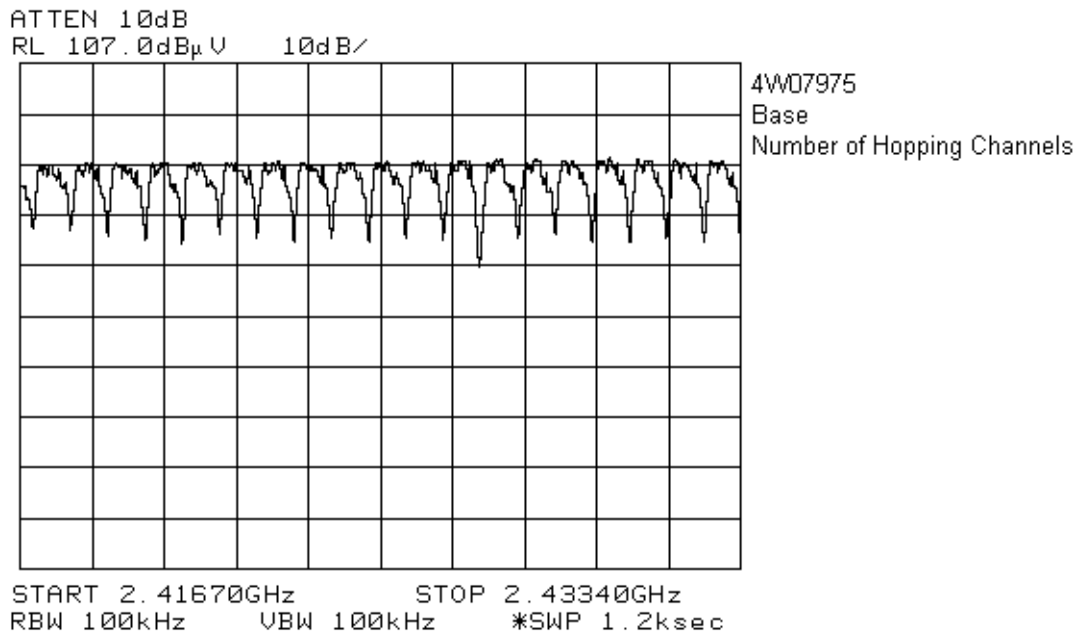
Measurement Data: Number of Hopping Channel Frequencies:
Base: 94 channels
Handset: 94 channels

