

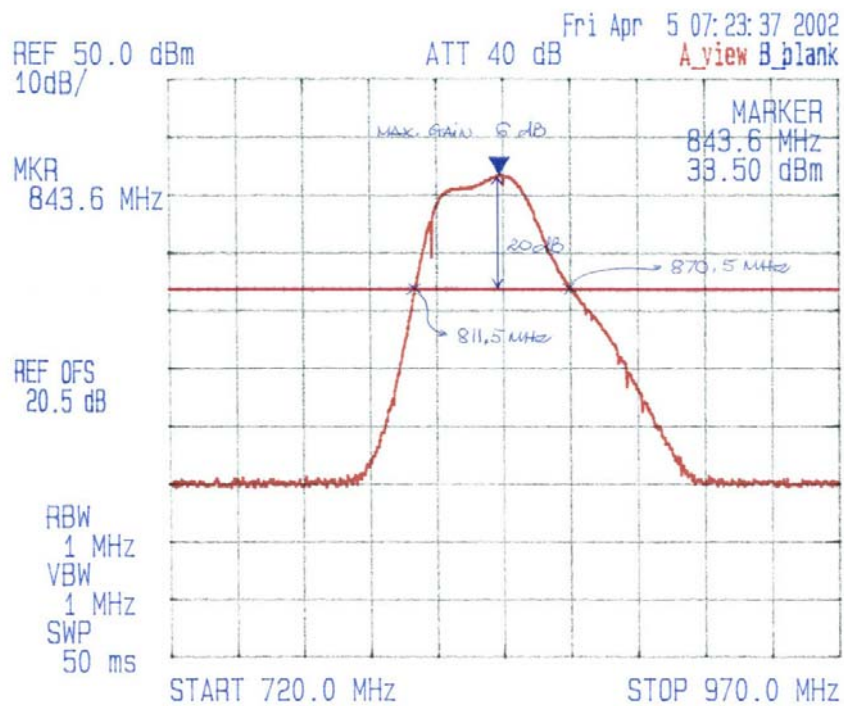
ANNEX 1 - TEST DATA PLOTS

Plot # 1
Band Pass Gain
Cellular Band



DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
20 dB BW of the 824 - 849 MHz band pass gain
RF input 27.8 dBm, Tracking from 750 - 1000 MHz

Date: April 5 2002
Tested by: Hung Trinh



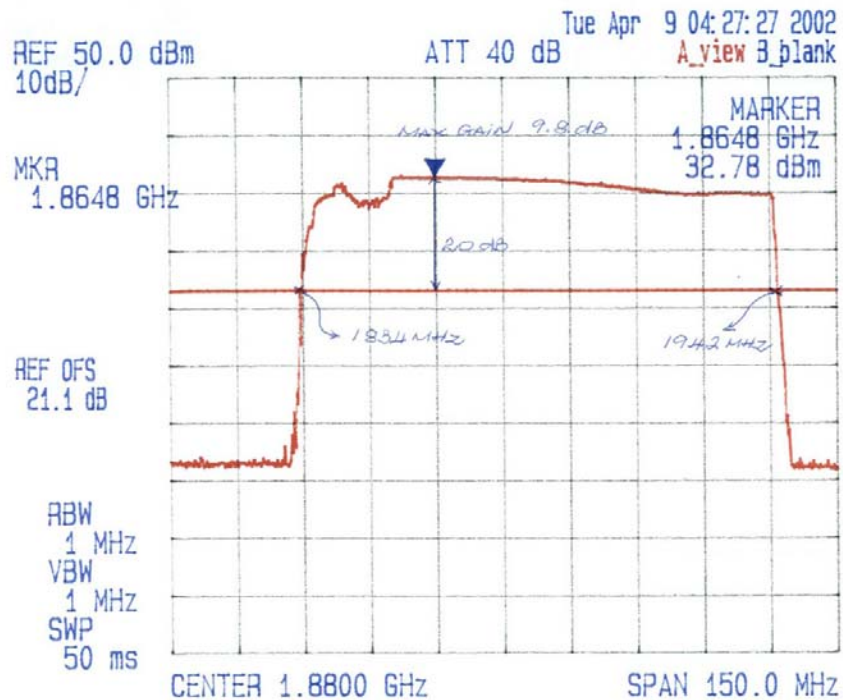
ANNEX 1 - TEST DATA PLOTS

Plot # 2
Band Pass Gain
PCS Band



DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
20 dB BW of the 1850 - 1910 MHz band pass gain
RF input 23 dBm, Tracking from 1800 - 2000 MHz

Date: April 9, 2002
Tested by: Hung Trinh



ANNEX 1 - TEST DATA PLOTS

Plot # 3

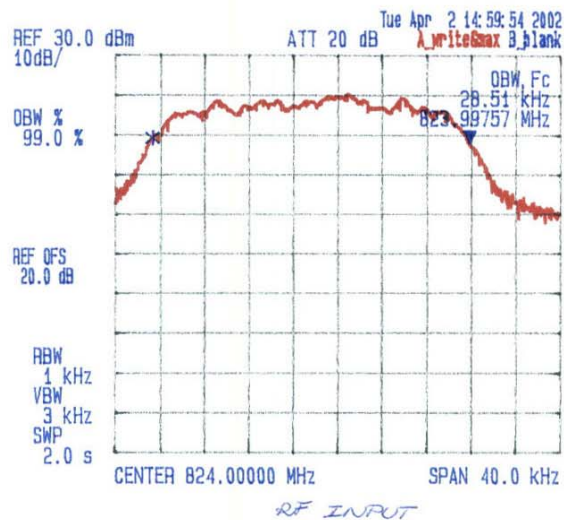
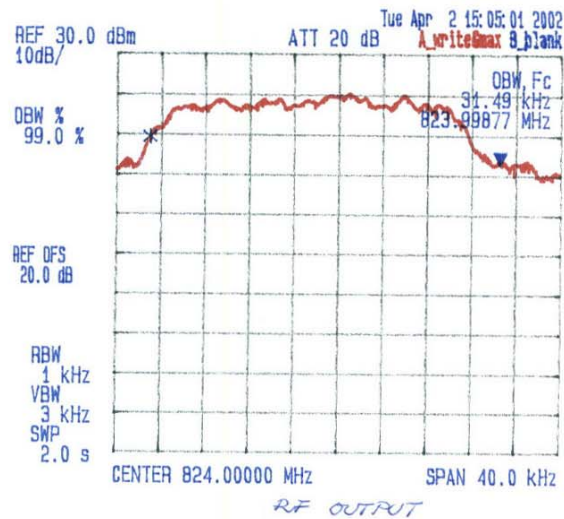
99 % Occupied Bandwidth

