

# 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

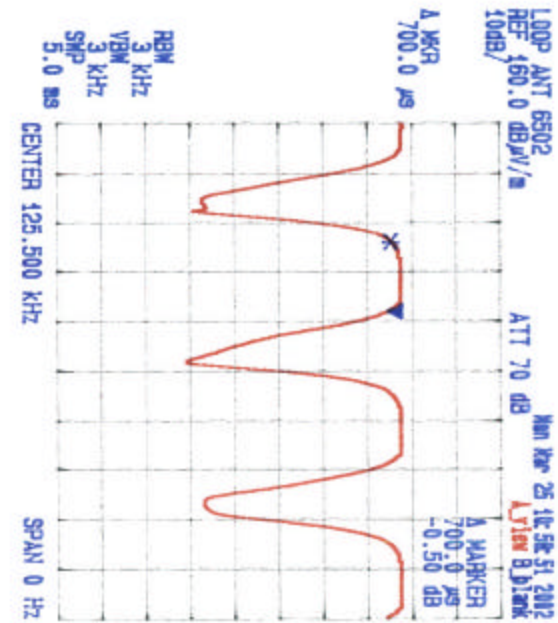
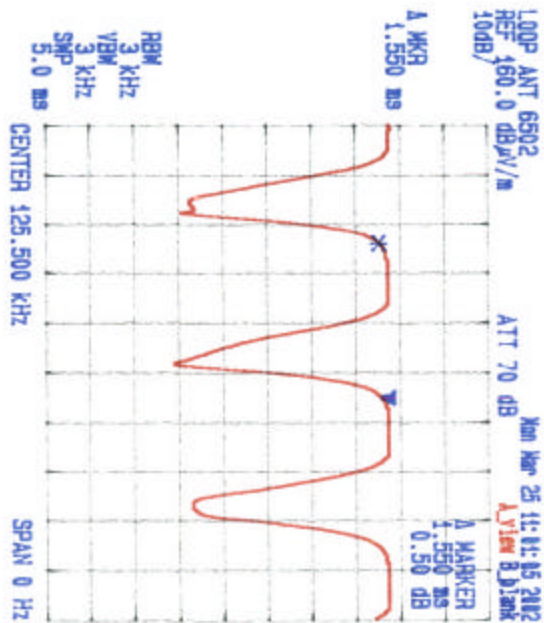
MODULATION: OOK WITH 600 Hz

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

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

Date: March 25 2002  
Tested by: Hung Trinh

PLOT #1



**ANNEX 1 - PLOTS OF MEASUREMENTS**  
Exciter, Model E95

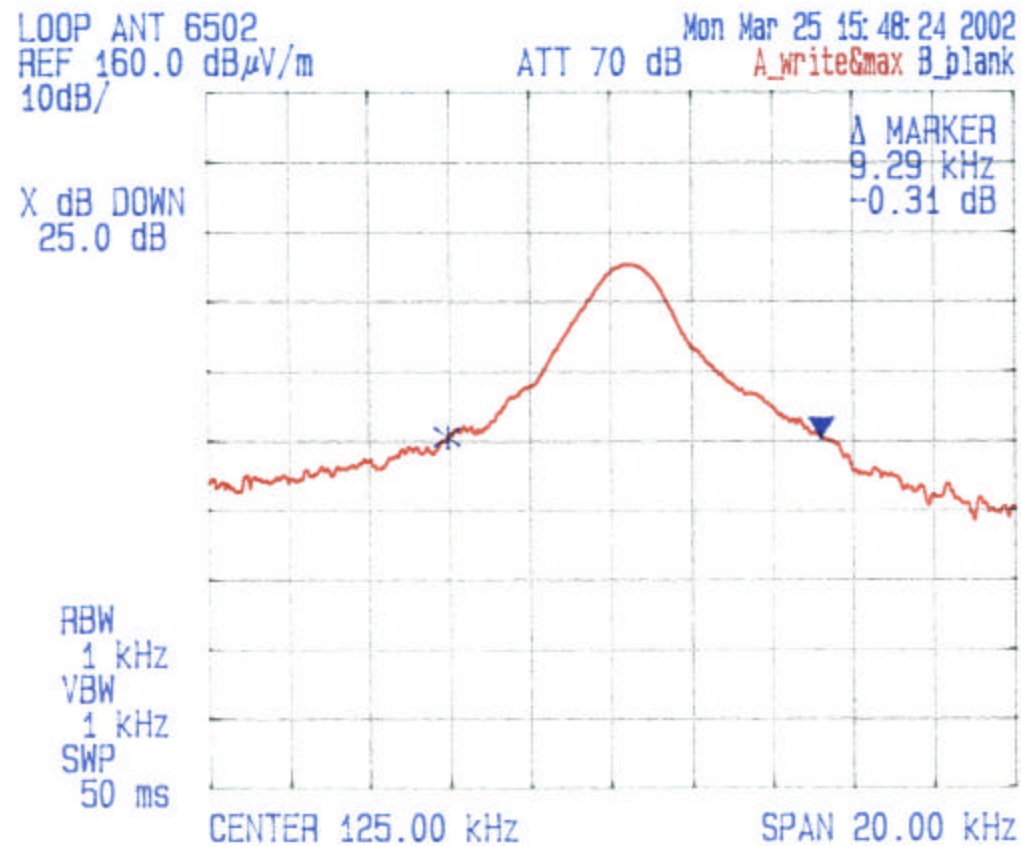
**PLOT # 2**  
FCC ID: PQGE95  
IC: 4113E95