EQUIPMENT: 480i Cordless Base Station

Number of Hopping Channels
Base station

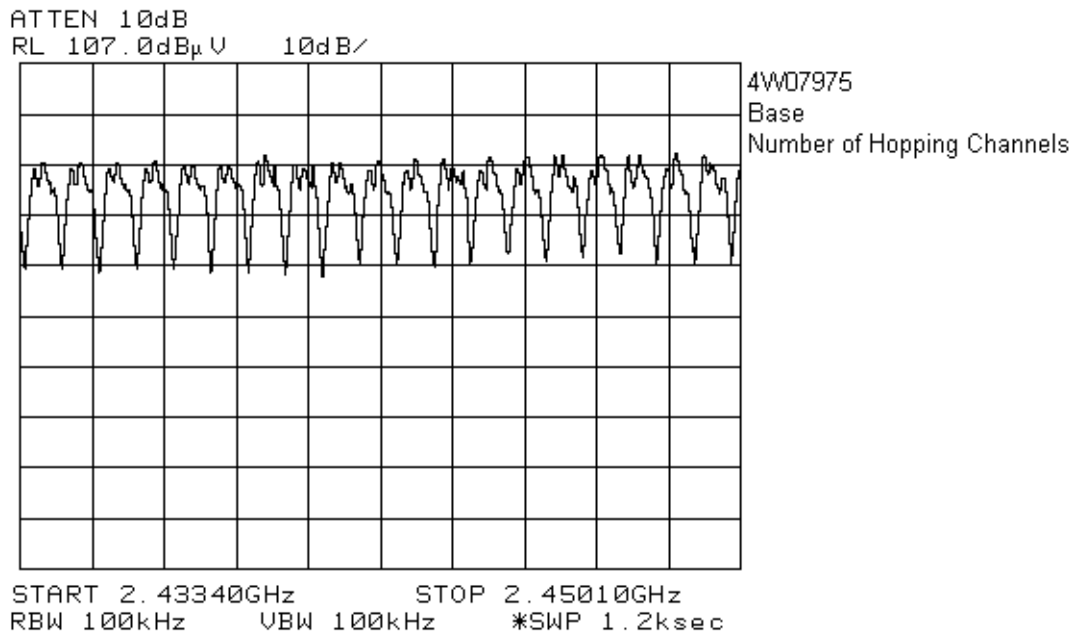


Band 1 showing 19 channels

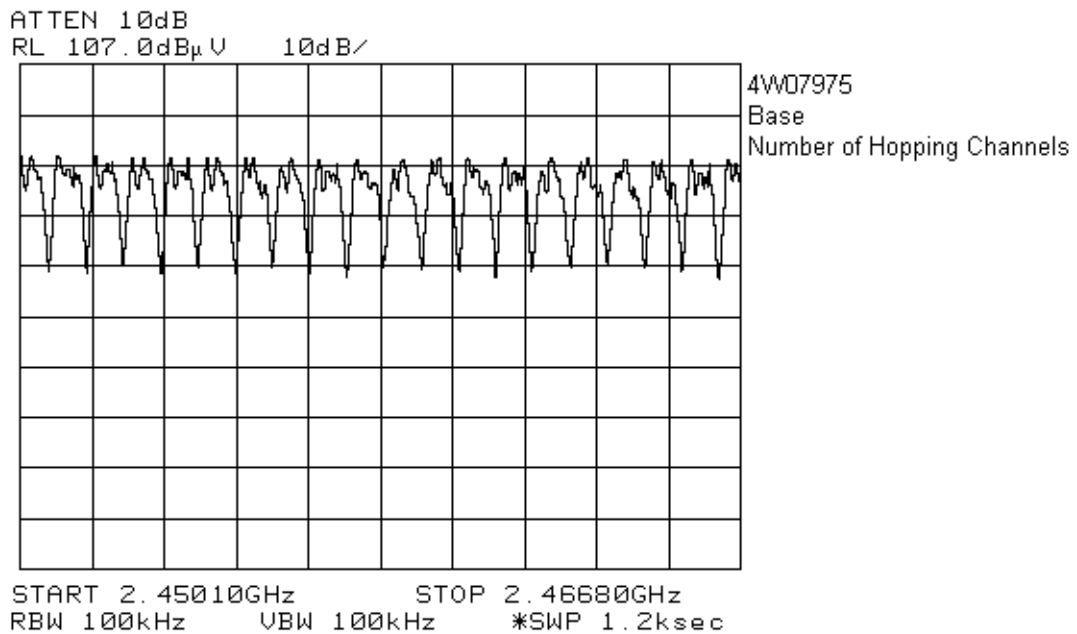


Band 2 showing 19 channels

EQUIPMENT: 480i Cordless Base Station

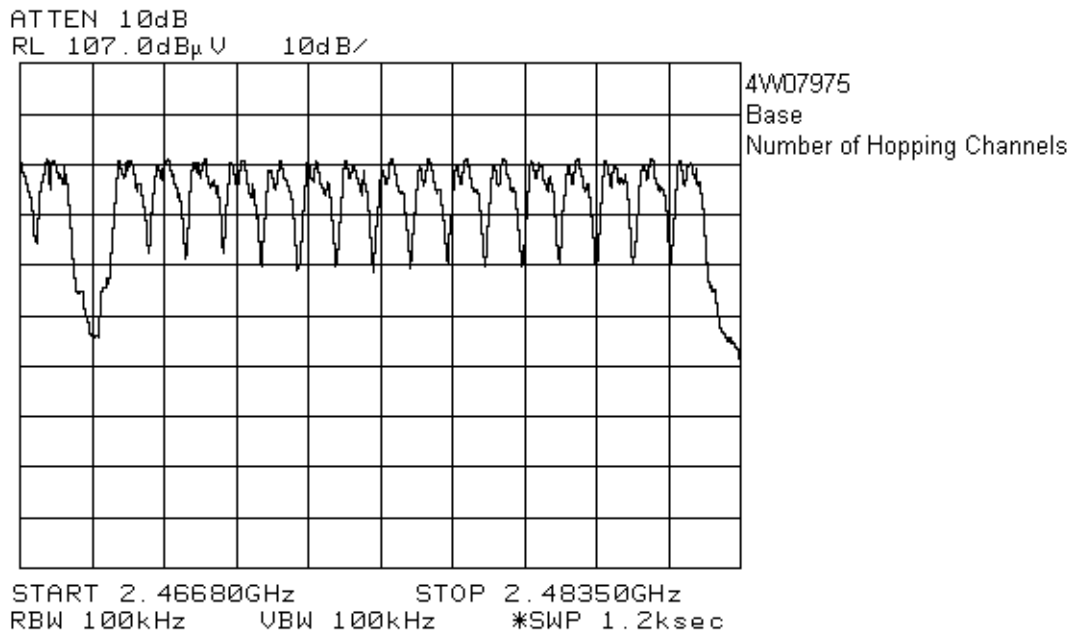


Band 3 showing 19 channels



Band 4 showing 20 channels

EQUIPMENT: 480i Cordless Base Station

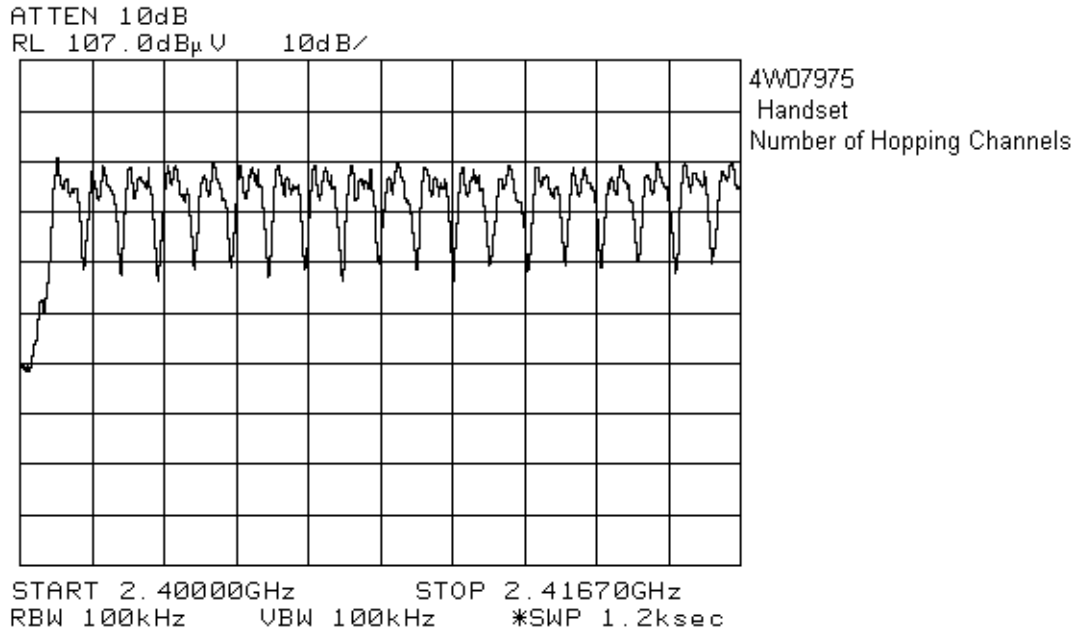


Band 5 showing 17 channels

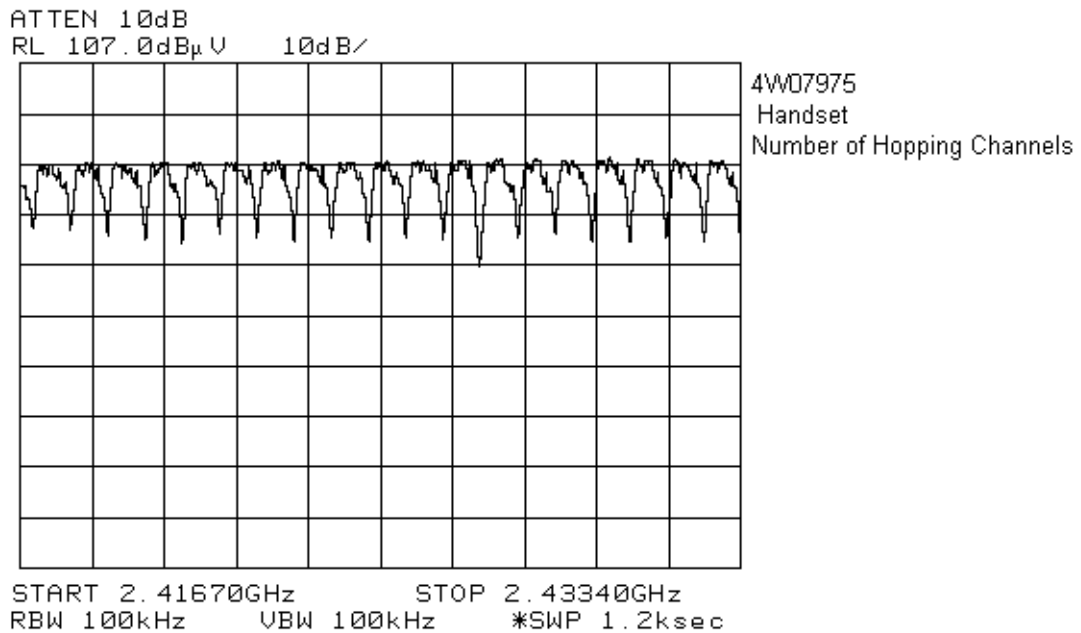
94 channels total

EQUIPMENT: 480i Cordless Base Station

Handset

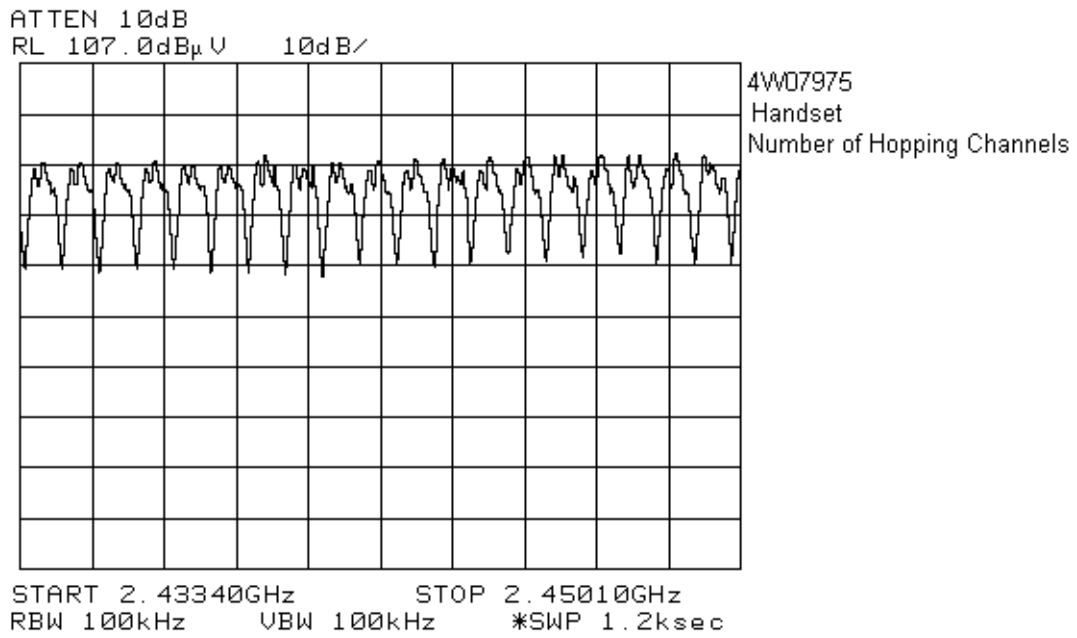


Band 1 showing 19 channels

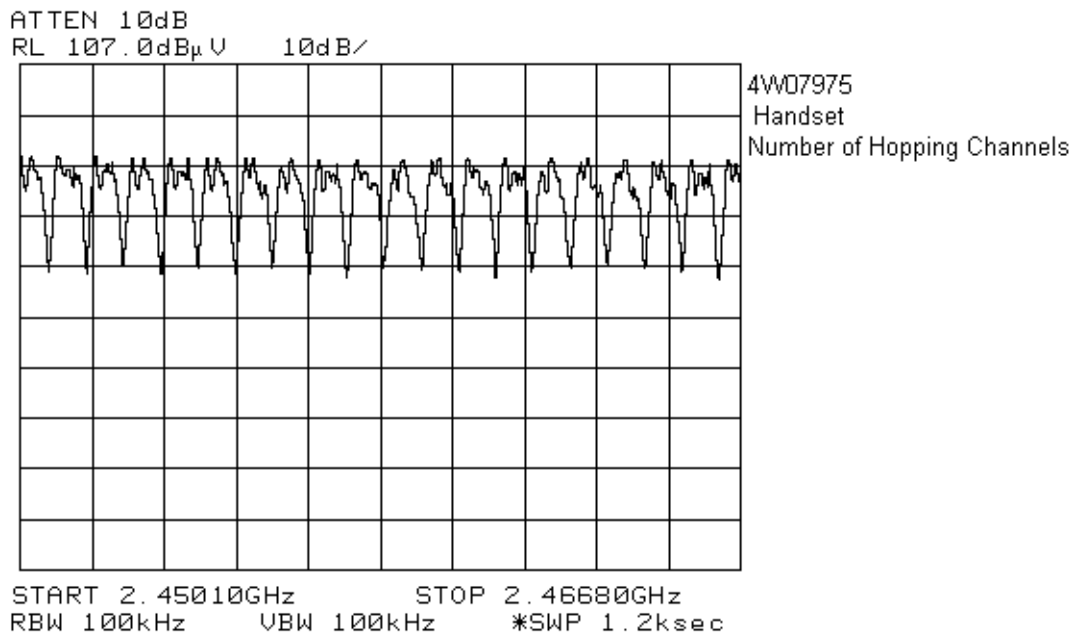


Band 2 showing 19 channels

EQUIPMENT: 480i Cordless Base Station

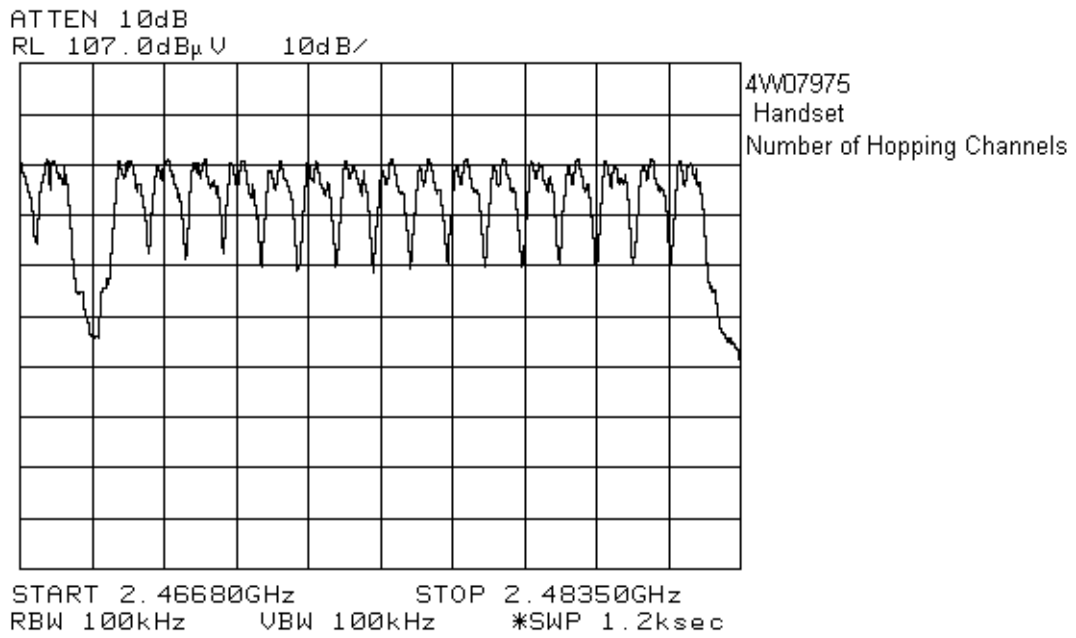


Band 3 showing 19 channels



Band 4 showing 20 channels

EQUIPMENT: 480i Cordless Base Station



Band 5 showing 17 channels

94 channels total

EQUIPMENT: 480i Cordless Base Station

Section 6. Time of Occupancy

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

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: May 11, 2004 June 12, 2004
-----------------------------------------------------------	-----------------------------------------------------