Carrier Frequency: 824 MHz

Modulation: TDMA

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824-849 MHz
Frequency: 824 MHz, Modulation: TDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 4

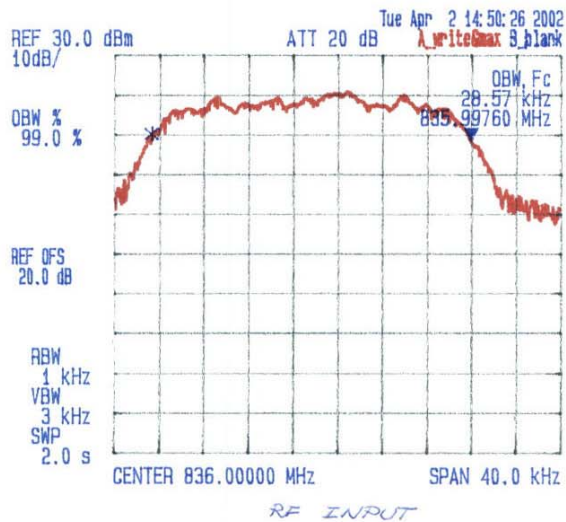
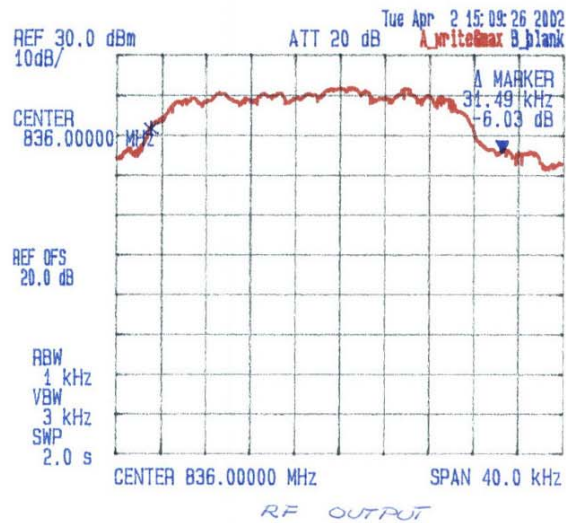
99 % Occupied Bandwidth

Carrier Frequency: 836 MHz

Modulation: TDMA

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824 - 849 MHz
Frequency: 836 MHz, Modulation: TDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 5

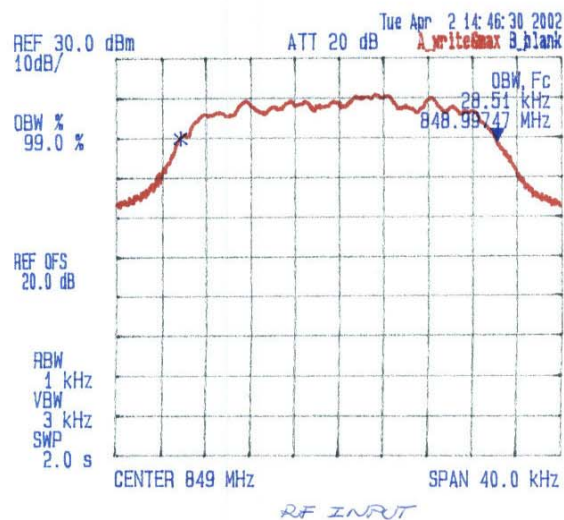
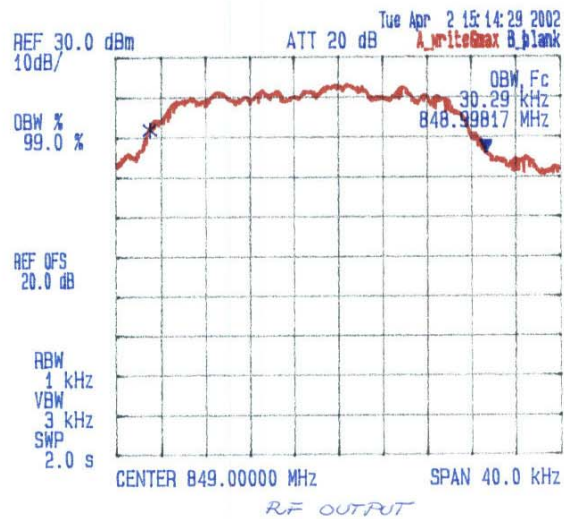
99 % Occupied Bandwidth

Carrier Frequency: 849 MHz

Modulation: TDMA

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824-849 MHz
Frequency: 849 MHz, Modulation: TDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 6

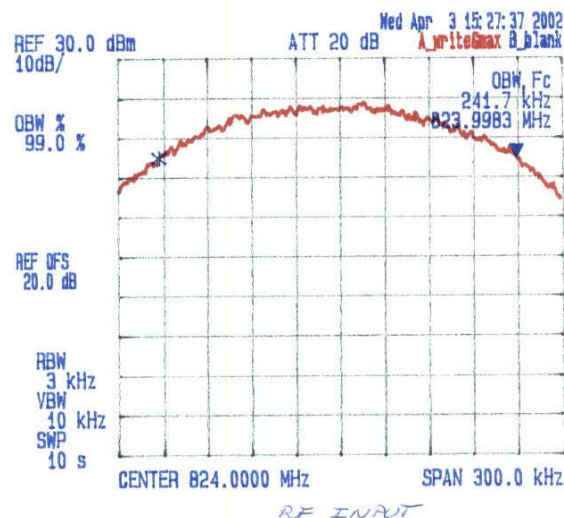
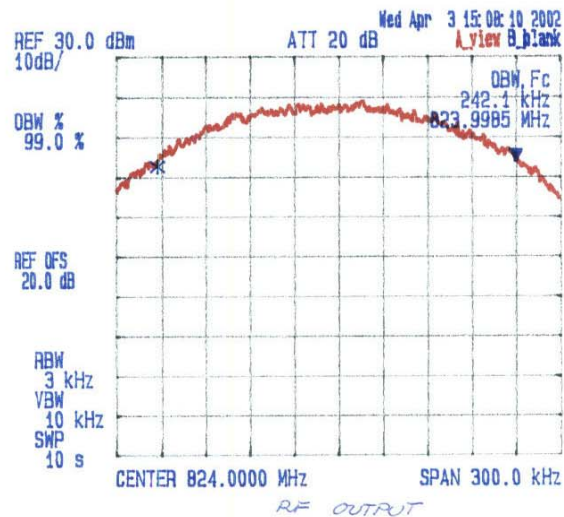
99 % Occupied Bandwidth

