

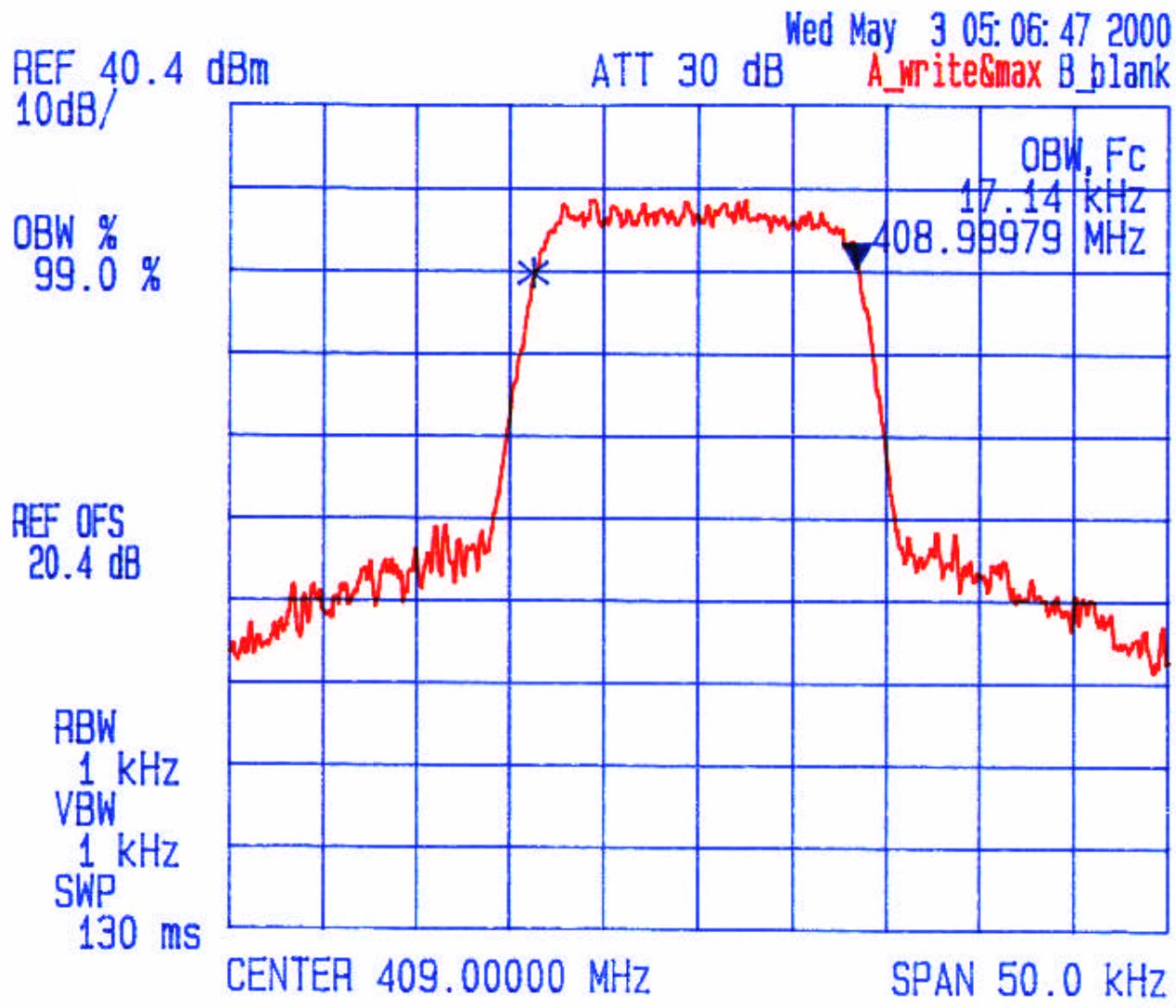


UltraTech
Engineering Labs Inc.

ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO

Tx Freq.: 409 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
99% OBW

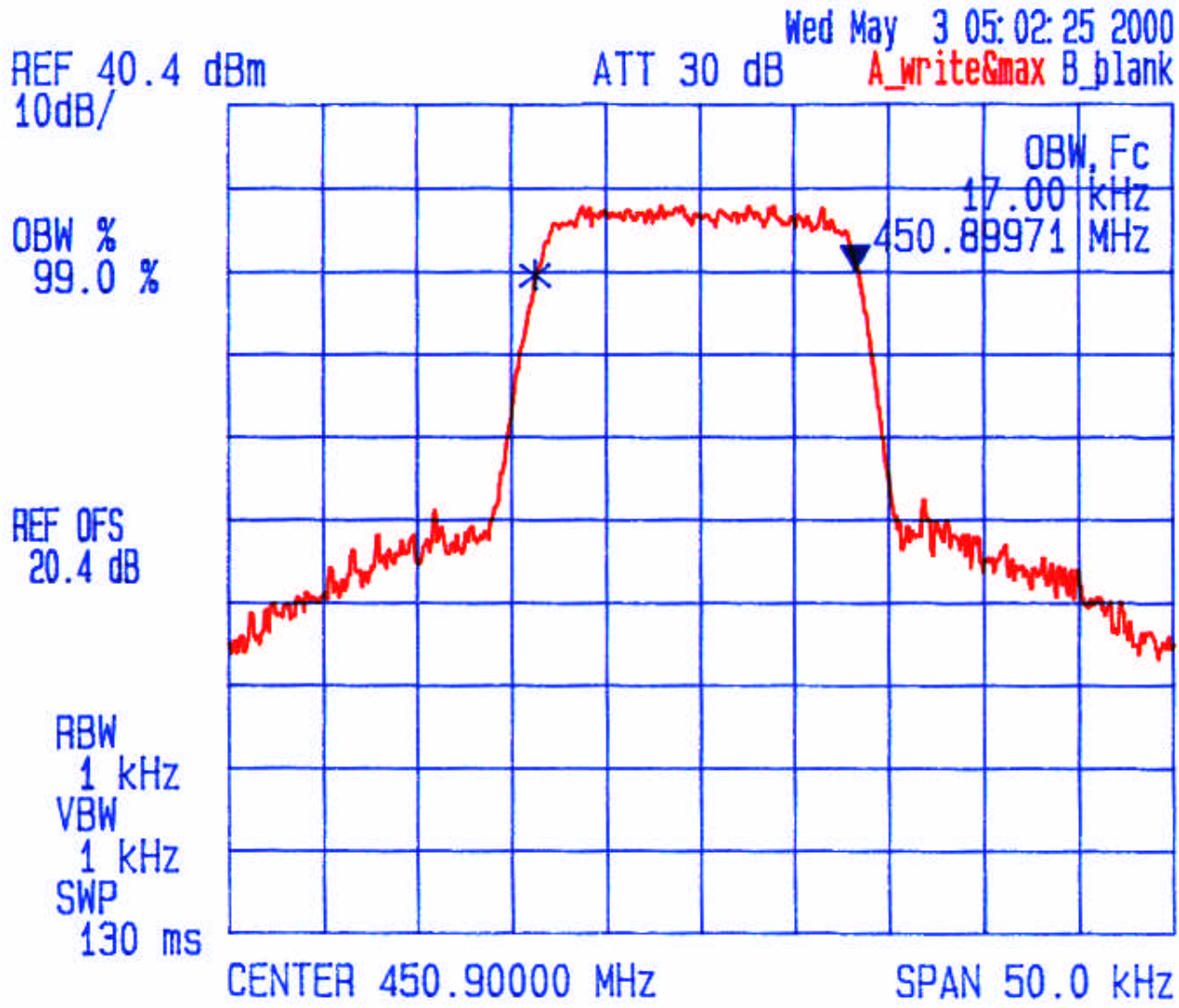
Date: May 03 2000
Tested by: Hung Trinh





ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO
Tx Freq.: 450.9 MHz, RF Output Power: 4.4 Watts Peak, 1 Watt Average
Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
99% OBW