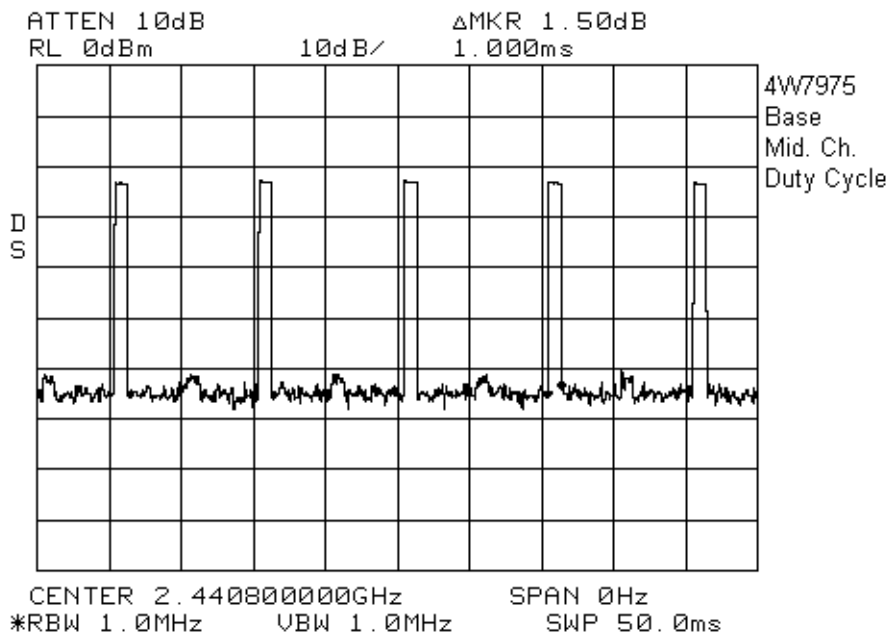
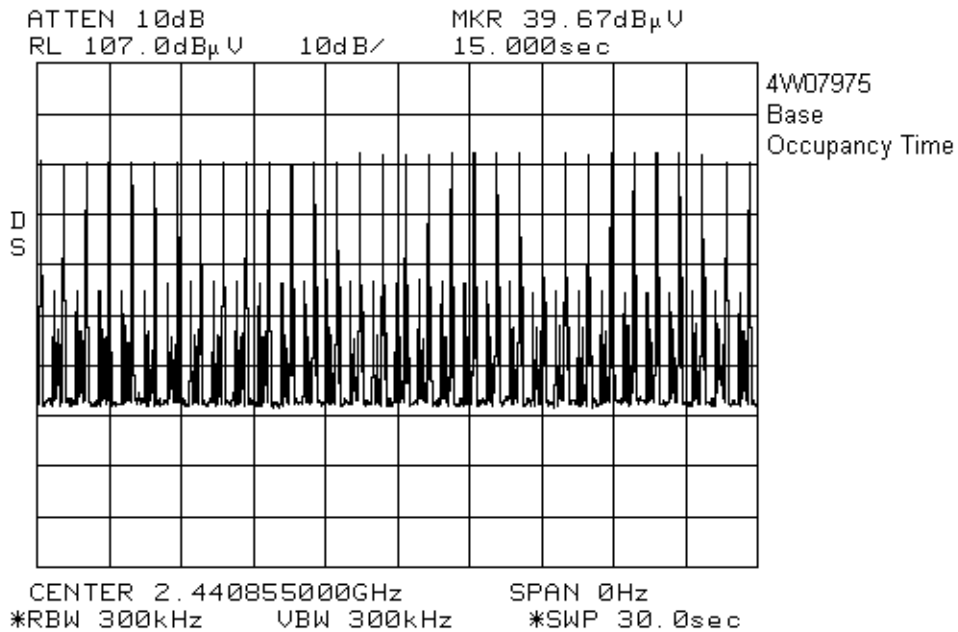
Test Results: Complies

Measurement Data: Maximum Dwell Time On Any Channel:
See Plots.

Base: 32 mSec
Handset: 25.76 mSec

EQUIPMENT: 480i Cordless Base Station

Time Of Occupancy Plots.
Base



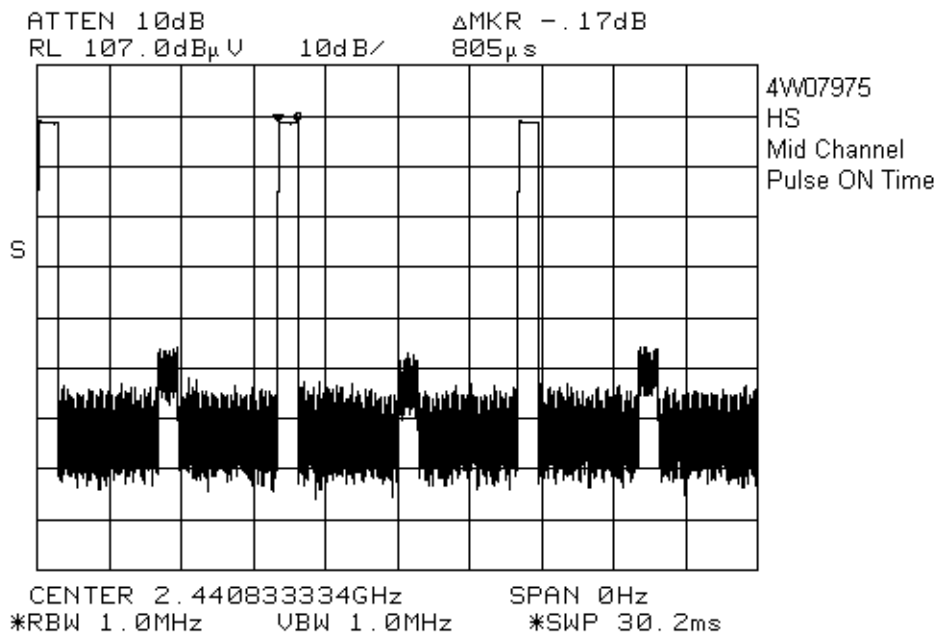
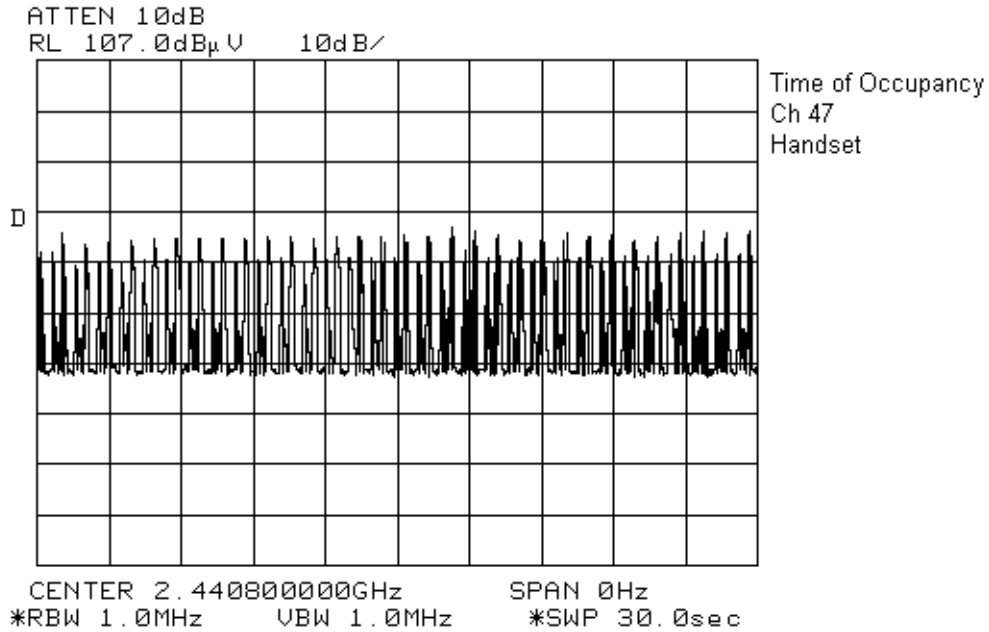
Active Slot showing 1 mSec On-Time

Time of Occupancy showing 32 hits per 30sec

32 * 1 = 32 mSec

EQUIPMENT: 480i Cordless Base Station

Handset



Active Slot showing 805 μSec On-Time

Time of Occupancy showing 32 hits per 30sec

$$32 * 0.805 = 25.76 \text{ mSec}$$

EQUIPMENT: 480i Cordless Base Station

Section 7. Occupied Bandwidth

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

Test Performed By: Kevin Carr & Daxesh Thakker	Date of Test: 12 May 2004, 25 June 2004, 18 Oct. 2004
-----------------------------------------------------------	------------------------------------------------------------------

Test Results: Complied

Measurement Data: See attached graphs.

Maximum 20 dB Bandwidth

Base: 700 KHz

Handset: 708 KHz

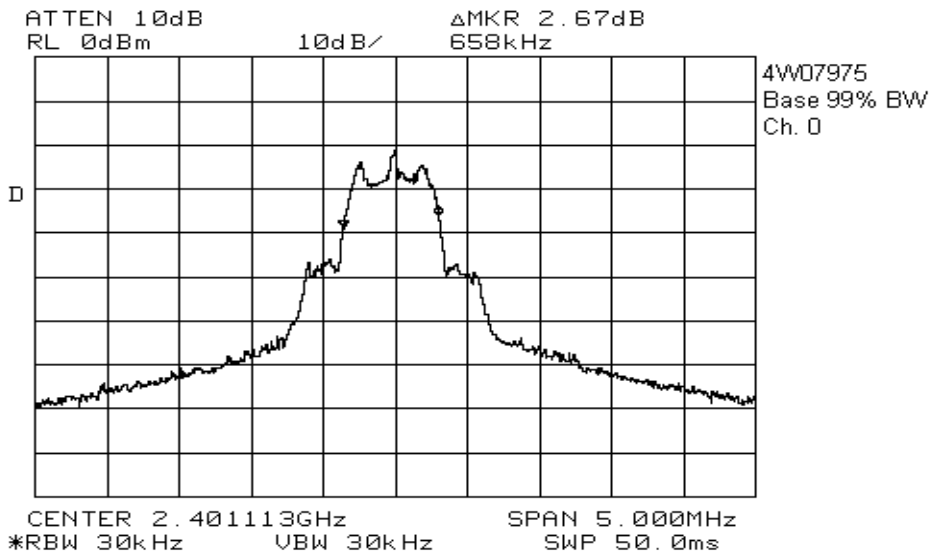
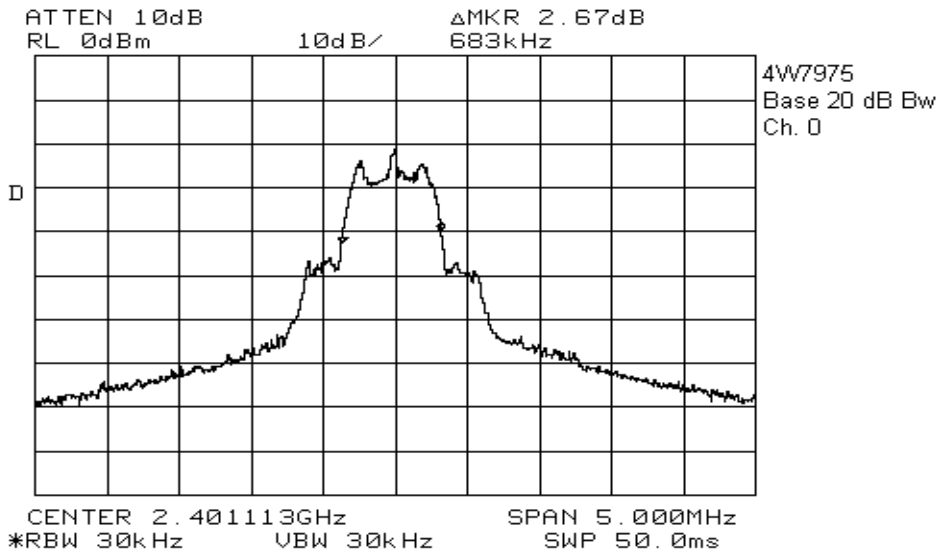
Maximum 99% Occupied Bandwidth