Carrier Frequency: 824 MHz

Modulation: GSM

Date: April 3, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824 - 844 MHz
Frequency: 824 MHz, Modulation: GSM
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 7

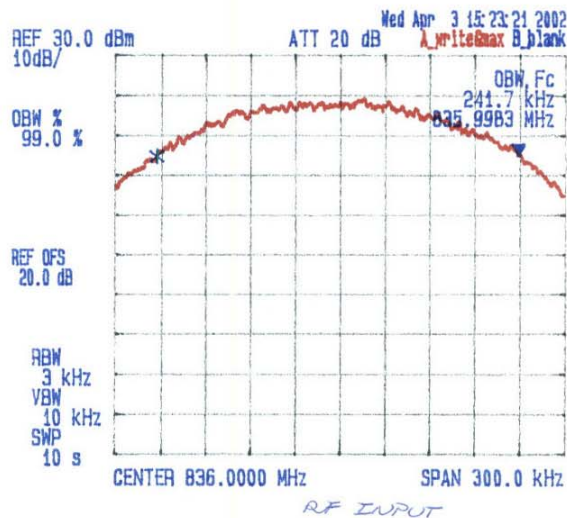
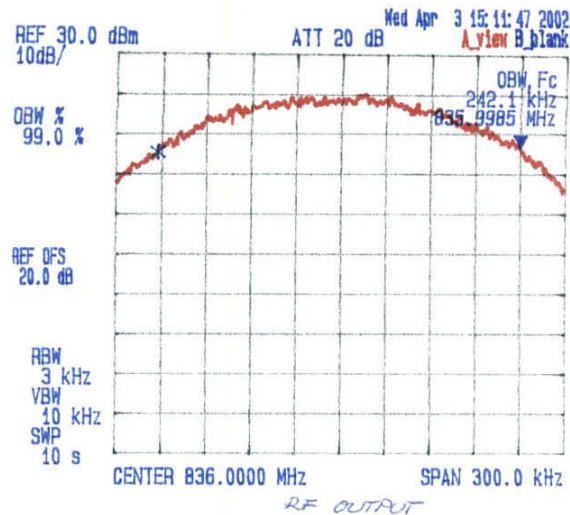
99 % Occupied Bandwidth

Carrier Frequency: 836 MHz

Modulation: GSM

Date: April 3, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 834-849 MHz
Frequency: 836 MHz, Modulation: GSM
99 % OBW

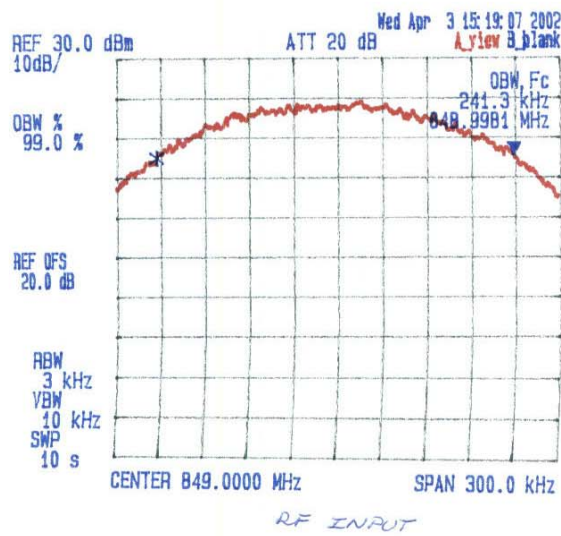
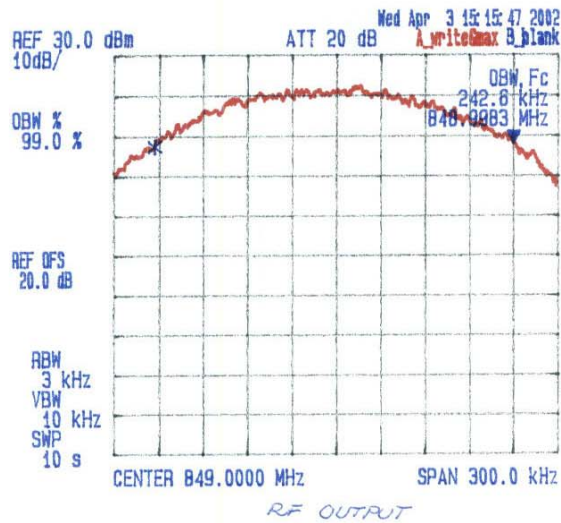


ANNEX 1 - TEST DATA PLOTS

Plot # 8
99 % Occupied Bandwidth
Carrier Frequency: 849 MHz
Modulation: GSM

Date: April 3, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824-849 MHz
Frequency: 849 MHz, Modulation: GSM
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 9