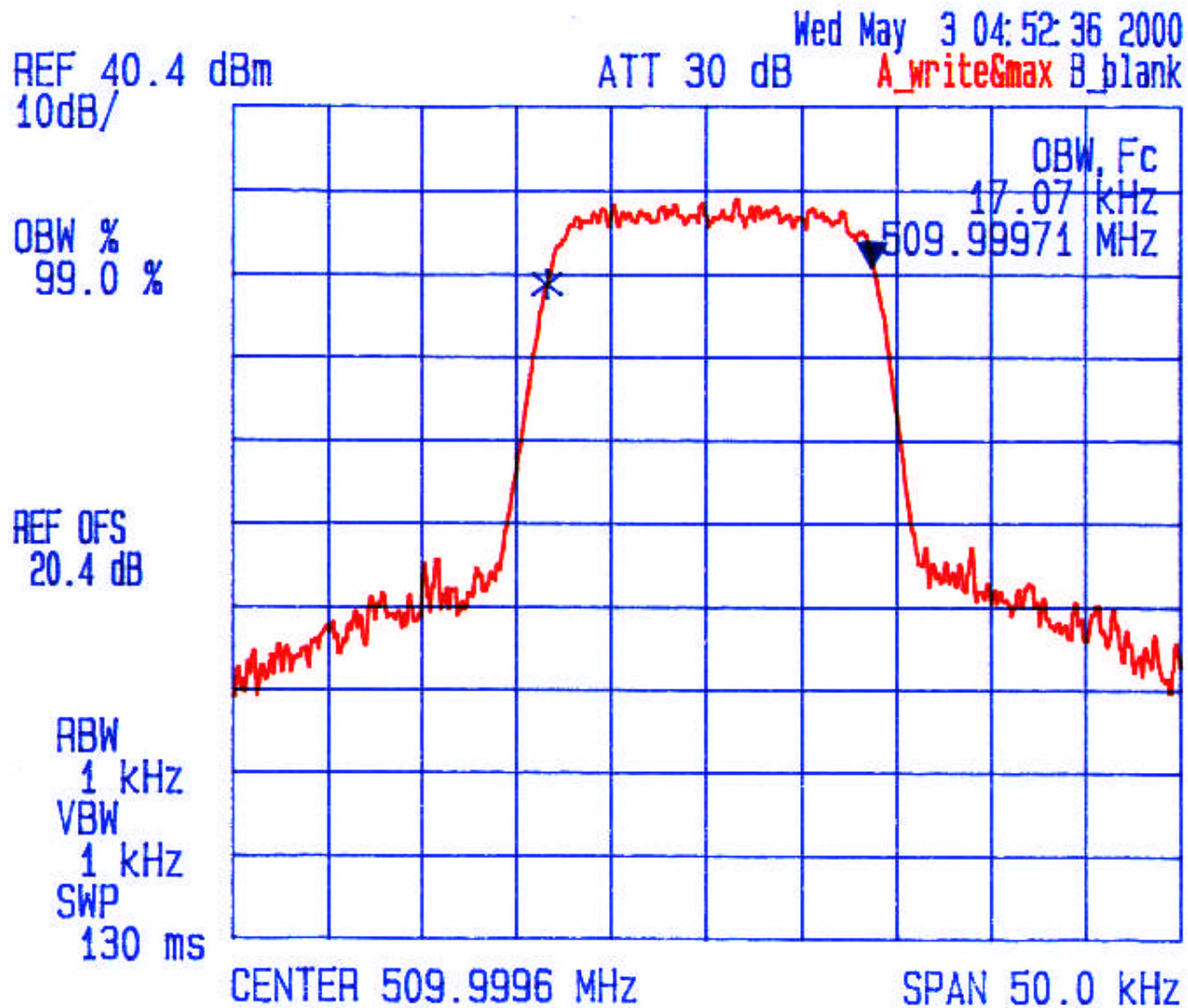
Date: May 03 2000
Tested by: Hung Trinh





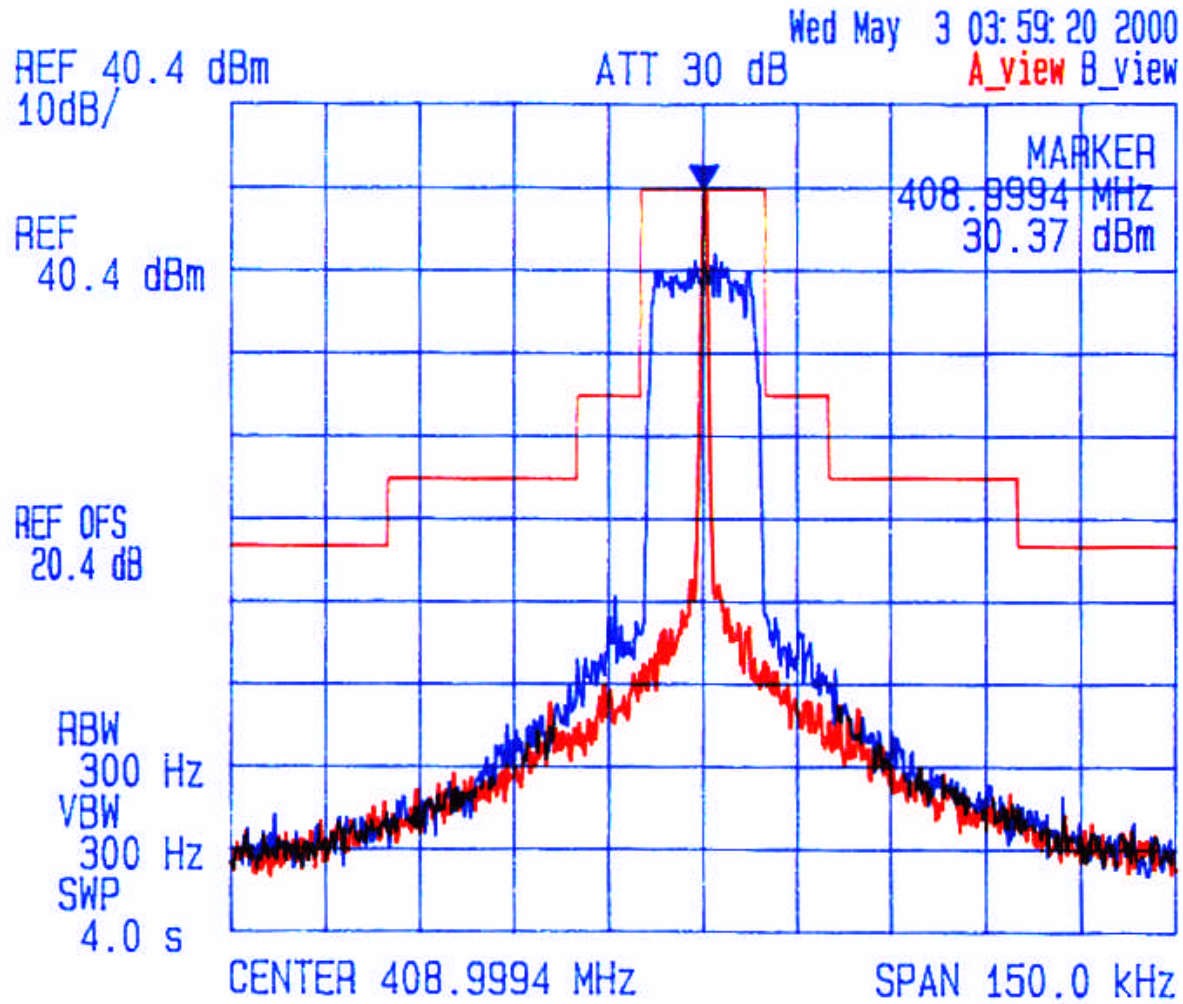
ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO
Tx Freq.: 510 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
99% OBW

Date: May 23 2000
Tested by: Hung Trinh



ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO
Tx Freq: 409 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
Mask B