Base: 658 KHz

Handset: 667 KHz

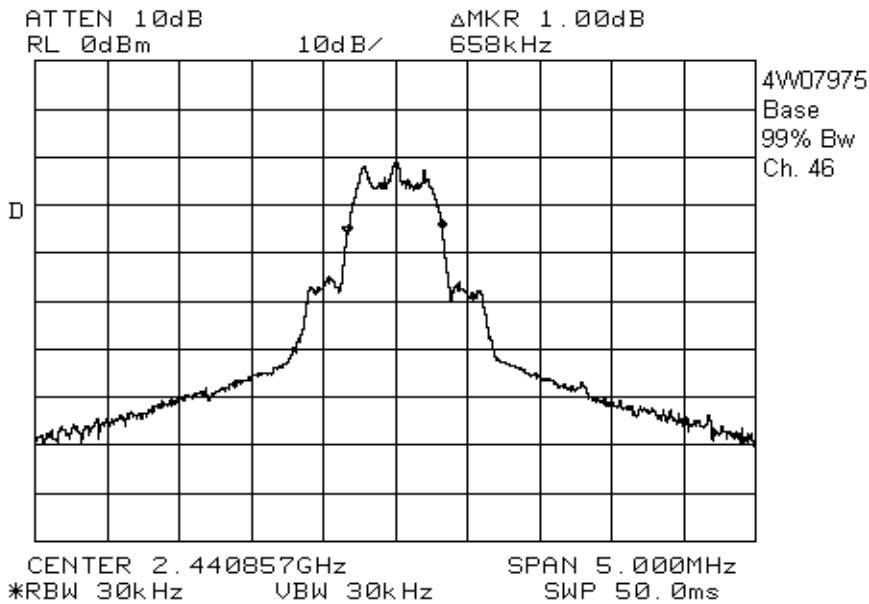
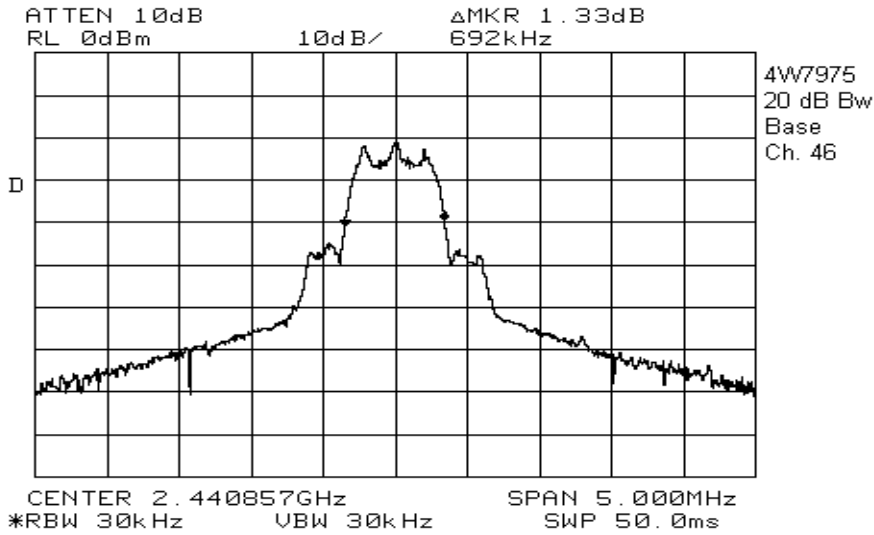
EQUIPMENT: 480i Cordless Base Station

Occupied Bandwidth Plots
Base, Low Channel



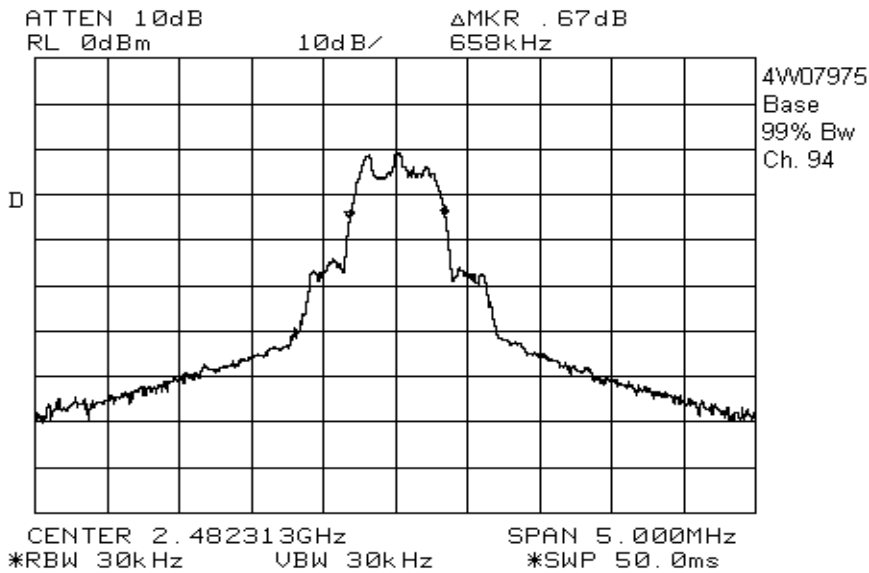
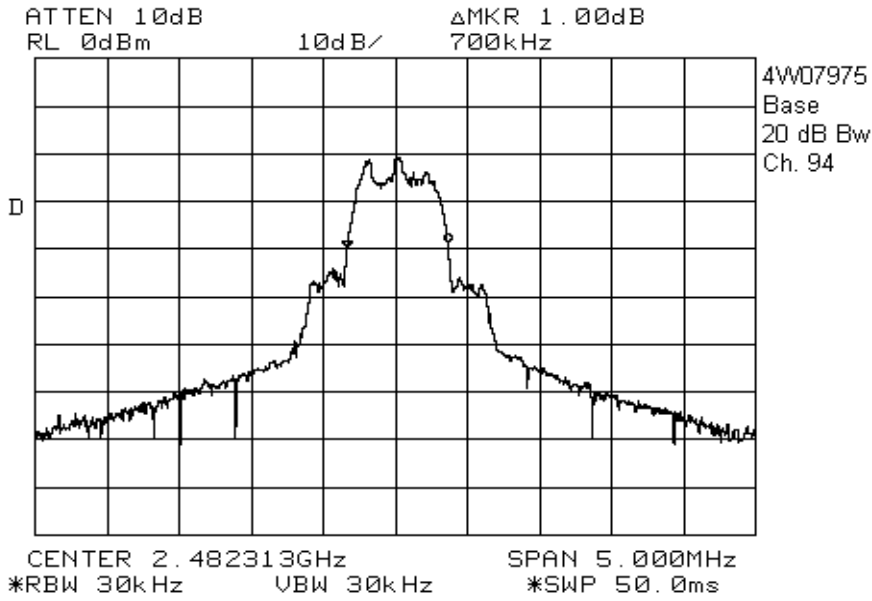
EQUIPMENT: 480i Cordless Base Station

Mid. Channel



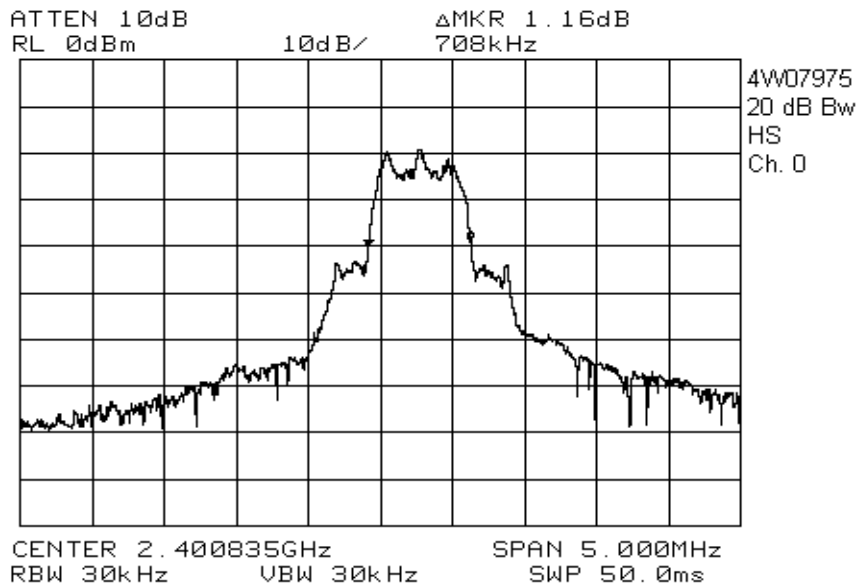
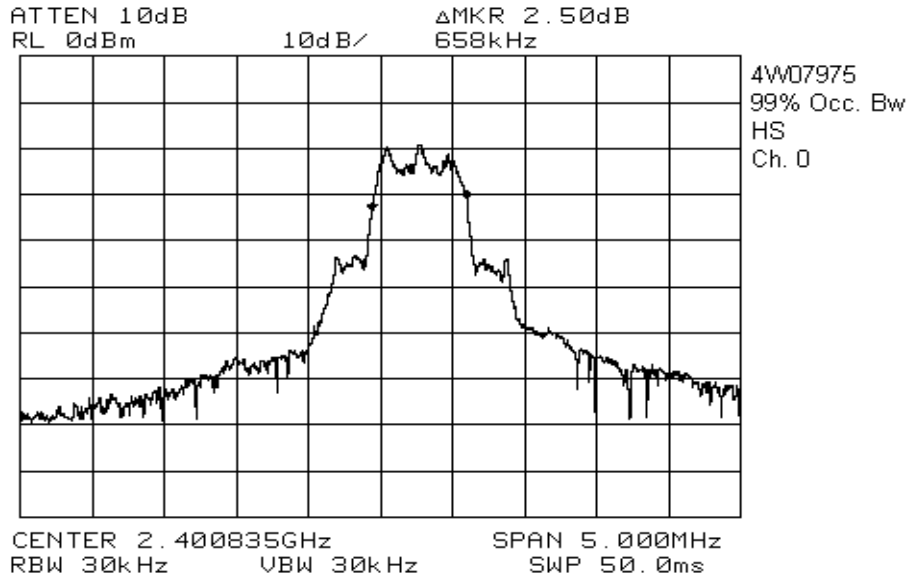
EQUIPMENT: 480i Cordless Base Station