99 % Occupied Bandwidth

Carrier Frequency: 824 MHz

Modulation: FM with 2.5 kHz sine wave $\pm$ 8 kHz peak frequency deviation

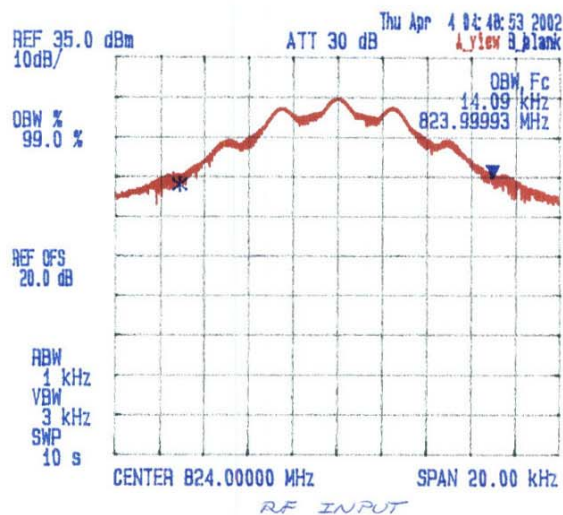
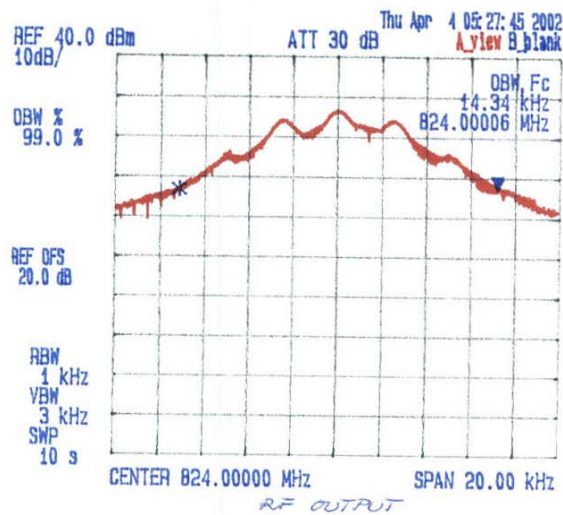
Date: April 4, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.

DA4000 VARIABLE GAIN RF AMPLIFIER

Frequency Band: 824-849 MHz
Freq.: 824 MHz, Mod.: FM mod. with 2.5 kHz Sine wave $\pm$ 8 kHz peak freq. dev.

99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 10

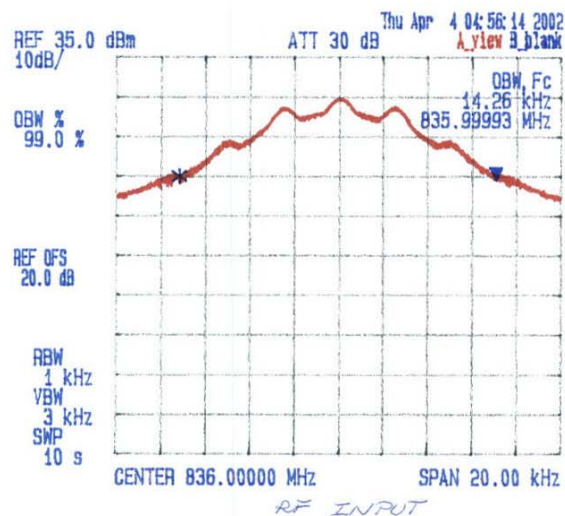
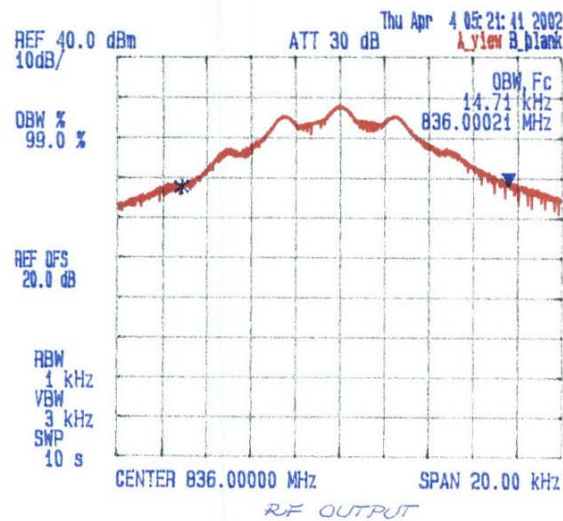
99 % Occupied Bandwidth

Carrier Frequency: 836 MHz

Modulation: FM with 2.5 kHz sine wave $\pm$ 8 kHz peak frequency deviation

Date: April 4, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 834-848 MHz
Freq.: 836 MHz, Mod.: FM mod. with 2.5 kHz sine wave $\pm$ 8 kHz peak freq. dev.
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 11

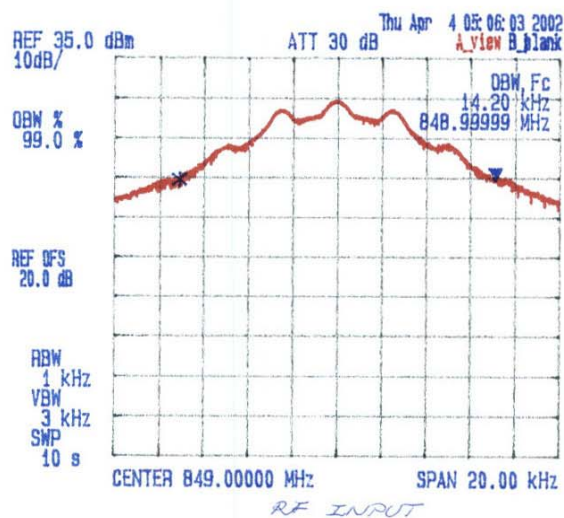
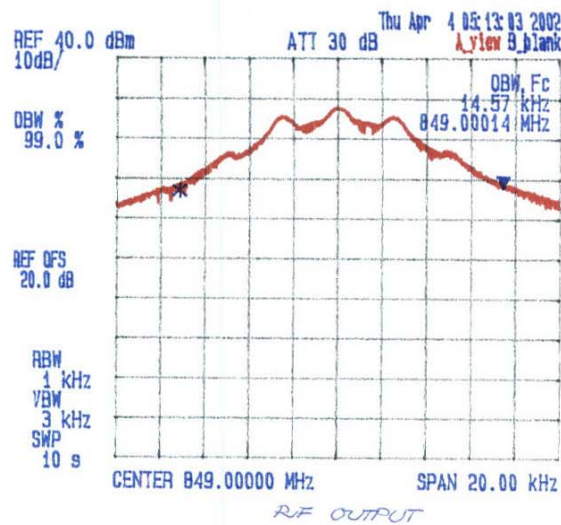
99 % Occupied Bandwidth

Carrier Frequency: 849 MHz

Modulation: FM with 2.5 kHz sine wave $\pm$ 8 kHz peak frequency deviation

Date: April 4, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 840-840 MHz
Freq.: 840 MHz, Mod.: FM mod. with 2.5 kHz Sine wave $\pm$ 8 kHz peak freq. dev.
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 12