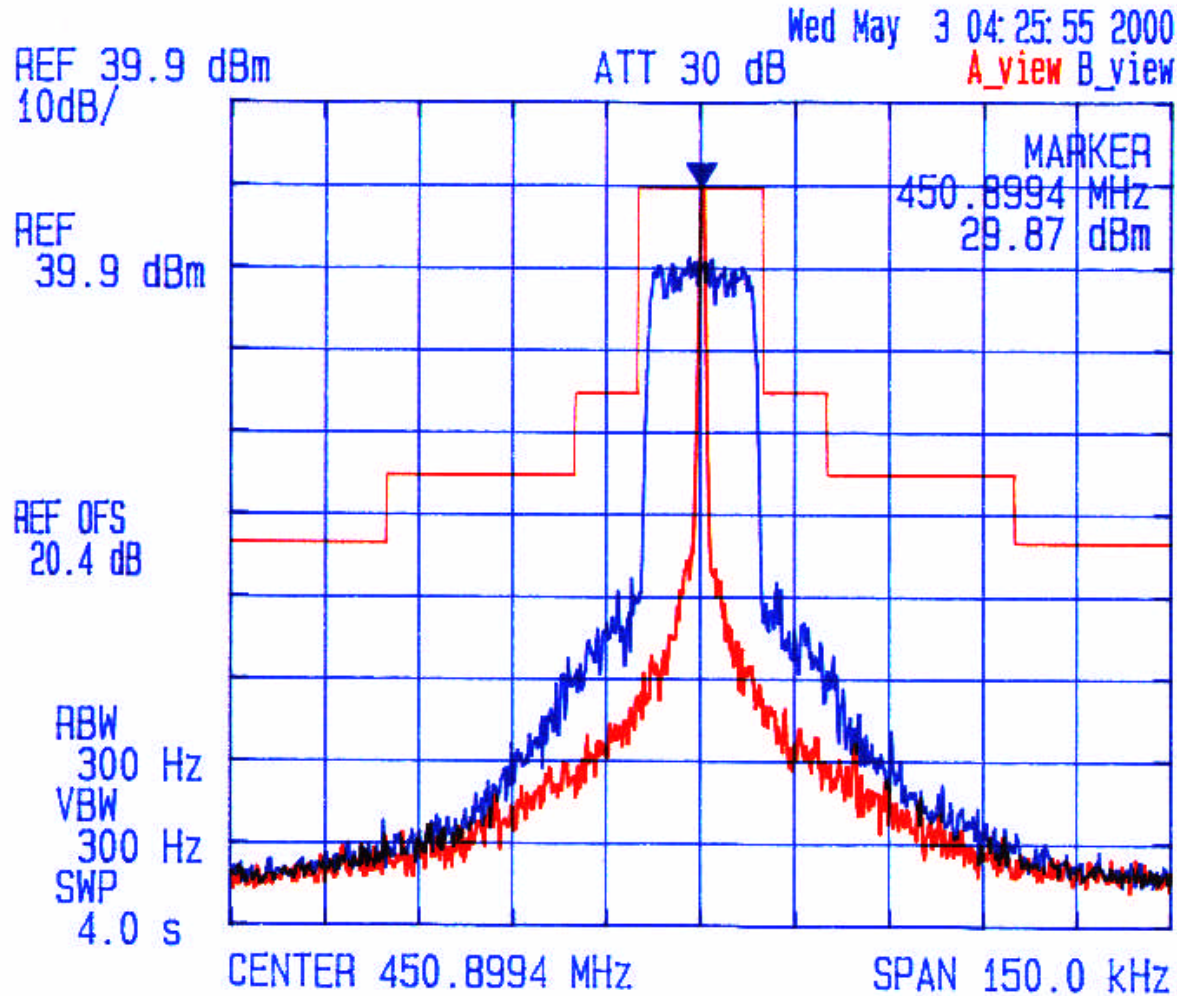
Date: May 03 2000
Tested by: Hung Trinh





ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO
Tx Freq.: 450.9 MHz, RF Output Power: 4.4 Watts Peak, 1 Watt Average
Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
Mask B