Upper Channel



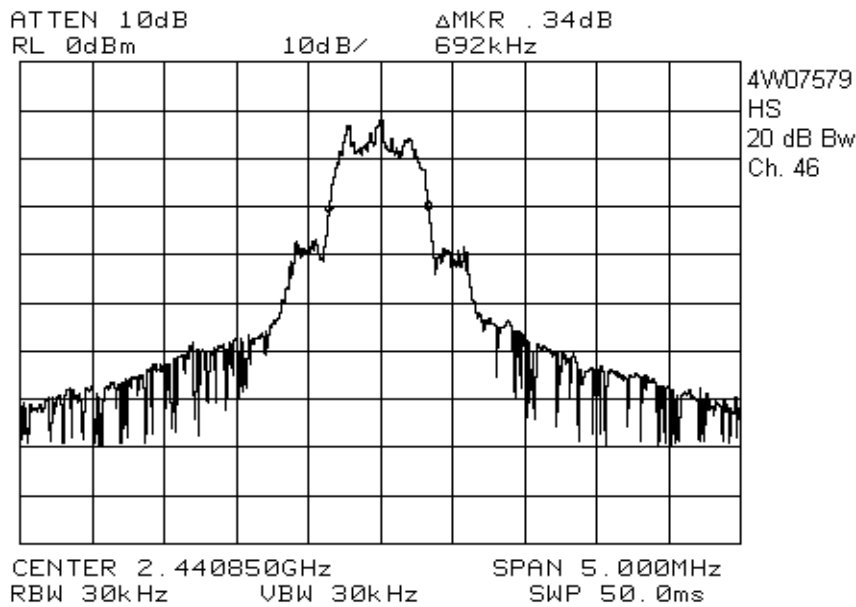
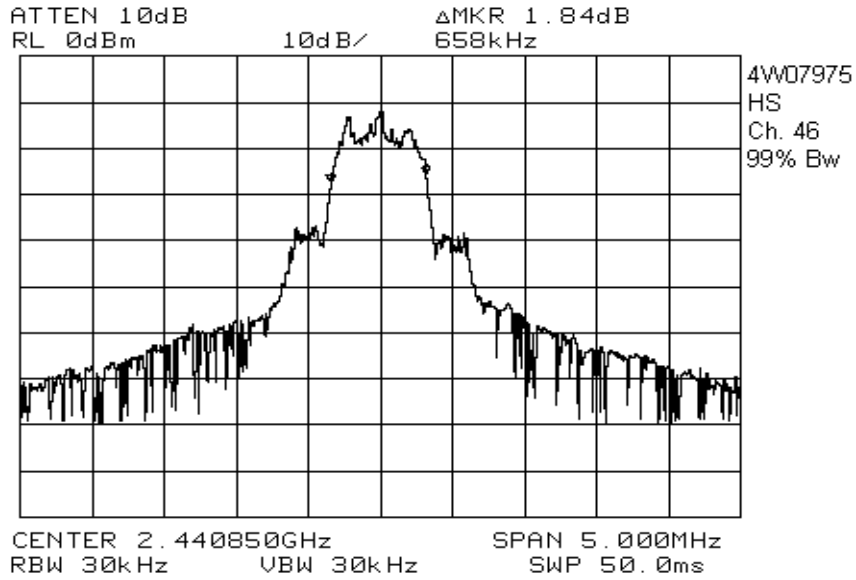
EQUIPMENT: 480i Cordless Base Station

Handset, Low channel



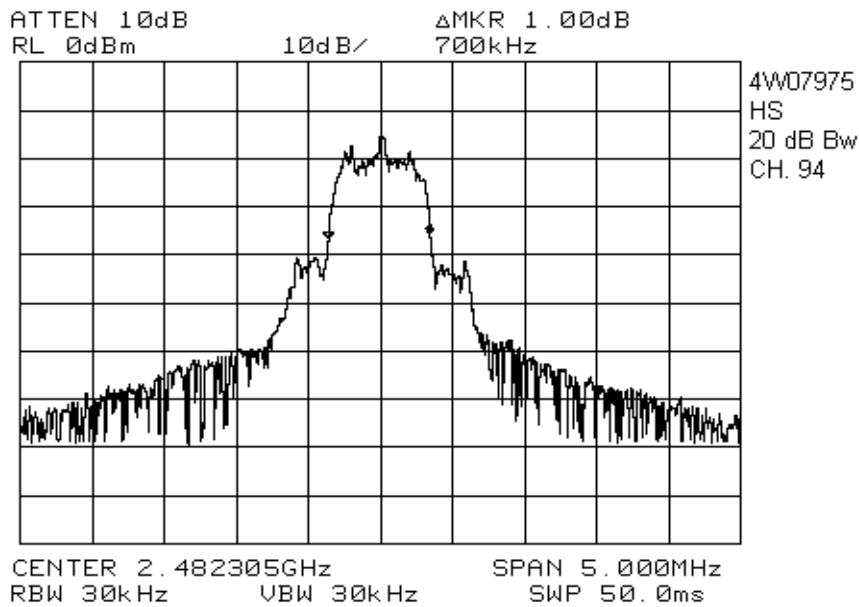
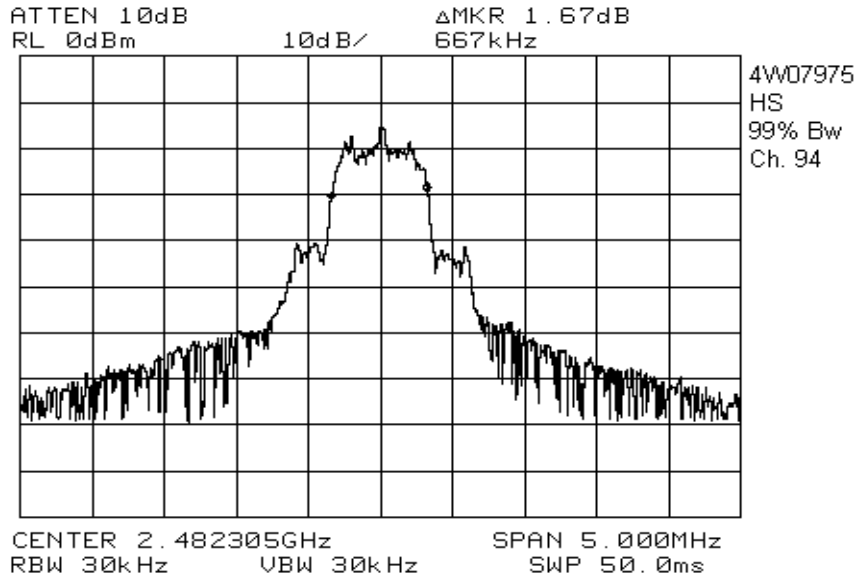
EQUIPMENT: 480i Cordless Base Station

Mid channel



EQUIPMENT: 480i Cordless Base Station

Upper channel



EQUIPMENT: 480i Cordless Base Station

Section 8. Peak Power Output

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

Test Performed By: Daxesh Thakker	Date of Test: 24 June 2004
Xu Jin	Date of Test: 16, June 2005

Standards Limits: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Test Results: Complied.

The maximum peak power output of the transmitter is calculated with the equation $P = \{E^2R^2/30G\}$, where

	E, V/mtr @ 3m	R, mtr	G
Base	0.97	3	1.41
Handset	1.49	3	2.81

Base = 0.2W, 23.01dBm
 Handset = 0.238W, 23.77dBm

The Base Station was tested at +/- 15% of AC line voltage. No change in power level was observed.

The Handset was tested with a fresh battery.

This EUT was searched in 3 orthogonal axes to determine worst-case emissions.

EQUIPMENT: 480i Cordless Base Station

Measurement Data: Detachable antenna? Yes No
 If yes, state the type of non-standard connector used at the antenna port:

Directional Gain of Antenna:
 Base: 1.5 dBi or 1.41 Numeric.
 Handset: 4.5 dBi or 2.81 Numeric.

Base (worst Case)
 Field Strength: 119.7 dBµV/m @ 3m or 0.97 V/m @ 3m.

Handset (worst Case)
 Field Strength: 123.5 dBµV/m @ 3m or 1.49 V/m @ 3m.

Radiated Emissions Test Data:

Test Date: 16 June, 2005																																																															
Engineer's Name: Xu Jin																																																															
Base Station fundamental																																																															
Tested as per (Table Top/Floor Standing): Table Top																																																															
Test Distance (meters): 3					Range: 1																																																										
<table border="1"> <thead> <tr> <th>Freq. (MHz)</th> <th>Ant.</th> <th>Pol. V/H</th> <th>RCVD Signal (dBµV)</th> <th>Ant. Factor (dB)</th> <th>Cable Loss (dB)</th> <th>Field Strength (dBµV/m)</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>2401.0560</td> <td>Horn1</td> <td>H</td> <td>85.3</td> <td>28.8</td> <td>5.2</td> <td>119.3</td> <td>Peak</td> </tr> <tr> <td>2401.0560</td> <td>Horn1</td> <td>V</td> <td>82.4</td> <td>28.8</td> <td>5.2</td> <td>116.4</td> <td>Peak</td> </tr> <tr> <td>2440.8000</td> <td>Horn1</td> <td>V</td> <td>84.2</td> <td>28.8</td> <td>5.8</td> <td>118.8</td> <td>Peak</td> </tr> <tr> <td>2440.8000</td> <td>Horn1</td> <td>H</td> <td>85.1</td> <td>28.8</td> <td>5.8</td> <td>119.7</td> <td>Peak</td> </tr> <tr> <td>2482.2720</td> <td>Horn1</td> <td>H</td> <td>82.4</td> <td>28.8</td> <td>6.4</td> <td>117.6</td> <td>Peak</td> </tr> <tr> <td>2482.2720</td> <td>Horn1</td> <td>V</td> <td>83.7</td> <td>28.8</td> <td>6.4</td> <td>118.9</td> <td>Peak</td> </tr> </tbody> </table>								Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Detector	2401.0560	Horn1	H	85.3	28.8	5.2	119.3	Peak	2401.0560	Horn1	V	82.4	28.8	5.2	116.4	Peak	2440.8000	Horn1	V	84.2	28.8	5.8	118.8	Peak	2440.8000	Horn1	H	85.1	28.8	5.8	119.7	Peak	2482.2720	Horn1	H	82.4	28.8	6.4	117.6	Peak	2482.2720	Horn1	V	83.7	28.8	6.4	118.9	Peak
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Detector																																																								
2401.0560	Horn1	H	85.3	28.8	5.2	119.3	Peak																																																								
2401.0560	Horn1	V	82.4	28.8	5.2	116.4	Peak																																																								
2440.8000	Horn1	V	84.2	28.8	5.8	118.8	Peak																																																								
2440.8000	Horn1	H	85.1	28.8	5.8	119.7	Peak																																																								
2482.2720	Horn1	H	82.4	28.8	6.4	117.6	Peak																																																								
2482.2720	Horn1	V	83.7	28.8	6.4	118.9	Peak																																																								
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW Below 1GHz, Peak detector with 100 kHz RBW, 100KHz VBW Above 1GHz, Peak detector with 1.0MHz RBW, 1.0MHz VBW																																																															

EQUIPMENT: 480i Cordless Base Station

Test Date: 24 June, 2004						
Engineer's Name: Daxesh Thakker						
Handset fundamental						
Tested as per (Table Top/Floor Standing): Table Top						
Test Distance (meters): 3				Range: 1		
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBμV)	Ant. Factor (dB)	Cable Loss (dB)	Field Strength (dBμV/m)
2401.1530	Horn1	V	82.0	29.2	4.8	116.0
2401.1530	Horn1	H	86.9	29.2	4.8	120.9
2440.9200	Horn1	V	81.5	29.2	5.3	116.0
2440.9200	Horn1	H	86.5	29.2	5.3	121.0
2482.2820	Horn1	V	77.6	29.2	5.9	112.7
2482.2820	Horn1	H	88.4	29.2	5.9	123.5
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW						
Notes:		Measurement Receiver = H.P.8565E, RBW = 1MHz				

EQUIPMENT: 480i Cordless Base Station

Section 9. Spurious Emissions (Radiated)

Para. No.: 15.247 (c)

Test Performed By: Phil Taffinder & Daxesh Thakker	Date of Test: 19 April 2004 & 10 June 2004 June 16, 2005
Xu Jin	

Test Results: Complied.

Test Data: See attached table.

Duty Cycle Calculation:

Base: $20\text{Log}\{(10 \times 0.8)/100\} = -21.94\text{dB}$.