99 % Occupied Bandwidth

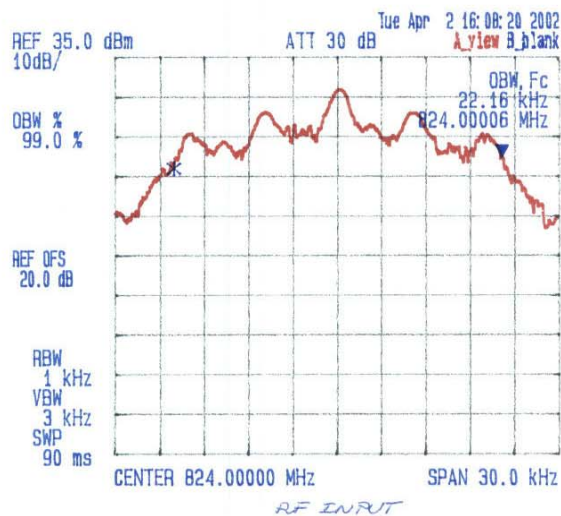
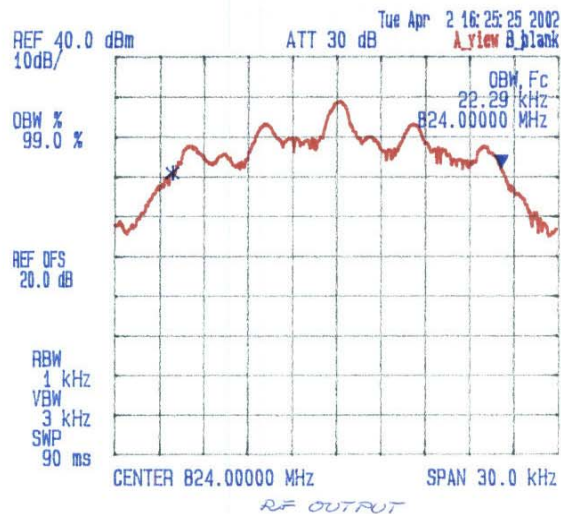
Carrier Frequency: 824 MHz

Modulation: FM with 10 kbps data pattern at ± 8 kHz peak frequency deviation

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER

Frequency Band: 824-849 MHz
Frequency: 824 MHz, Modulation: FM modulation with a
pseudo random 10 kb/s data pattern at ± 8 kHz peak frequency deviation.
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 13

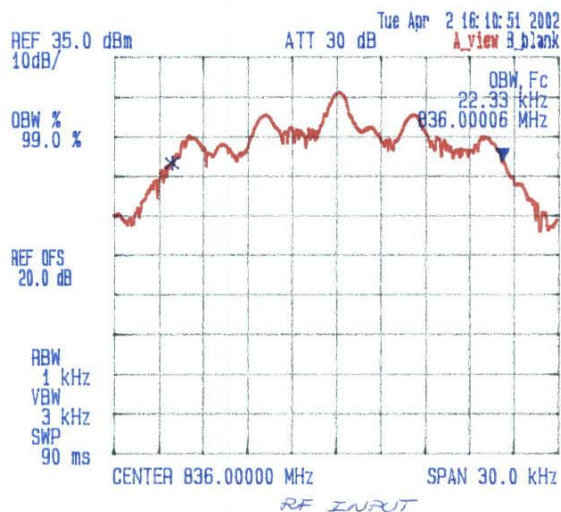
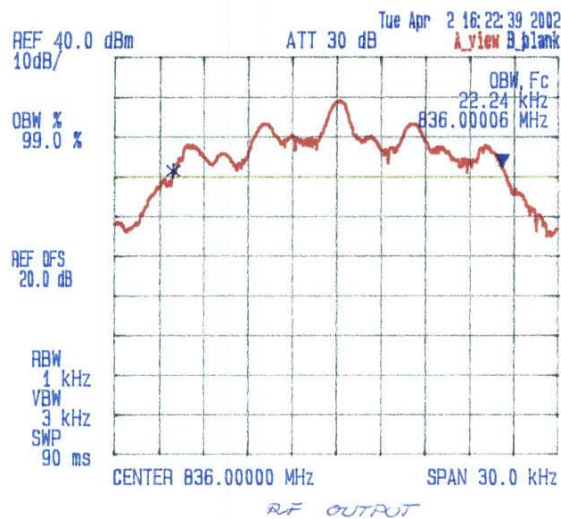
99 % Occupied Bandwidth

Carrier Frequency: 836 MHz

Modulation: FM with 10 kbps data pattern at ± 8 kHz peak frequency deviation

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824-849 MHz
Frequency: 836 MHz, Modulation: FM modulation with a
pseudo random 10 kb/s data pattern at ± 8 kHz peak frequency deviation.
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 14

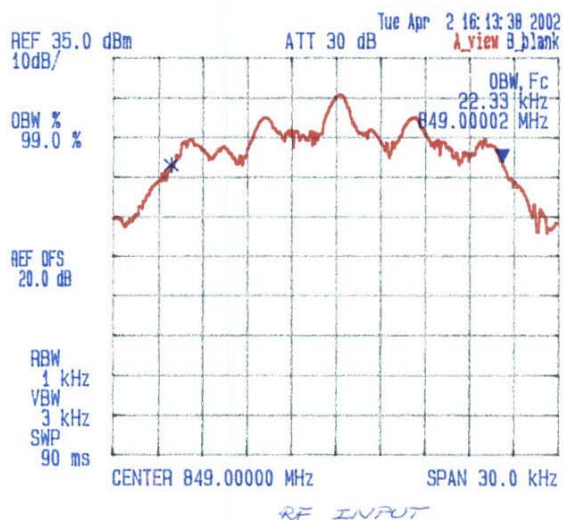
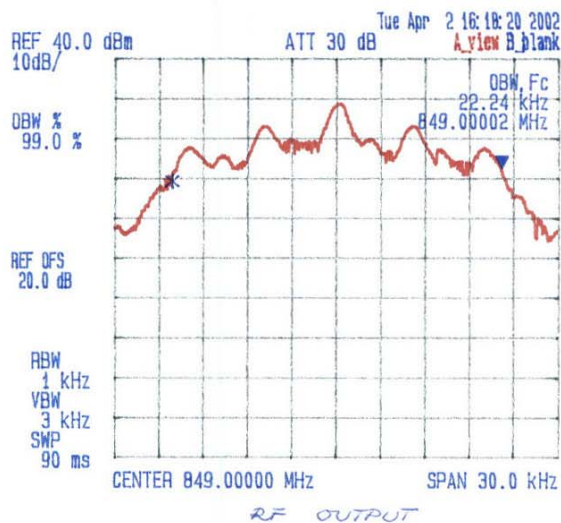
99 % Occupied Bandwidth