Date: May 03 2000
Tested by: Hung Trinh

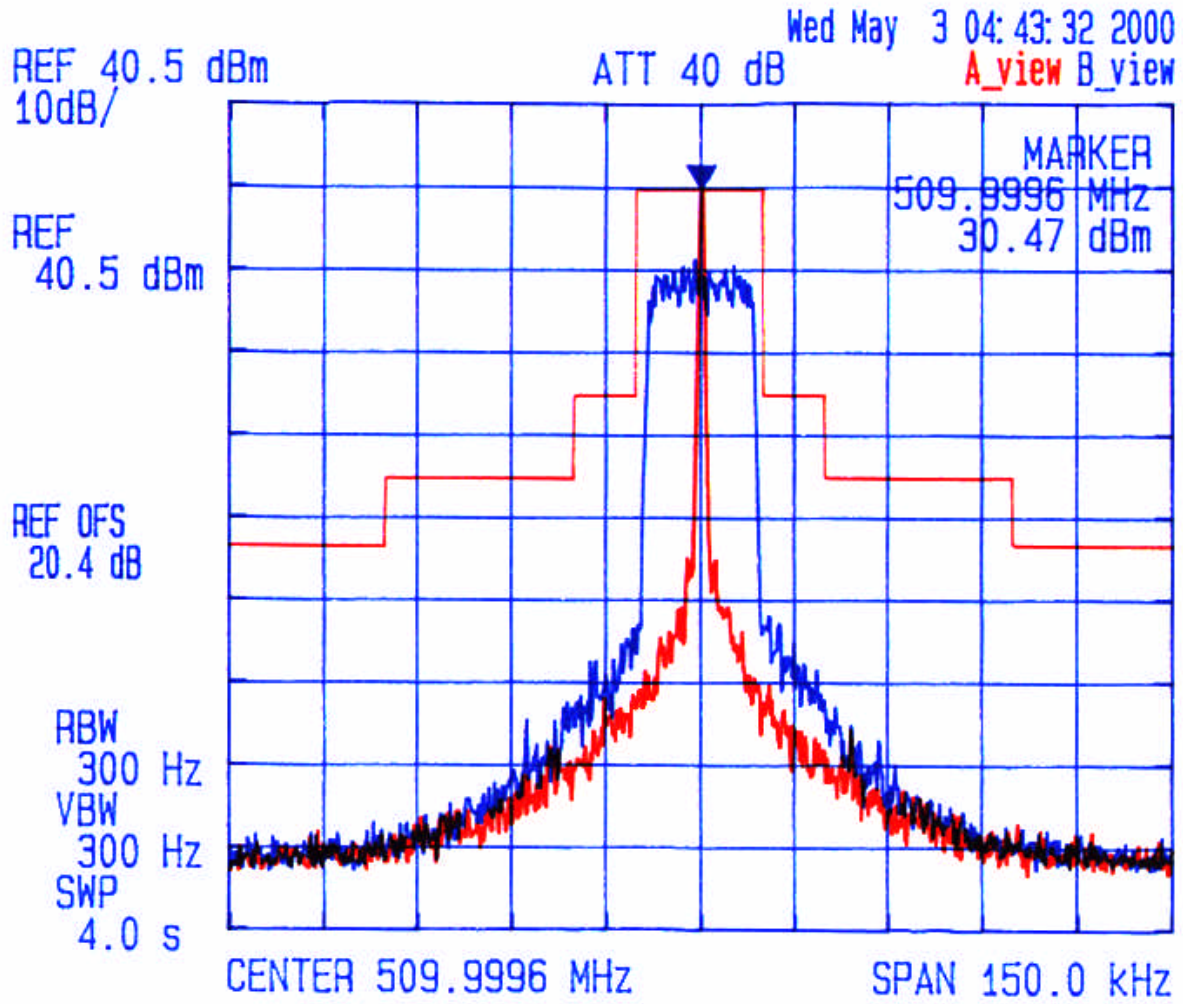




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ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO
 Tx Freq.: 510 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
 Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
Mask B

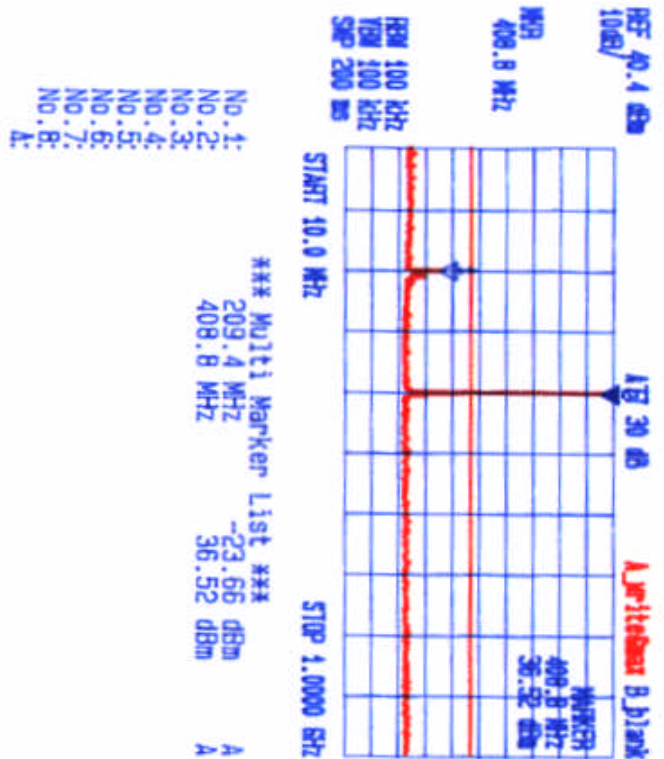
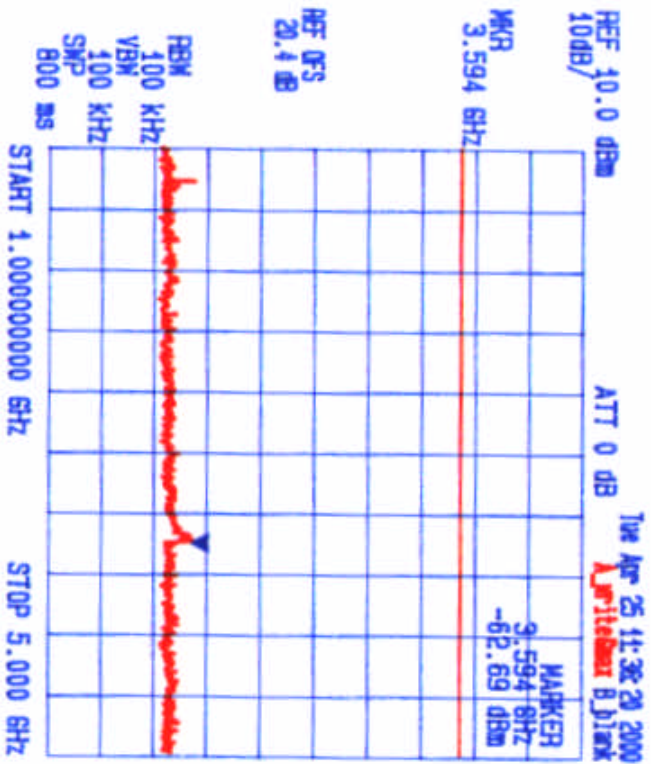
Date: May 23 2000
 Tested by: Hung Trinh





