g. Reduce the TVG-2 RF OUTPUT control and increase the CRO vertical gain control until the lowest setting of the RF OUTPUT control will give a good pattern. Readjust sweep dial to center pattern.

h. Turn on Marker Generator and set dial to 21.25 MC on "B" range, also turn modulation switch on and adjust marker output to maximum, and if the discriminator is not aligned a 400 cycle pattern will appear along the baseline through the S pattern. Adjust the secondary slug of the discriminator transformer (Point 3 on Figure 10) until the baseline is no longer modulated with the 400 cycle pattern. A null point will be reached where a slight turn either way will produce the modulation pattern. This is the correct setting for the secondary slug.

i. Leaving controls set the same, adjust the primary slug (Point 4 on Figure 10) to give a symmetrical pattern of maximum amplitude having equal deflection above and below the baseline.

j. Recheck the secondary alignment.

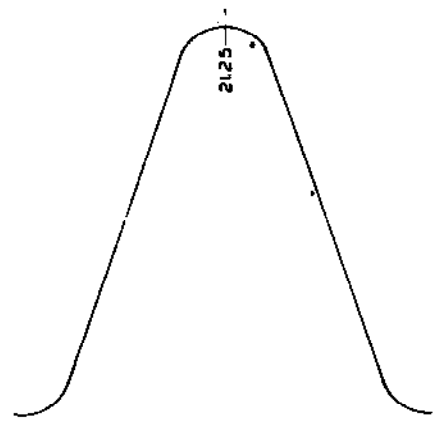

Figure 14
Sound I.F. Response Curve

5. Sound IF Transformer Alignment.

a. Connect high side of RF output from TVG-2 to the grid of the second sound IF stage (Point 5 of Figure 10) and the low side to ground.

b. Connect high side of the vertical input of scope through a 25K to 50K ohm resistor to Point 6 on Figure 10 and the low side to ground.

c. Adjust the primary slug (Point 7 on Figure 10) and the secondary slug (Point 8 on Figure 10) for maximum output and symmetry with 21.25 MC marker pip appearing at the center of response curve. Keep the TVG-2 output as low as possible to avoid overloading the amplifiers.

d. Change TVG-2 RF output to the grid of the preceding tube (Point 9 on Figure 10) and adjust the primary and secondary slugs (Point 10 and 11 on Figure 10) for maximum output and symmetry.