Carrier Frequency: 849 MHz

Modulation: FM with 10 kbps data pattern at ± 8 kHz peak frequency deviation

Date: April 2, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 824 - 849 MHz
Frequency: 849 MHz, Modulation: FM modulation with a
pseudo random 10 kb/s data pattern at ± 8 kHz peak frequency deviation.
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 15

99 % Occupied Bandwidth

Carrier Frequency: 1851 MHz

Modulation: TDMA

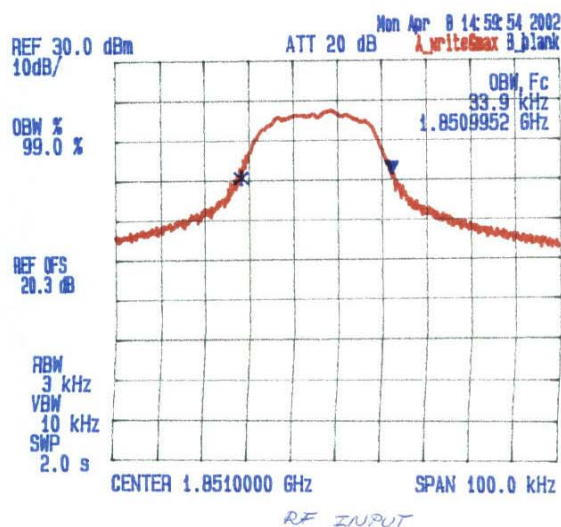
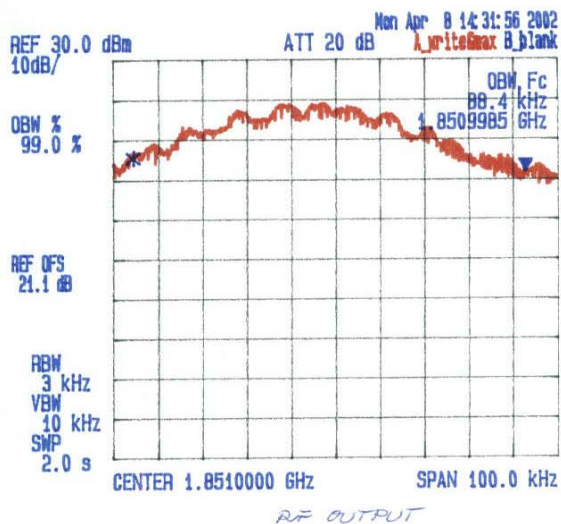
Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER

Frequency Band: 1850 - 1910 MHz

Frequency: 1851 MHz, Modulation: TDMA

99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 16

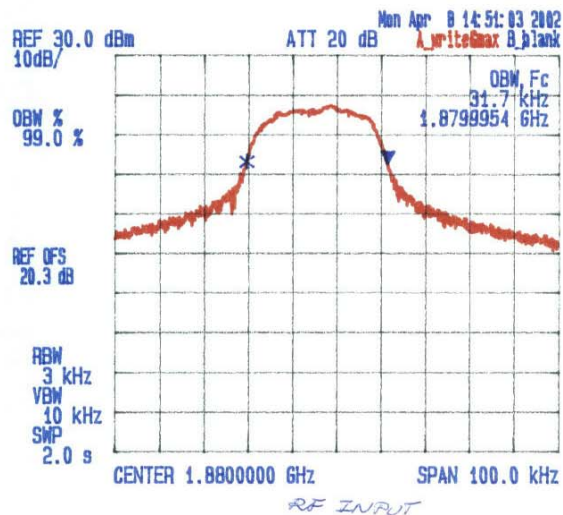
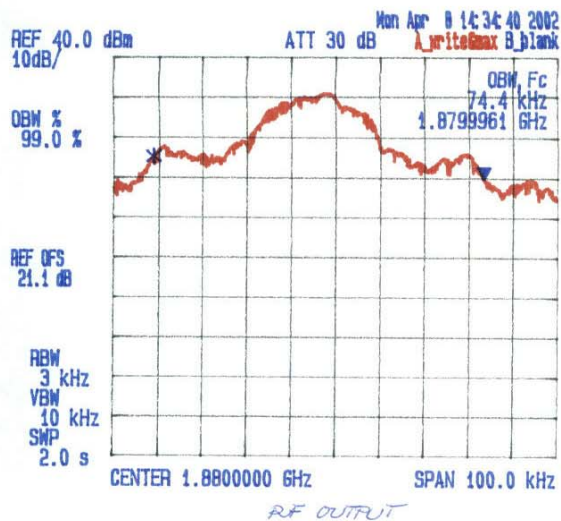
99 % Occupied Bandwidth

Carrier Frequency: 1880 MHz

Modulation: TDMA

Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1880 MHz, Modulation: TDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 17