ADAPTIVE BROADBAND
LED R SUBRATE DIGITAL MICROWAVE RADIO
 Tx Freq.: 409 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
 Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
Transmitter Antenna Power Conducted Emissions

Date: April: 25 2000
 Tested by: Hung Trinh



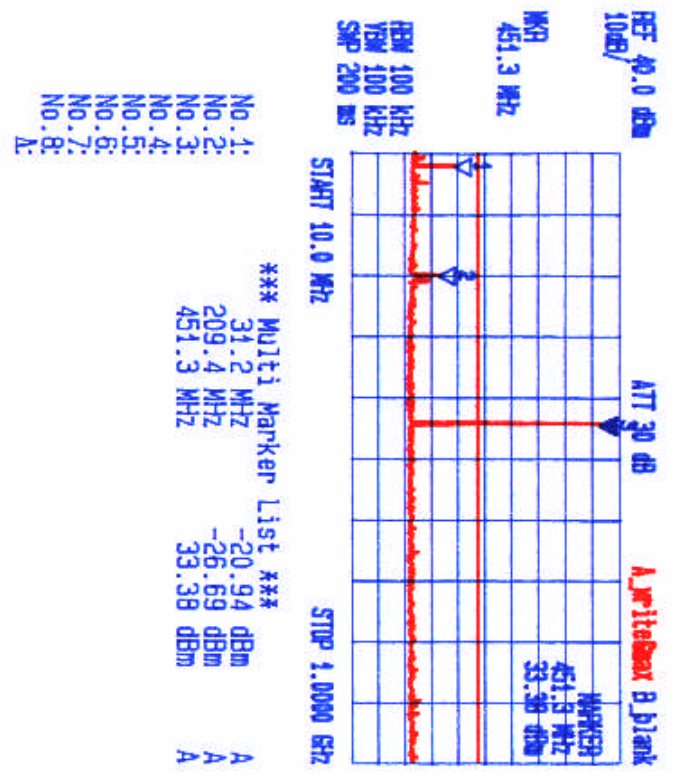
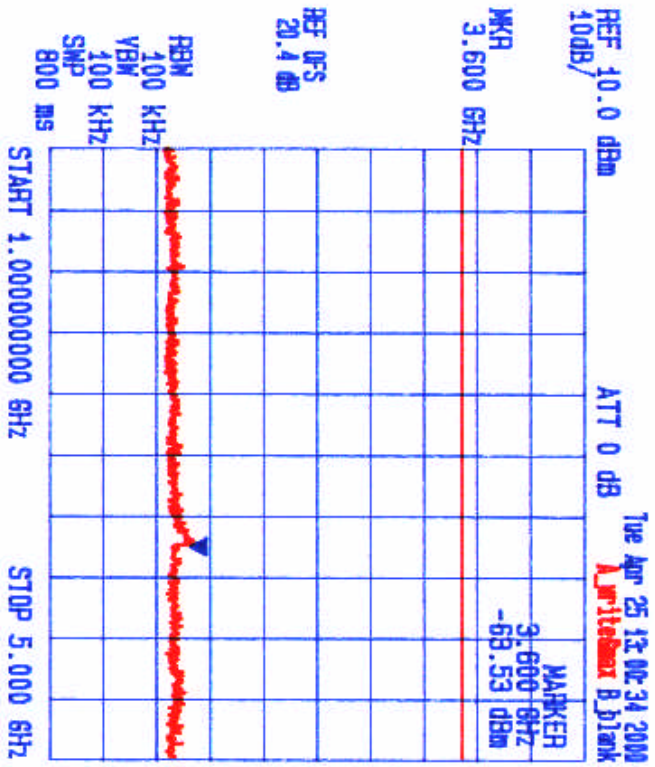


**ADAPTIVE BROADBAND
LED R SUBRATE DIGITAL MICROWAVE RADIO**

Tx Freq.: 450.9 MHz, RF Output Power: 4.4 Watts **Peak**, 1 Watt Average
 Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)

