

ANNEX 1 - PLOTS OF MEASUREMENTS

Exciter, Model E95

PLOT # 1
FCC ID: PQGE95
IC: 4113E95



LYNGSOE INDUSTRIES LTD.

E95 TRANSMITTER TAG

Tx Freq.: 125.5 kHz

DUTY CYCLE

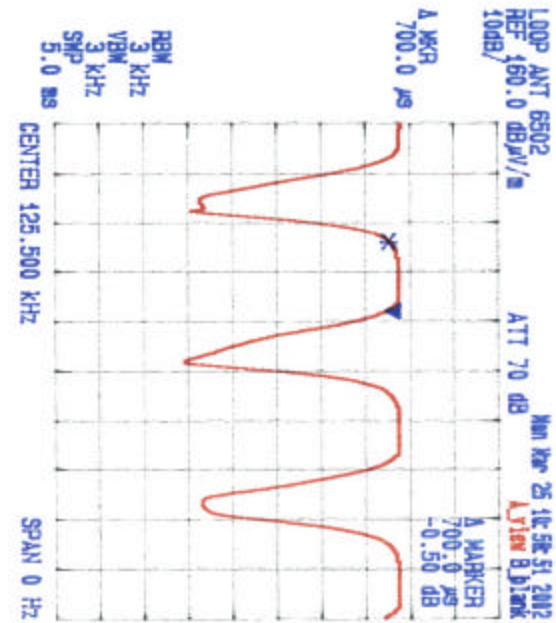
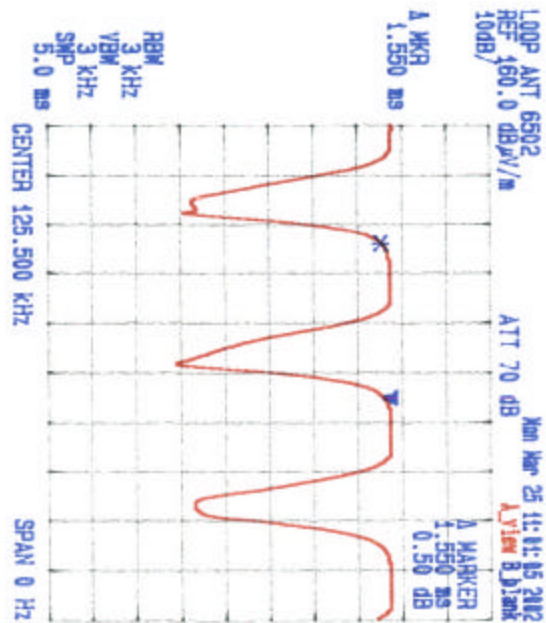
MODULATION: OOK WITH 600 Hz

$$\text{DUTY CYCLE} = \frac{700 \mu\text{s}}{1.55 \text{ ms}} \times 100\% = 45.2\%$$