Handset: $20\text{Log}\{(10 \times 0.805)/100\} = -38.11\text{dB}$, Max. allowed -20 dB.

Note:

The Spectrum was searched from 30MHz to 25GHz.

These results apply to emissions found in the restricted bands defined in FCC Part 15 Subpart C, 15.205.

The EUT was measured on three orthogonal axis.

Average measurements were calculated using the duty cycle correction factor and the peak measurement.

Only emissions within 20dB below the limit have been reported

EQUIPMENT: 480i Cordless Base Station

Radiated Disturbance Test Data: Base station

Test Date: 16 June, 2005											
Engineer's Name: Xu Jin											
Tested as per (Table Top/Floor Standing): Table Top											
Test Distance (meters): 3							Range: 1				
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBμV)	Ant. Factor (dB)	Amp. Gain (dB)	Duty Cycle Corr. Factor (dB)	Cable Loss (dB)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Ch. 00											
4802.1120	Horn1	V	71.0	33.4	53.2	-21.9	7.3	36.6	54.0	17.4	Average
								58.5	74.0	15.5	Peak
4802.1120	Horn1	H	69.5	33.5	53.2	-21.9	7.3	35.2	54.0	18.8	Average
								57.1	74.0	16.9	Peak
7203.1680	Horn1	H	61.4	36.7	53.7	-21.9	11.0	33.5	54.0	20.5	Average
								55.4	74.0	18.6	Peak
7203.1680	Horn1	V	60.7	36.5	53.7	-21.9	11.0	32.5	54.0	21.5	Average
								54.4	74	19.6	Peak
Ch. 47											
4881.6000	Horn1	V	71.1	33.4	52.6	-21.9	8.0	38.0	54.0	16.0	Average
								59.9	74.0	14.1	Peak
4881.6000	Horn1	H	68.2	33.5	52.6	-21.9	8.0	35.2	54.0	18.8	Average
								57.1	74.0	16.9	Peak
7322.4000	Horn1	H	62.7	36.7	53.7	-21.9	10.0	33.8	54.0	20.2	Average
								55.7	74.0	18.3	Peak
7322.4000	Horn1	V	64.1	36.5	53.7	-21.9	10.0	35.0	54.0	19.0	Average
								56.9	74.0	17.1	Peak
Ch. 94											
4964.5440	Horn1	V	65.3	33.4	52.3	-21.9	8.4	32.9	54.0	21.1	Average
								54.8	74.0	19.2	Peak
4964.5440	Horn1	H	67.5	33.5	52.3	-21.9	8.4	35.2	54.0	18.8	Average
								57.1	74.0	16.9	Peak
7446.8160	Horn1	H	63.6	36.7	53.2	-21.9	8.9	34.1	54.0	19.9	Average
								56.0	74.0	18.0	Peak
7446.8160	Horn1	V	64.1	36.5	53.2	-21.9	8.9	34.4	54.0	19.6	Average
								56.3	74.0	17.7	Peak
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW Below 1GHz, Peak detector with 100 kHz RBW, 100KHz VBW Above 1GHz, Peak detector with 1.0MHz RBW, 1.0MHz VBW											

EQUIPMENT: 480i Cordless Base Station

Radiated Disturbance Test Data: Handset

Test Date: 24 June, 2004											
Engineer's Name: Daxesh Thakker											
Tested as per (Table Top/Floor Standing): Table Top											
Test Distance (meters): 3						Range: 1					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBµV)	Ant. Factor (dB)	Amp. Gain (dB)	Duty Cycle Corr. Factor (dB)	Cable Loss (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Amp.
Ch. 00											
4802.2110	Horn1	V	62.8	34.3	53.2	-20.0	8.1	32.0	54.0	22.0	4-8GHz
4802.2110	Horn1	H	61.4	34.1	53.2	-20.0	8.1	30.4	54.0	23.6	4-8GHz
7203.3170	Horn1	V	67.5	36.5	53.7	-20.0	11.3	41.6	54.0	12.4	4-8GHz
7203.3170	Horn1	H	63.9	36.5	53.7	-20.0	11.3	38.0	54.0	16.0	4-8GHz
Ch. 47											
4842.0250	Horn1	V	59.6	34.3	52.9	-20.0	8.5	29.5	54.0	24.5	4-8GHz
4842.0250	Horn1	H	60.4	34.2	52.9	-20.0	8.5	30.1	54.0	23.9	4-8GHz
7243.1310	Horn1	V	60.5	36.5	53.7	-20.0	11.2	34.6	54.0	19.4	4-8GHz
7243.1310	Horn1	H	60.6	36.5	53.7	-20.0	11.2	34.6	54.0	19.4	4-8GHz
Ch. 94											
4964.5000	Horn1	V	60.0	34.4	52.3	-20.0	9.5	31.5	54.0	22.5	4-8GHz
4964.5000	Horn1	H	60.0	34.2	52.3	-20.0	9.5	31.3	54.0	22.7	4-8GHz
7446.7500	Horn1	V	60.3	36.5	53.2	-20.0	11.1	34.8	54.0	19.2	4-8GHz
7446.7500	Horn1	H	60.6	36.5	53.2	-20.0	11.1	35.1	54.0	18.9	4-8GHz
Note 1: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole											
Note 2: Detector Legend: Q-Peak = 120 kHz RBW, Average = 1.0 MHz RBW											
Note 3: The EUT was searched up to 10 harmonics of the fundamental.											
Notes:		Measurement Receiver = H.P.8565E, RBW = 1MHz									

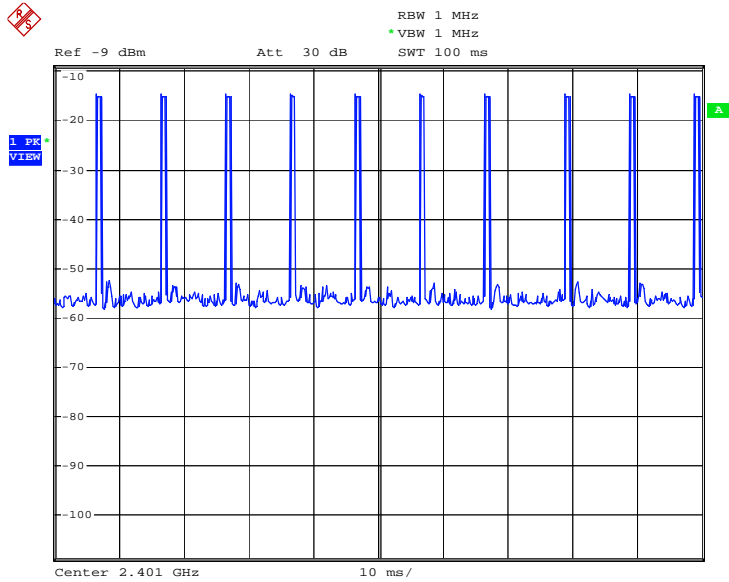
EQUIPMENT: 480i Cordless Base Station

Digital Emissions

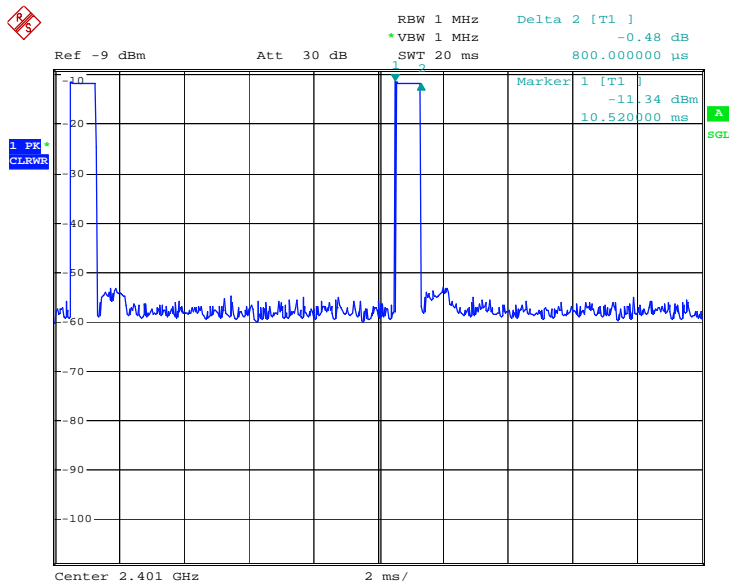
Test Date: 01-June-2005											
Engineer's Name: Michel Dorion											
Tested as per: Table Top											
Mains Input Voltage: 120 VAC						Mains Input Frequency: 60 Hz					
Enclosure Investigation Data											
Test Distance (meters): 3						Dome: 2					
Freq. (MHz)	Ant.	Pol. V/H	RCVD Signal (dBμV)	Ant. Factor (dB)	Amp. Gain (dB)	Cable Loss (dB)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Amp.
499.9820	LP1	V	22.7	17.6	N/A	4.1	44.4	46.0	1.6	Q-Peak	N/A
599.9792	LP1	V	19.8	18.8	N/A	4.5	43.1	46.0	2.9	Q-Peak	N/A
599.9810	LP1	H	18.7	19.8	N/A	4.5	43.0	46.0	3.0	Q-Peak	N/A
699.9748	LP1	V	18.1	21.0	N/A	4.9	44.0	46.0	2.0	Q-Peak	N/A
699.9777	LP1	H	16.8	21.2	N/A	4.9	42.9	46.0	3.1	Q-Peak	N/A
799.9725	LP1	H	15.6	22.5	N/A	5.2	43.3	46.0	2.7	Q-Peak	N/A
Legend: Antenna Legend: BC = Biconical, BL = Bilog, LP = Log-Periodic, Horn = Horn, ED = EMCO Dipole Detector Legend: Q-Peak = 120kHz RBW, Average = 1.0MHz RBW											