Transmitter Antenna Power Conducted Emissions

Date: April: 25 2000
 Tested by: Hung Trinh

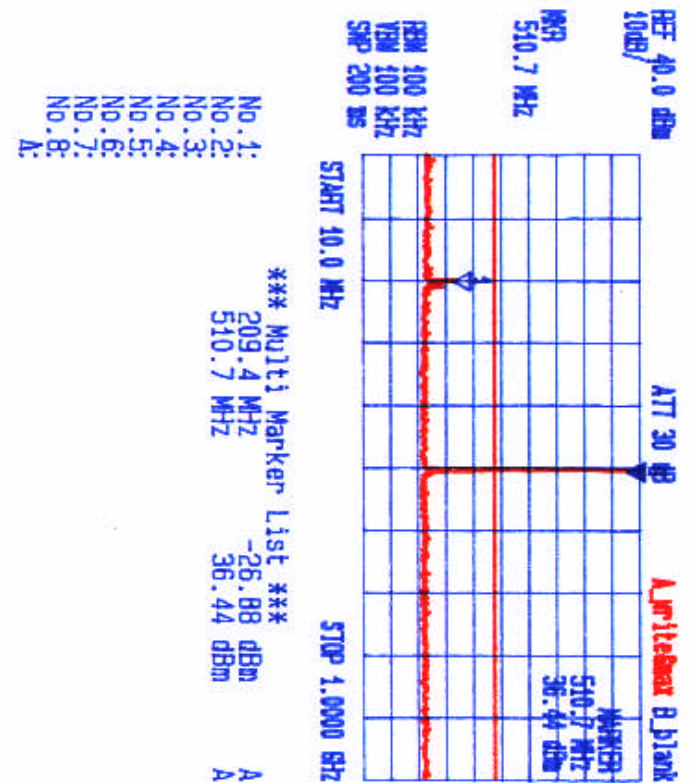
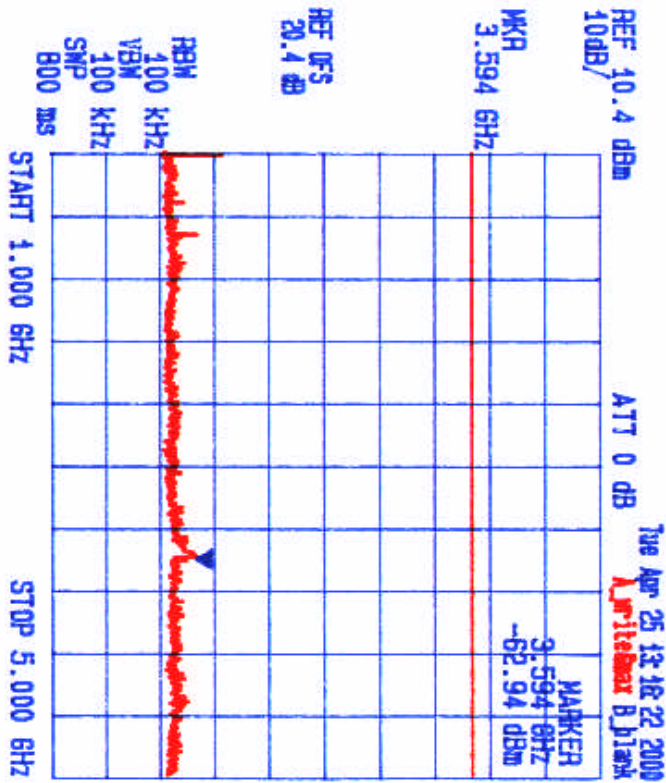




**ADAPTIVE BROADBAND
LEDR SUBRATE DIGITAL MICROWAVE RADIO**

Tx Freq.: 510 MHz, RF Output Power: 5.8 Watts Peak, 1 Watt Average
 Modulation: 32 QAM Modulation with random data @ 64 kbps (with audio filter)
Transmitter Antenna Power Conducted Emissions

Date: April: 25 2000
 Tested by: Hung Trinh





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Transmitter Transient Response Measurements

Date: 25 Aug 2000

Company Name: MICROWAVE DATA Product Tested: LEDR 400S

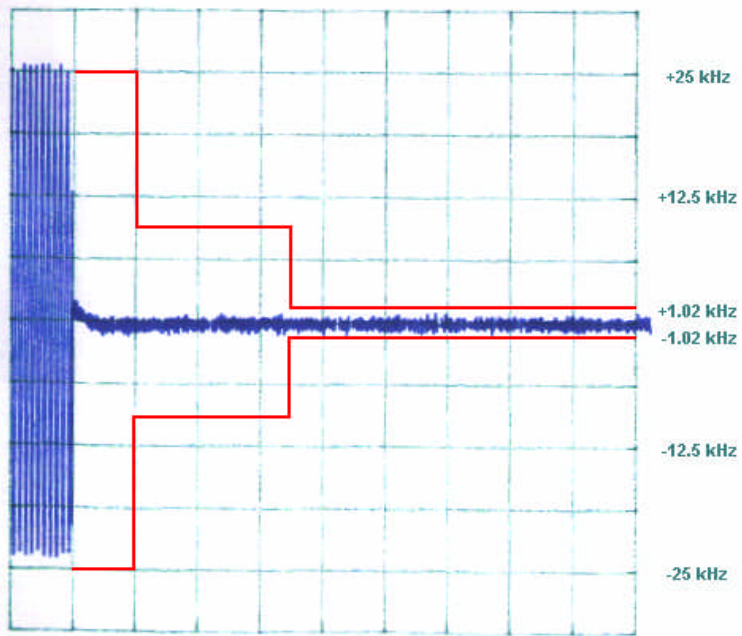
Model No: LEDR 400S S/N: _____ Tested By: HT