$$20 \log(0.452) = -6.9 \text{ dB}$$

Date: March 25 2002
Tested by: Hung Trinh

PLOT #1



ANNEX 1 - PLOTS OF MEASUREMENTS
Exciter, Model E95

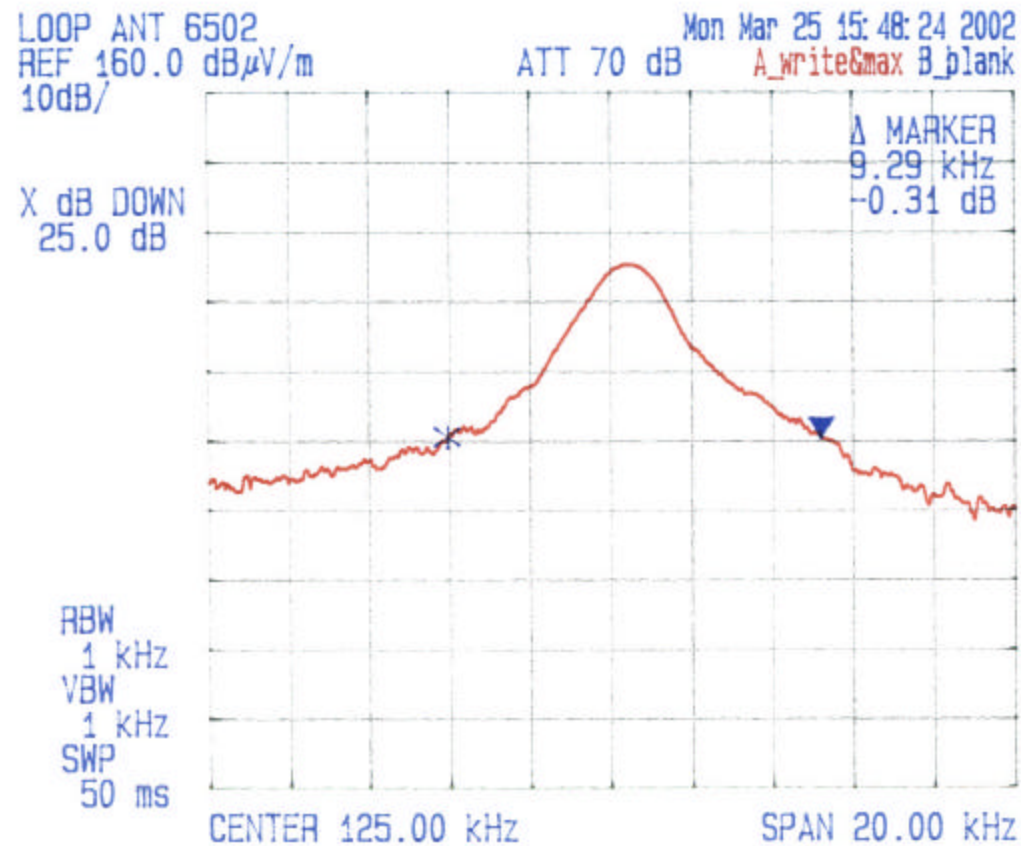
PLOT # 2
FCC ID: PQGE95
IC: 4113E95



LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq: 125.0 kHz
25% Bandwidth

Date: March 25 2002
Tested by: Hung Trinh

PLOT # 2



Exciter, Model E95

FCC ID: PQGE95

IC: 4113E95



UltraTech
Engineering Labs Inc.

LYNGSOE INDUSTRIES LTD.

E95 TRANSMITTER TAG

Tx Freq: 12.5 MHz

99 % OBW

OOK MODULATION WITH 800 Hz

Date: March 25 2002

Tested by: Hung Trinh

PLOT #3

LOOP ANT 6502
REF 160.0 dB μ V/m
10dB/

OBW %
99.0 %

RBW
1 kHz
VBW
1 kHz
SWP
50 ms

Mon Mar 25 11:11:21 2002
ATT 70 dB A_view B_plank

OBW, Fc
8.71 kHz
125.87 kHz

CENTER 125.00 kHz

SPAN 20.00 kHz

ANNEX 1 - PLOTS OF MEASUREMENTS

Exciter, Model E95

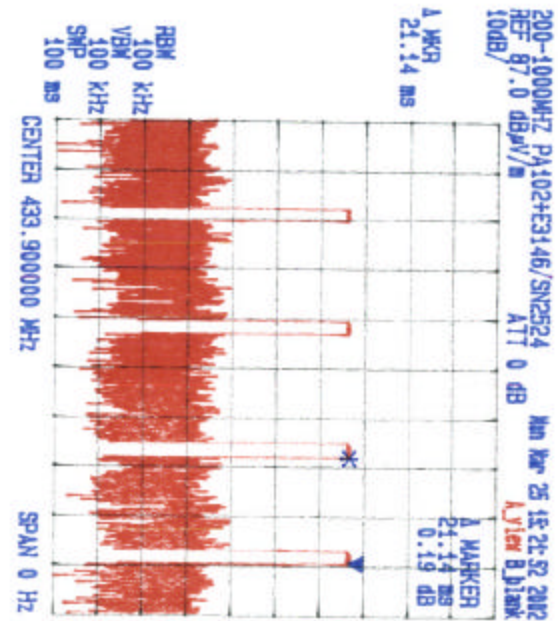
PLOT # 4
FCC ID: PQGE95
IC: 4113E95



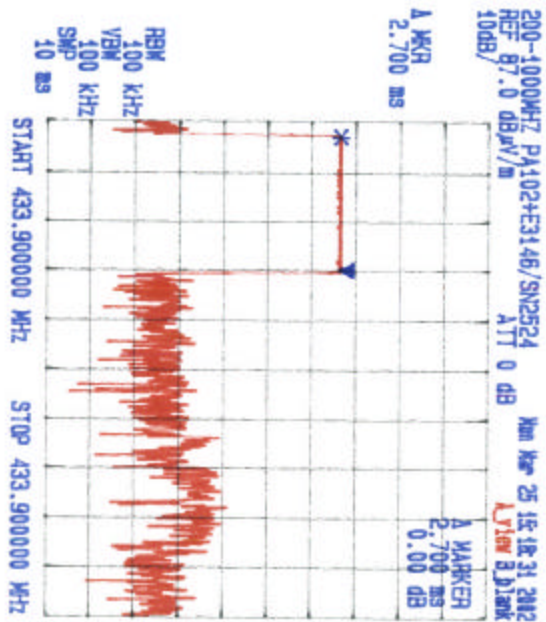
LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 433.9 MHz
DUTY CYCLE
FSK MODULATION

