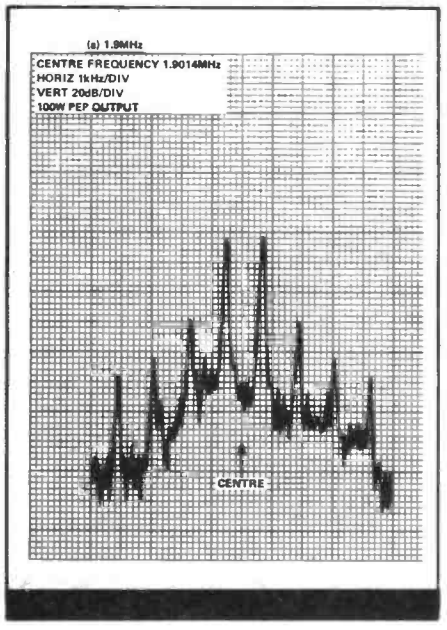

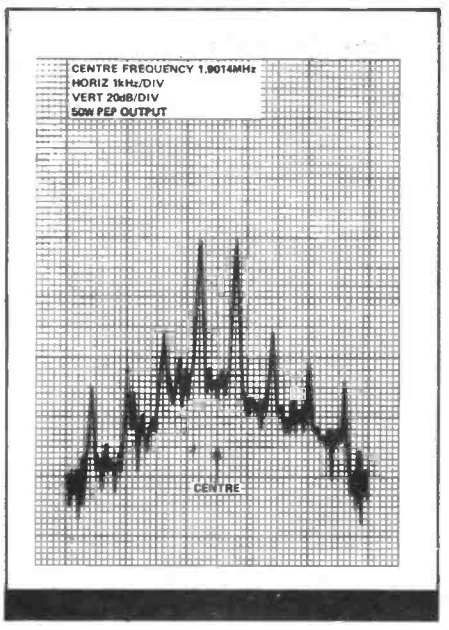

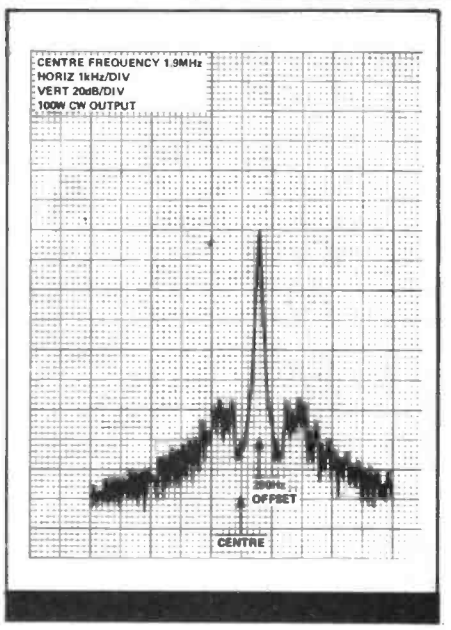

and the internal speaker will probably give up. All the rotary switches are positive in action, without needing a lot of force.

The other 20 controls...

On the upper level, to the right of the frequency meter, are the Loading, Plate, and Drive controls. The latter controls the carrier level on CW, AM & FM, and the drive to the processor on SSB effectively enabling control over the power output, down to well under 500mW.

To the right of the tuning knob, are six pushbuttons, two controlling the ABC for fast or slow, and on/off. The next looks after the ALC meter, toggling between normal and Peak Hold, another useful feature. The two remaining buttons are the Rx/Rx clarifier select, both complemented by adjacent red LED's as reminders. It is here that a disadvantage of the rig shows up (although it is not alone in this respect), if you ever work any DX-peditions.

The Clarifier (or IRT/ITT) control only allows +3.6/−3.2kHz excursions from the nominal frequency (the handbook states +/−2.5kHz or more). As the FT-102 does not have any memory facility, or dual VFO's etc, it is not possible to work even the lowest split frequency encountered, which is normally "5-up or down". Looking at the circuit shows that this could be easily modified if you want 5kHz or more shift and aren't afraid to dive inside.

Moving to the remaining controls we find the meter select switch, followed by the band change, covering all of the new WARC frequencies, with the additional 500kHz bands required for complete coverage of 10 metres obtained by an additional pushbutton. A Preselect control is fitted with which the selectable RF amplifier is tuned to receive, and the transmitter driver stage. This has a fairly broad tuning response on receive, but is sharper on transmit.

3 dual concentric controls complete the facilities — the clarifier control is teamed with a Tone control, although the response of this seems to be mainly restricted to the first half of its travel. Two more of the filter facilities follow, the first a tuneable I.F. notch filter, selected by an additional pushbutton, the other a tuneable Audio Peak Filter, again pushbutton selectable. The