

SPECIFICATIONS FOR ROYCE FIELD SITE SOURCE  
EMCO MODEL 4610

**Description:** The Royce Field Site Source is a self-contained battery operated unit which is to be used as a radiated emission reference. When in operation, the unit radiates a comb of signals between 10 MHz spaced in 10 MHz increment.

**Electrical Specifications:**

Frequency Range:	10 MHz to 600 MHz
Frequency Spacing:	10 MHz increments
Operating Temperature:	-10 degrees C to +55 degrees C.
Frequency Stability:	Less than 400 Hz per hour noncumulative.
Amplitude Stability:	Less than +/- 1.0dB at each frequency during the normal charge life of the battery.
Verification Data:	This unit is supplied with actual data which shows the comb of signals between 10 and 600 MHz. This data can be verified at any time by removing the transmitting rod and connecting the output of the unit to a spectrum analyzer.
Batteries:	The unit is supplied with two 6 volt sealed lead acid batteries. The batteries. The batteries will operate for approximately 20 hours between charges.
Battery Low Indicator:	The Battery Low Indicator Light will come on when the battery requires recharging.

Battery Charger:

Option 1 - 110 VAC/60 Hz  
Option 2 - 220 VAC/50 Hz  
There is a charger port located on the front of the unit to plug in the charger.

Power On Indicator:

When the power switch is pushed, the power on indicator light will come on indicating that power has been applied to the unit.

Fuses:

This unit has two 1/2 Amp 3AG fuses, regular blow.

Mechanical:

Size:

7.4" x 4.6" x 3.5"  
18.8cm x 11.8cm x 8.9cm

Weight:

Approx. 3.5 lbs. (1.59kg)

Tripod Mounting:

A 1/4-20 hole is provided on the base for tripod mounting. Also, the unit has four pads provided for setting the unit on top of a flat surface.

Antenna Element:

The antenna element is 7 inches (180mm) in length.