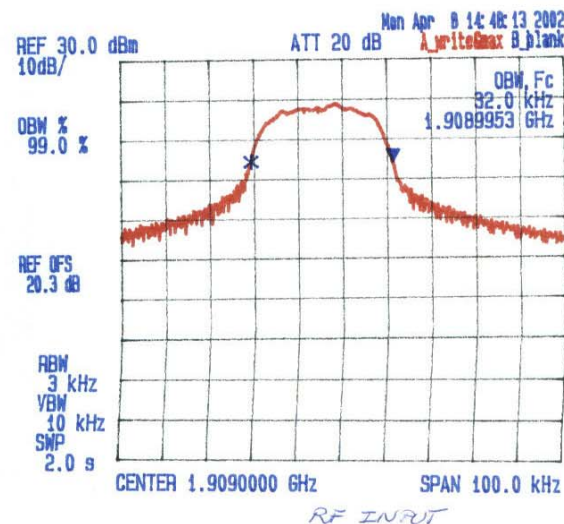
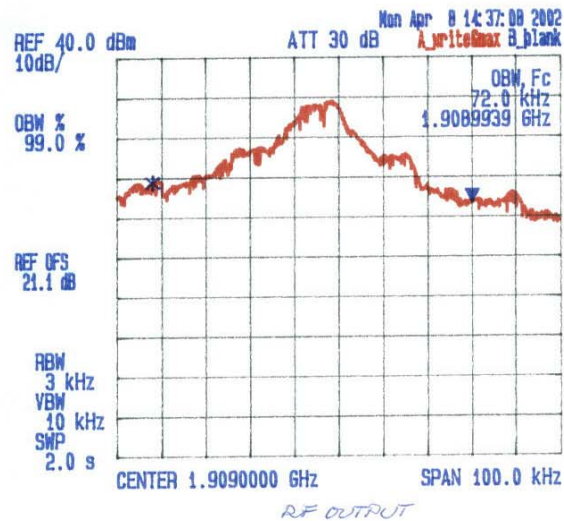
99 % Occupied Bandwidth

Carrier Frequency: 1909 MHz

Modulation: TDMA

Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1909 MHz, Modulation: TDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 18

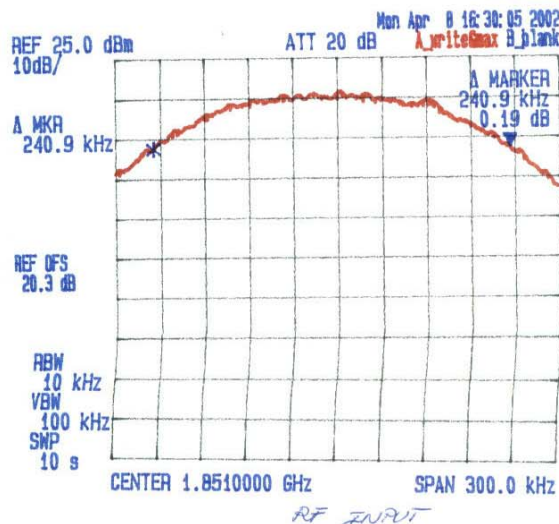
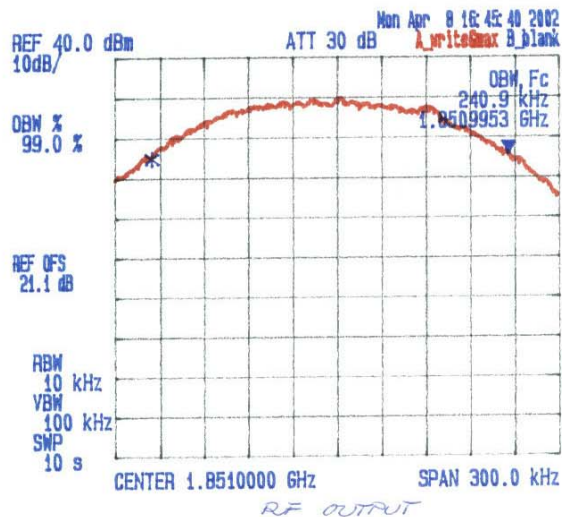
99 % Occupied Bandwidth

Carrier Frequency: 1851 MHz

Modulation: GSM

Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1851 MHz, Modulation: GSM
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 19

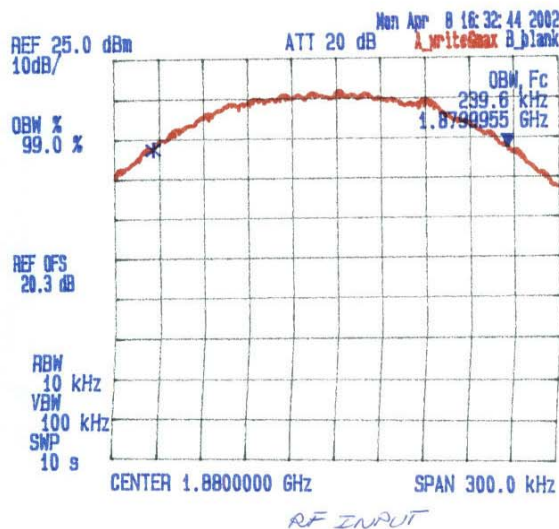
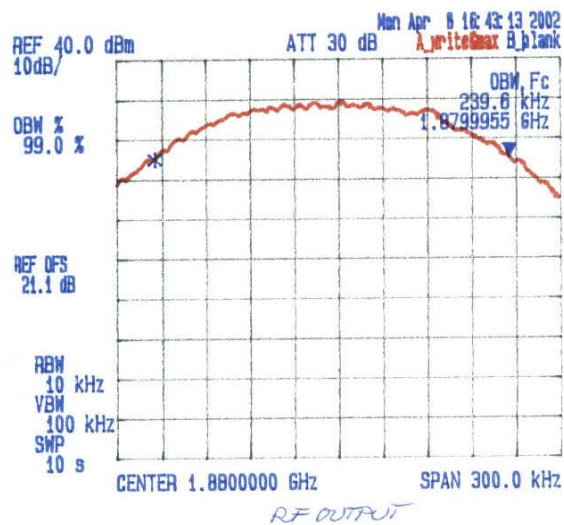
99 % Occupied Bandwidth

Carrier Frequency: 1880 MHz

Modulation: GSM

Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1880 MHz, Modulation: GSM
99 % OBW