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

Date: March 25 2002  
Tested by: Hung Trinh

PLOT # 2



# ANNEX 1 - PLOTS OF MEASUREMENTS

Exciter, Model E95

PLOT # 3  
FCC ID: PQGE95  
IC: 4113E95



LYNGSOE INDUSTRIES LTD.

E95 TRANSMITTER TAG

Tx Freq.: 125 kHz

99 % OBW

OOK MODULATION WITH 300 Hz

Date: March 25 2002  
Tested by: Hung Trinh

PLOT # 3

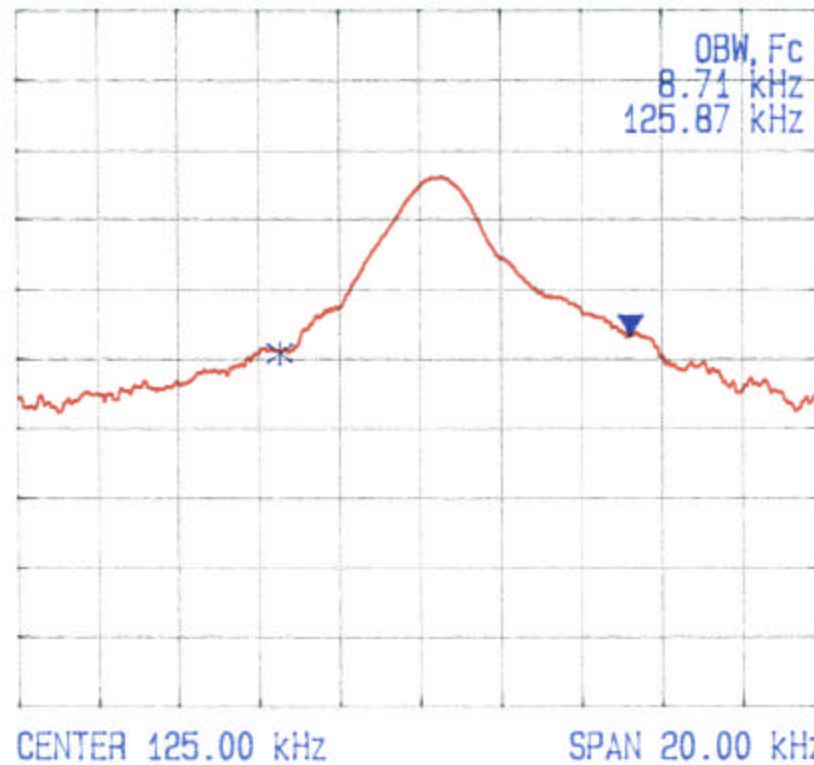
LOOP ANT 6502  
REF 160.0 dB $\mu$ V/m  
10dB/

Mon Mar 25 11:11:21 2002  
ATT 70 dB  
A\_view B\_blank

OBW %  
99.0 %

OBW, Fc  
8.71 kHz  
125.87 kHz

RBW  
1 kHz  
VBW  
1 kHz  
SWP  
50 ms



# ANNEX 1 - PLOTS OF MEASUREMENTS

Exciter, Model E95

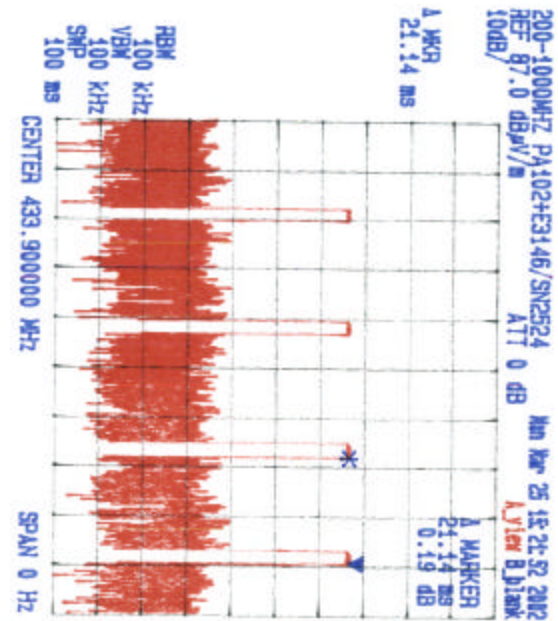
**PLOT # 4**  
**FCC ID: PQGE95**  
**IC: 4113E95**



