

Scoring: (a) 1; (b) 2; (c) 2; (d) 2; (e) 2; (f) 3.

In (c), a rough estimate of the cut-off 1 point

In (f), plot of the cut off 2 point, Fabry Perot oscillation 1 point.

The figure shows the experimental arrangement for the measurement of the cut-off frequency of a waveguide. A microwave source is connected to a waveguide of length  $L$ . The waveguide is terminated by a short circuit. The voltage standing wave ratio (VSWR) is measured at the input of the waveguide. The cut-off frequency is determined by the point at which the VSWR becomes infinite. The figure shows the VSWR as a function of frequency. The cut-off frequency is indicated by the point where the VSWR becomes infinite. The figure shows the VSWR as a function of frequency. The cut-off frequency is indicated by the point where the VSWR becomes infinite.