HP

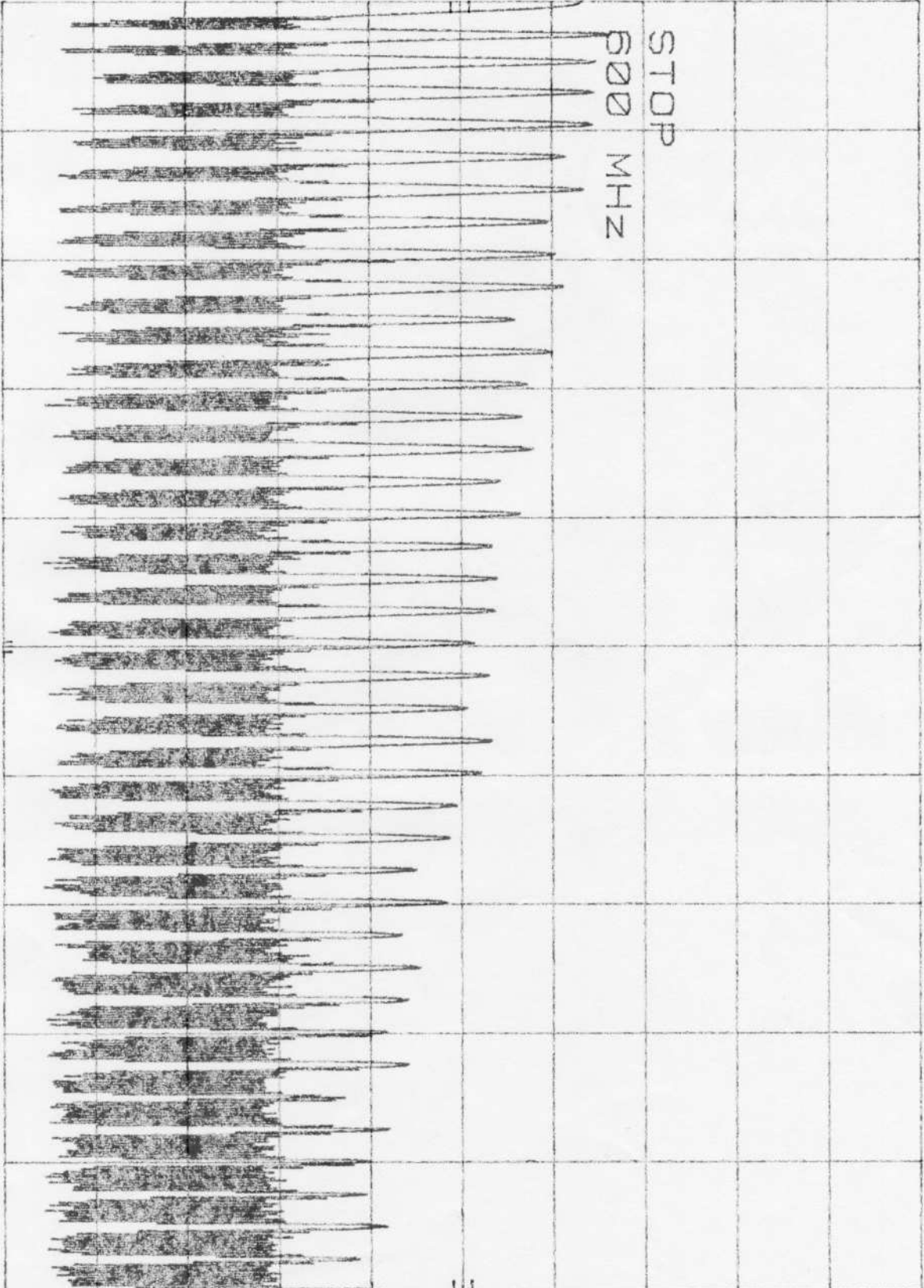
REF 0.0 dBm

ATTEN 10 dB

10 dB/

STOP

600 MHz



START 200 MHz

RES BW 1 MHz

VBW 3 MHz

SWP 20.0 msec

STOP 600 MHz



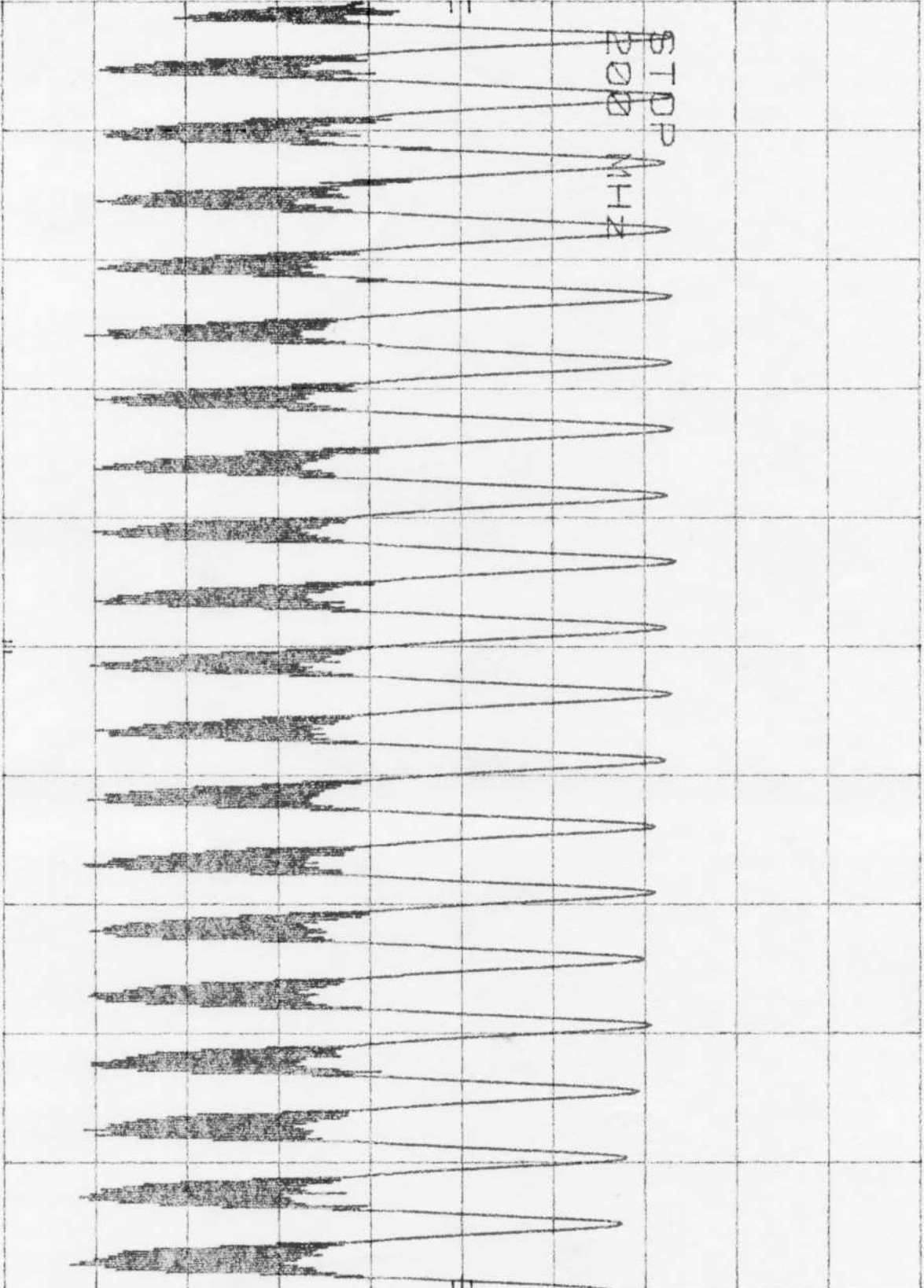
HP

REF 0.0 dBm

ATTEN 10 DB

10 DB/

STOP  
200 MHz



START 5 MHz  
RES BW 1 MHz

VBW 3 MHz

STOP 200 MHz  
SWP 20.0 msec