FCC ID: _____ Temp: 25°C RH: 65%

MODULATION OFF

Transmitter ON Transient Response

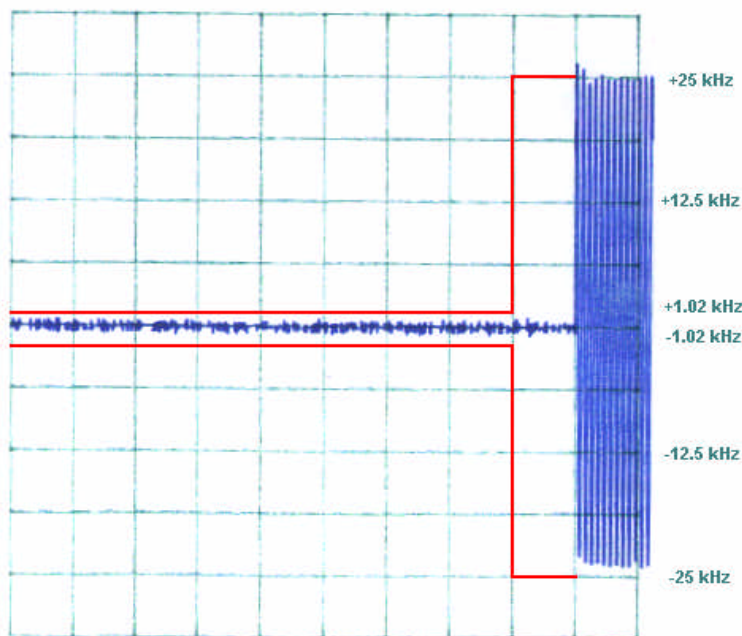
23: 48: 06 00 Aug 13



REGO A⁻ 533mV + 0mV T: 10ms MUL DC 00-08-13
B: 200mV + 0mV D: - 1DIV \ EXT

Transmitter OFF Transient Response

00: 01: 22 00 Aug 14



REGO A⁻ 533mV + 0mV T: 10ms SNG DC 00-08-13
B: 200mV + 0mV D: - 9DIV X A 23: 56: 48



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Transmitter Transient Response Measurements

Date: 25 AUG. 2007

Company Name: MICROWAVE DATA

Product Tested: LEDR 400S

Model No: LEDR 400S

S/N: _____

Tested By: HT

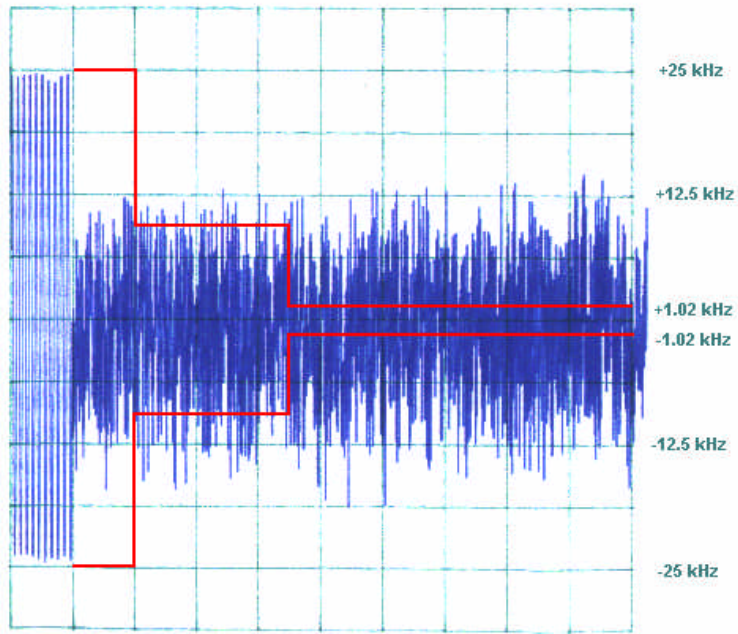
FCC ID: _____

Temp: 23°C RH: 65%

MODULATION ON

Transmitter ON Transient Response

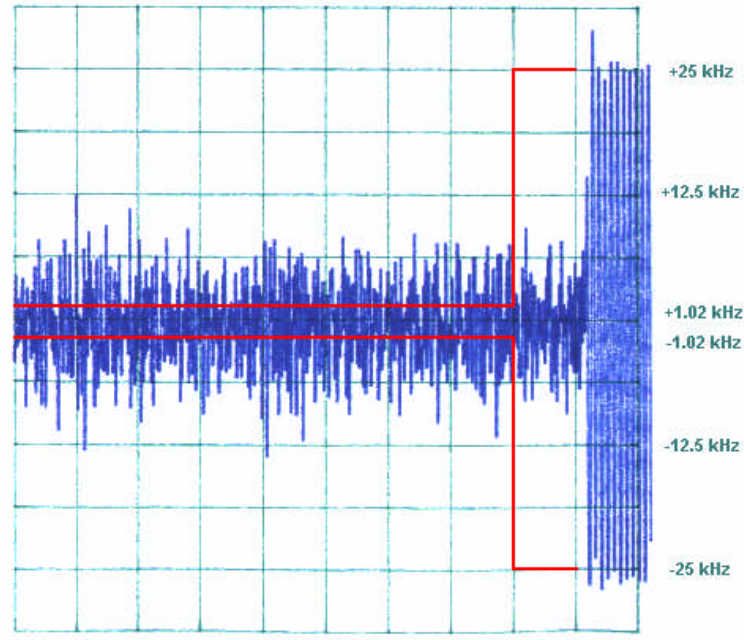
22: 42: 25 00 Aug 13



REG0 A~ 539mV + 0mV T: 10ms SNG DC 00-08-13
B: 200mV + 0mV D: - 1DIV X EXT

Transmitter OFF Transient Response

23: 20: 18 00 Jul 29



REG0 A~ 1.18 V T: 10ms REC AC 00-07-29
B: 200mV D: - 9DIV / EXT