EQUIPMENT: 480i Cordless Base Station

Duty Cycle Plots Base station



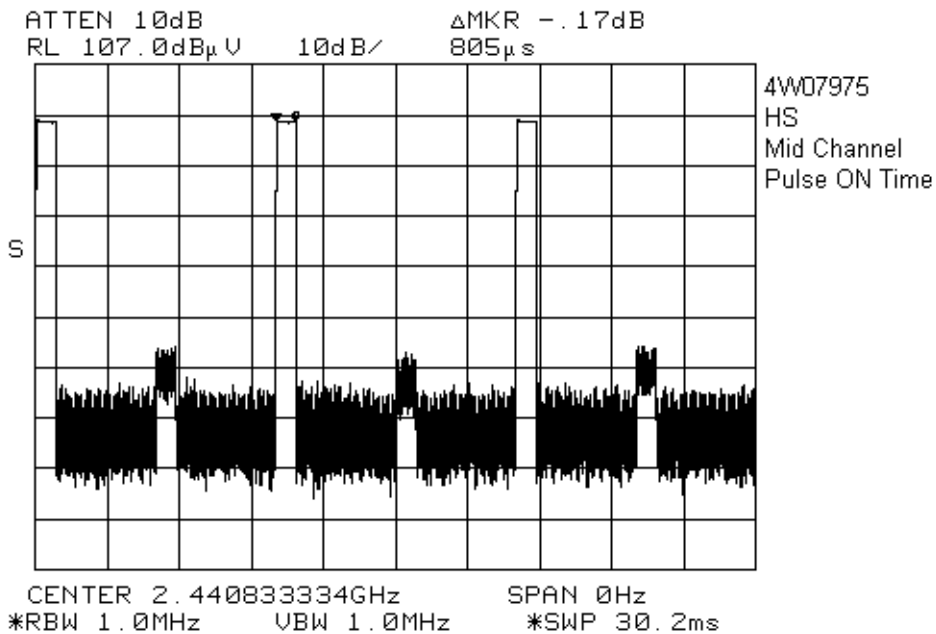
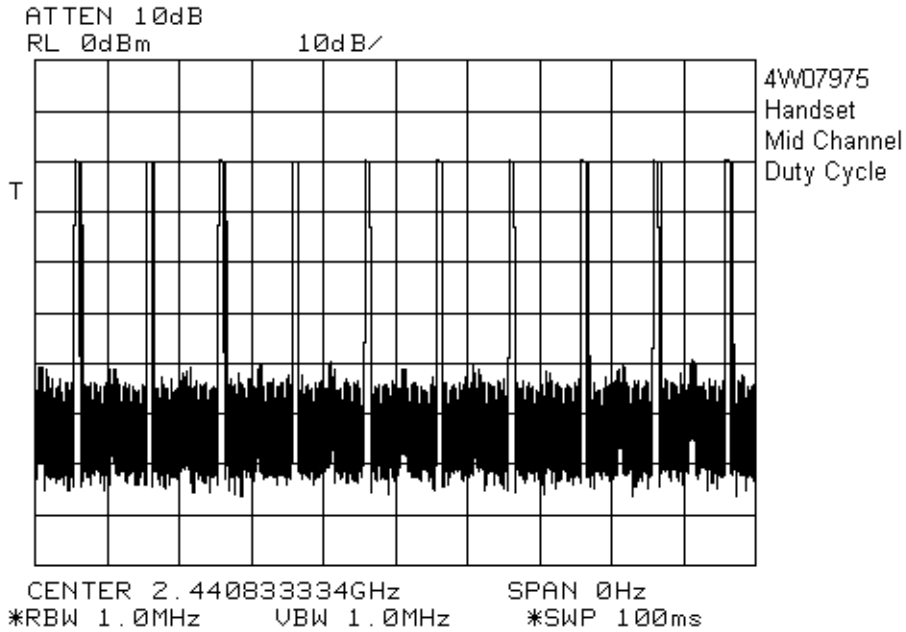
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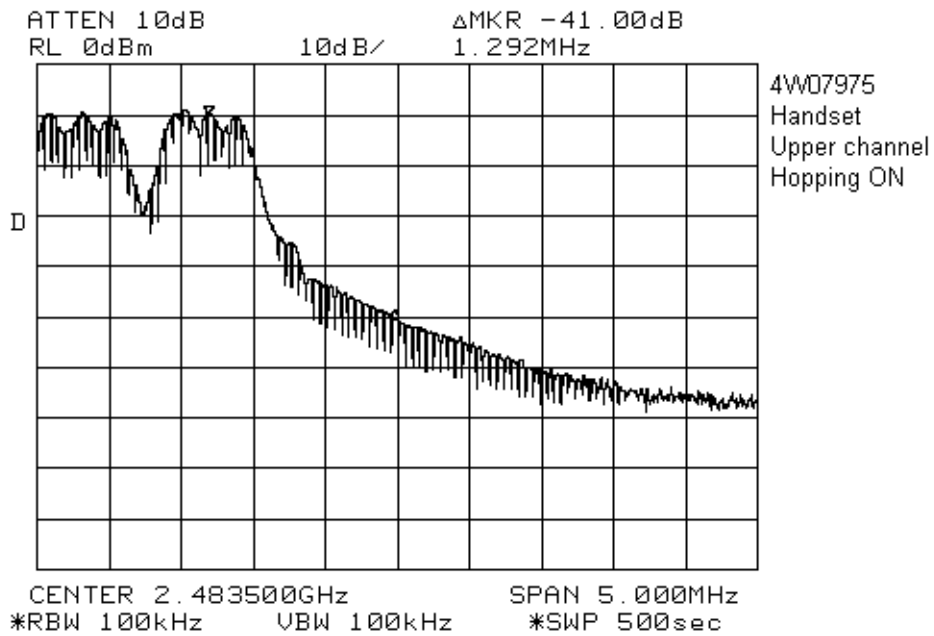
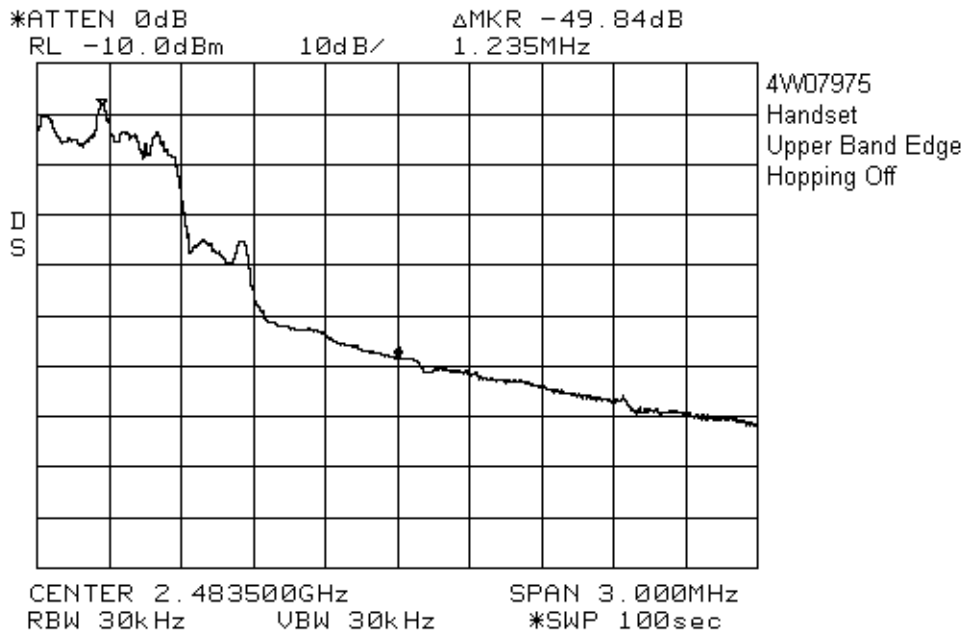
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EQUIPMENT: 480i Cordless Base Station