Date: March 26 2002
Tested by: Hung Trinh

PLOT #4



$$\text{Duty cycle} = \frac{2.7ms \times 4}{160ms} = 0.108 \text{ or } -19.3dB$$



ANNEX 1 - PLOTS OF MEASUREMENTS
Exciter, Model E95

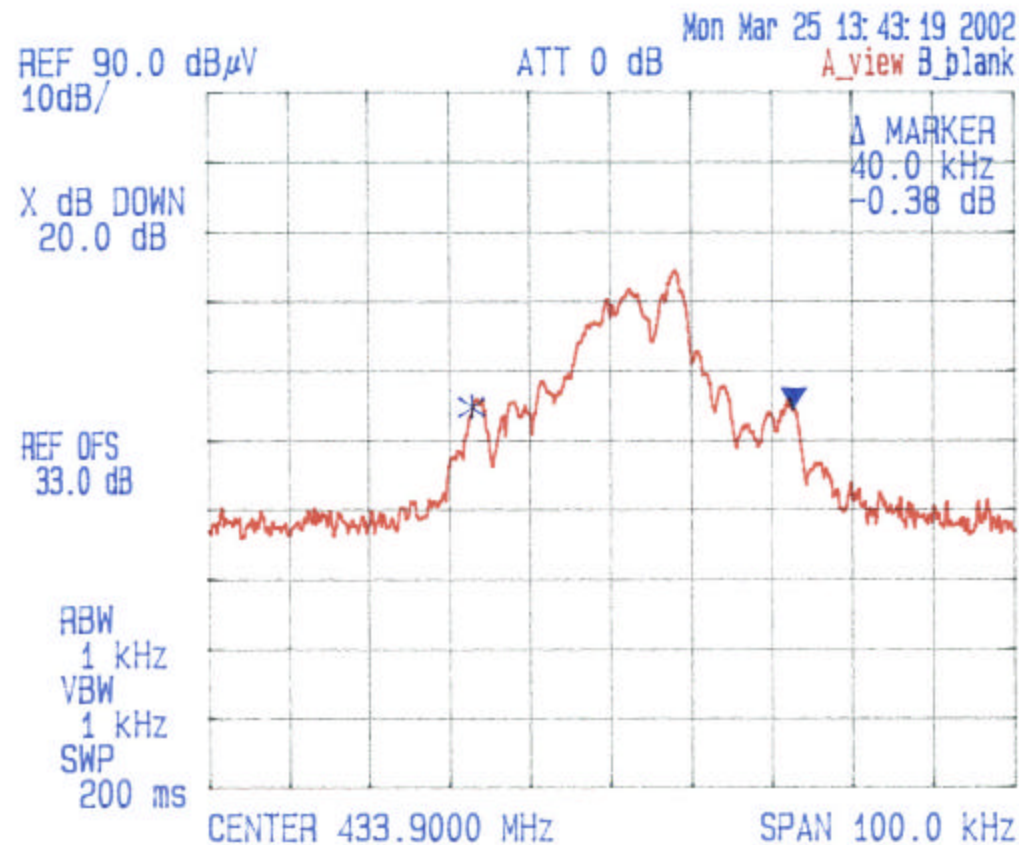
PLOT # 5
FCC ID: PQGE95
IC: 4113E95



LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq.: 433.9 MHz
20 dB Bandwidth

Date: March 25 2002
Tested by: Hung Trinh

PLOT # 5



ANNEX 1 - PLOTS OF MEASUREMENTS
Exciter, Model E95

PLOT # 6
FCC ID: PQGE95
IC: 4113E95



LYNGSOE INDUSTRIES LTD.
E95 TRANSMITTER TAG
Tx Freq: 433.9 MHz
99 % OBW

Date: March 25 2002
Tested by: Hung Trinh

PLOT#6