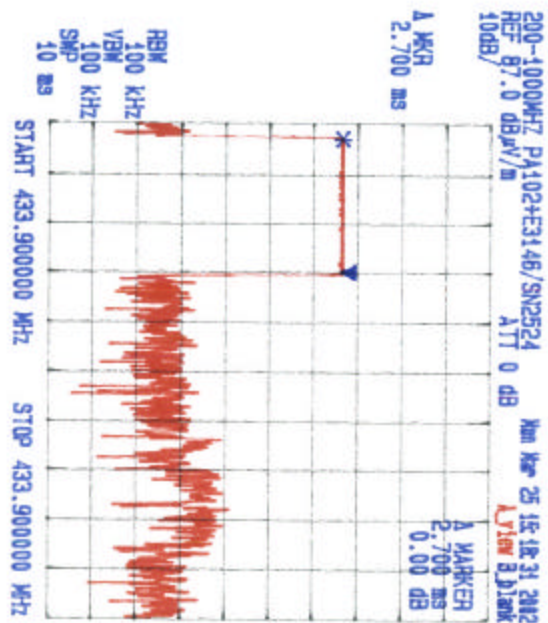
LYNGSOE INDUSTRIES LTD.  
 E95 TRANSMITTER TAG  
 Tx Freq.: 433.9 MHz  
**DUTY CYCLE**  
FSK MODULATION

Date: March 26 2002  
 Tested by: Hung Trinh

PLOT #4



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



**ANNEX 1 - PLOTS OF MEASUREMENTS**  
Exciter, Model E95

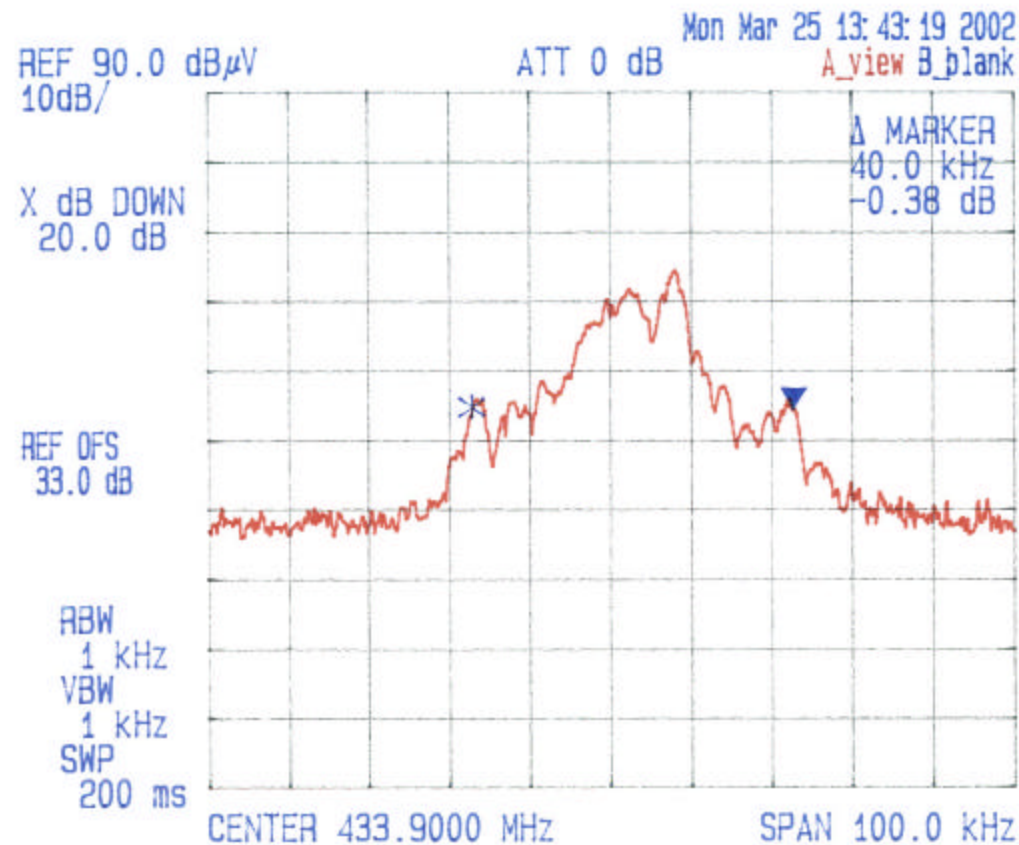
**PLOT # 5**  
FCC ID: PQGE95  
IC: 4113E95



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