Handset

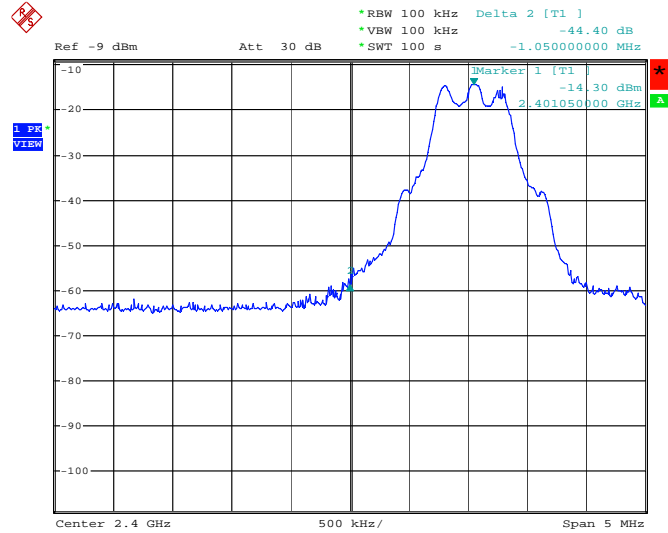


EQUIPMENT: 480i Cordless Base Station



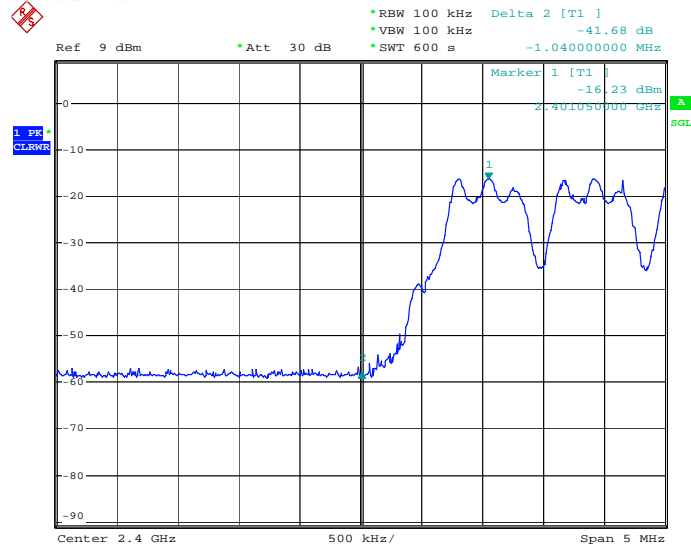
EQUIPMENT: 480i Cordless Base Station

20 dB Band Edge
Base Unit __Low band edge
Hopping off



Date: 16.JUN.2005 15:30:35

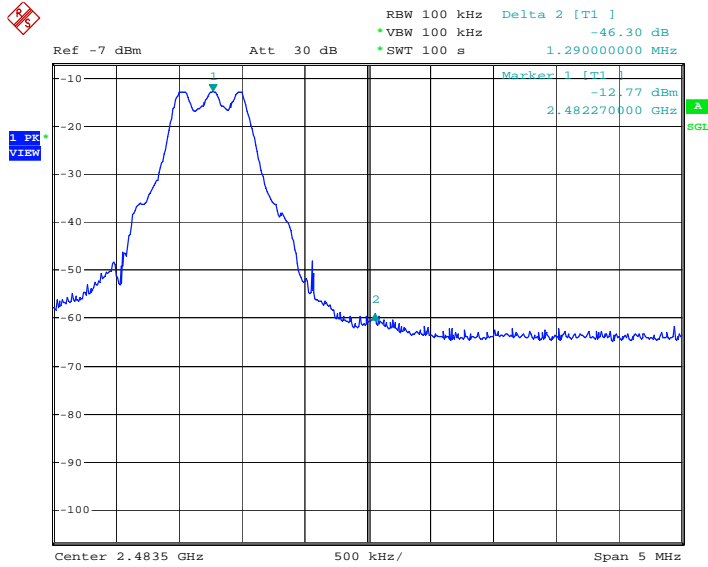
Hopping on



Date: 16.JUN.2005 17:04:36

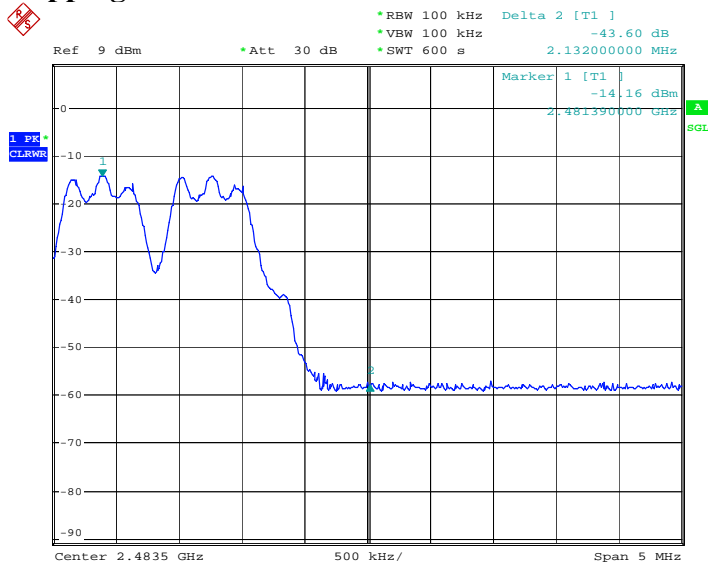
EQUIPMENT: 480i Cordless Base Station

Base Unit__ High Band Edge
Hopping off



Date: 16.JUN.2005 15:37:31

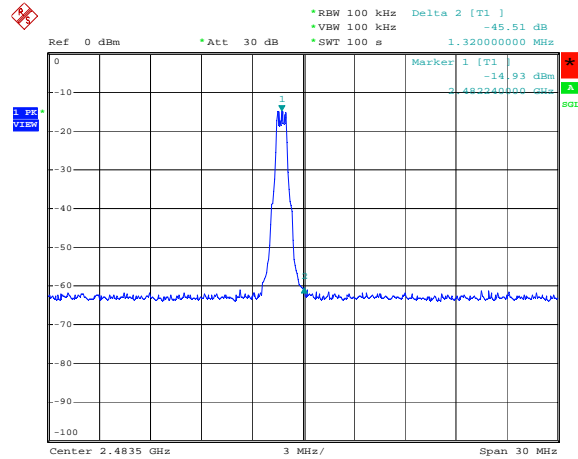
Hopping on



Date: 16.JUN.2005 17:17:30

EQUIPMENT: 480i Cordless Base Station

**Restricted Band Check---- Marker Delta Measurement
 Base Unit**



Date: 16.JUN.2005 17:53:08

Measured Peak Field Strength for highest Channel 94: 118.9dBuV/m at 3m.
 Delta Value from Higher Level of Fundamental to Restricted Band Edge=-45.51dB

Peak Band Edge Level (Marker Delta): = 118.9dBuV/m – 45.51dB = 73.39dBuV/m at 3 m.
 Limit=74dBuV/m at 3m.

Average = 73.39dBuV/m –21.94dB(Duty Cycle)= 51.45dBuV/m at 3m.
 Limit is 54dBuV/m at 3m.

EQUIPMENT: 480i Cordless Base Station

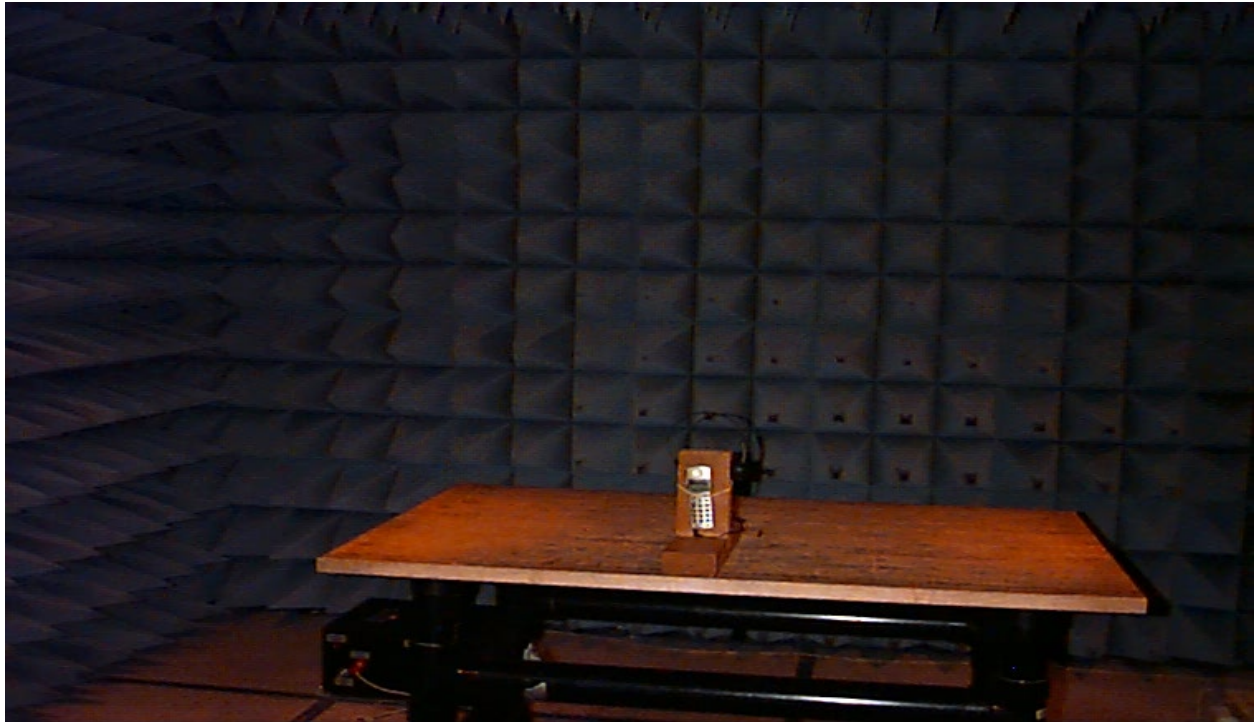
Set-up photo:

Base



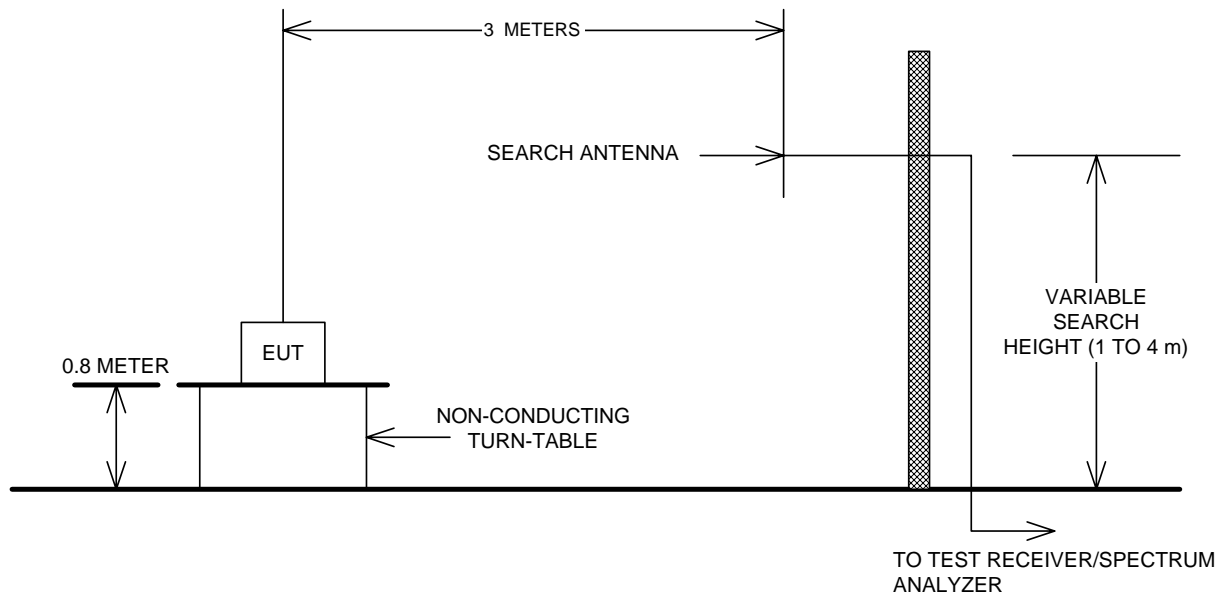
EQUIPMENT: 480i Cordless Base Station

Handset

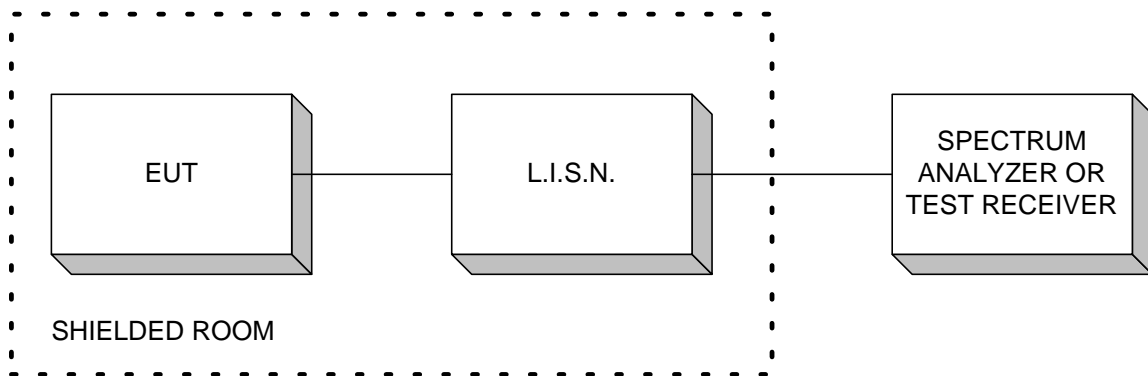


Section 10. Block Diagrams

Test Site For Radiated Emissions



Conducted Emissions



EQUIPMENT: 480i Cordless Base Station

Section 11. Test Equipment List

EQUIPMENT	MANUFACTURE R	MODEL	SERIAL	LAST CAL.	NEXT CAL.
Spectrum Analyzer	Rohde & Schwarz	FSP	FA001920	Mar 22/05	Mar 22/06
Spectrum Analyzer	Hewlett-Packard	8566B	FA001309	May 18/05	May 18/06
Spectrum Analyzer Display	Hewlett-Packard	85662A	FA001309	May 18/05	May 18/06
0.1 – 1300 MHz Amplifier	Hewlett Packard	8447D	FA001909	Jan. 13/05	Jan. 13/06
1.0 – 2.0 GHz Amplifier	JCA	12-400	FA001498	June 18/04	June 18/05
2.0 – 4.0 GHz Amplifier	JCA	24-600	FA001496	June 18/04	June 18/05
4.0 – 8.0 GHz Amplifier	JCA	48-600	FA001497	June 18/04	June 18/05
5.0 – 18.0 GHz Amplifier	NARDA	DWT-186N23U40	FA001409	COU	COU
18.0 – 26.0 GHz Amplifier	Narda	BBS-1826N612	FA001550	COU	COU
Biconical Antenna	EMCO	3109	FA000904	Aug. 03/04	Aug. 03/05
Horn Antenna #1	EMCO	3115	FA000649	Dec. 22/04	Dec. 22/05
Log Periodic Antenna	EMCO	LPA-25	FA000477	Aug. 26/04	Aug. 26/05
LISN	EMCO	4825/2	FA001545	Jan. 13/05	Jan. 13/06
LISN	Tegam	95300-50	FA000986	Jan. 20/05	Jan. 20/06
LISN	Tegam	95300-50	FA000987	Jan. 20/05	Jan. 20/06
Transient Limiter	Hewlett-Packard	1194 7A	FA000975	May 25/05	May 25/06