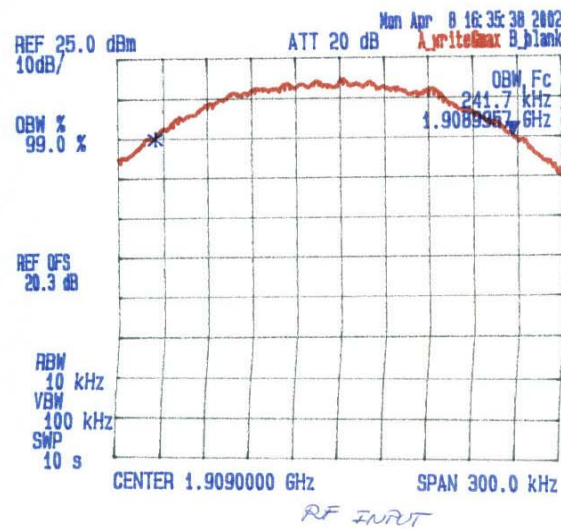
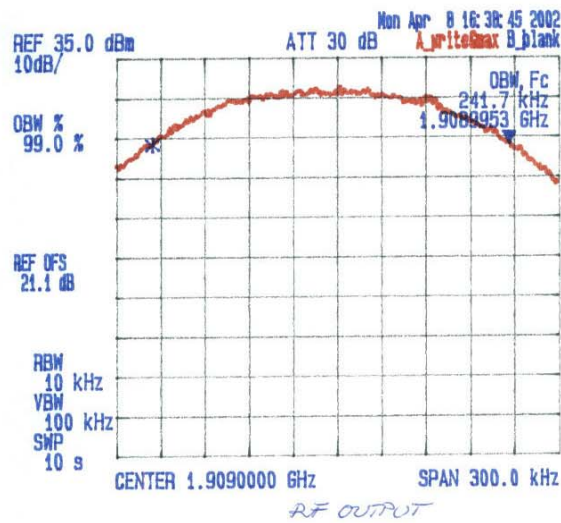


ANNEX 1 - TEST DATA PLOTS

Plot # 20
99 % Occupied Bandwidth
Carrier Frequency: 1909 MHz
Modulation: GSM

Date: April 8, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1909 MHz, Modulation: GSM
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 21

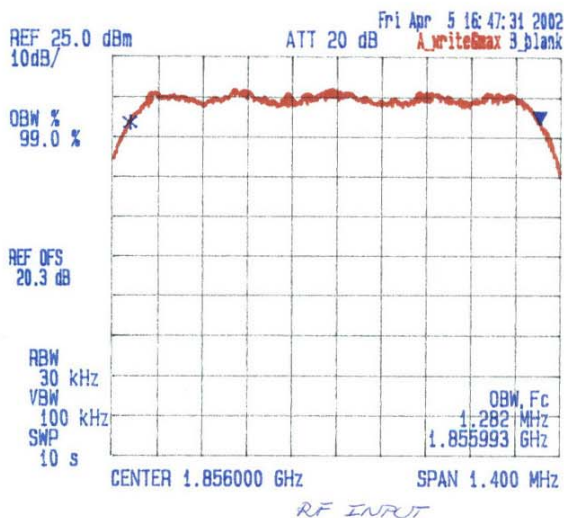
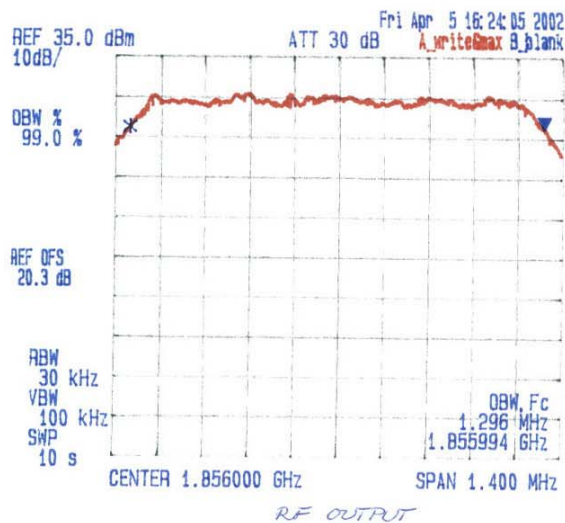
99 % Occupied Bandwidth

Carrier Frequency: 1856 MHz

Modulation: CDMA

Date: April 5, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 18.50 - 19.0 MHz
Frequency: 18.56 MHz, Modulation: CDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 22

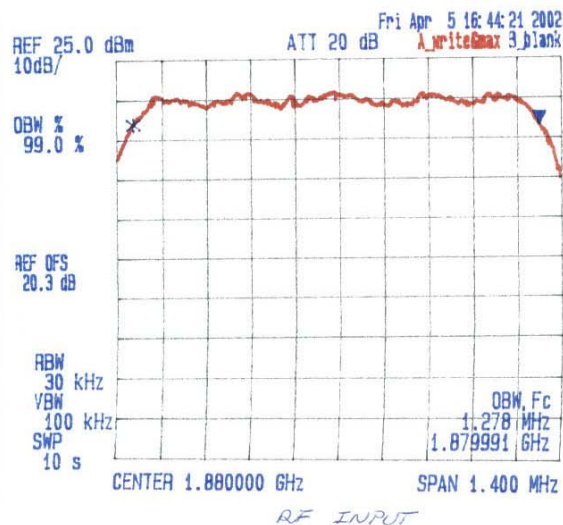
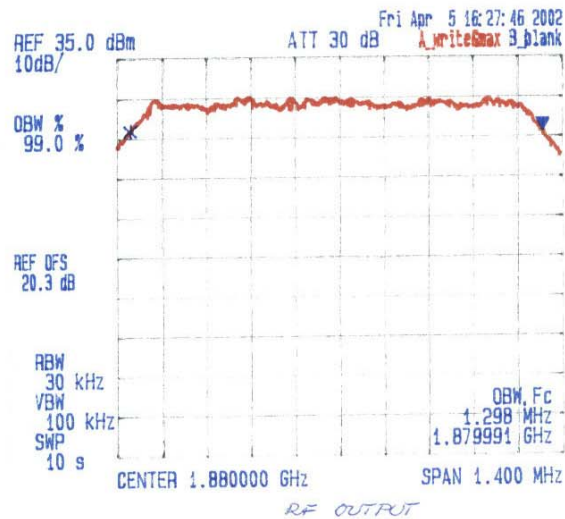
99 % Occupied Bandwidth

Carrier Frequency: 1880 MHz

Modulation: CDMA

Date: April 5, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850 - 1910 MHz
Frequency: 1880 MHz, Modulation: CDMA
99 % OBW



ANNEX 1 - TEST DATA PLOTS

Plot # 23

99 % Occupied Bandwidth

Carrier Frequency: 1904 MHz

Modulation: CDMA

Date: April 5, 2002
Tested by: Hung Trinh

DIGITAL ANTENNA INC.
DA4000 VARIABLE GAIN RF AMPLIFIER
Frequency Band: 1850-1910 MHz
Frequency: 1904 MHz, Modulation: CDMA
99 % OBW

