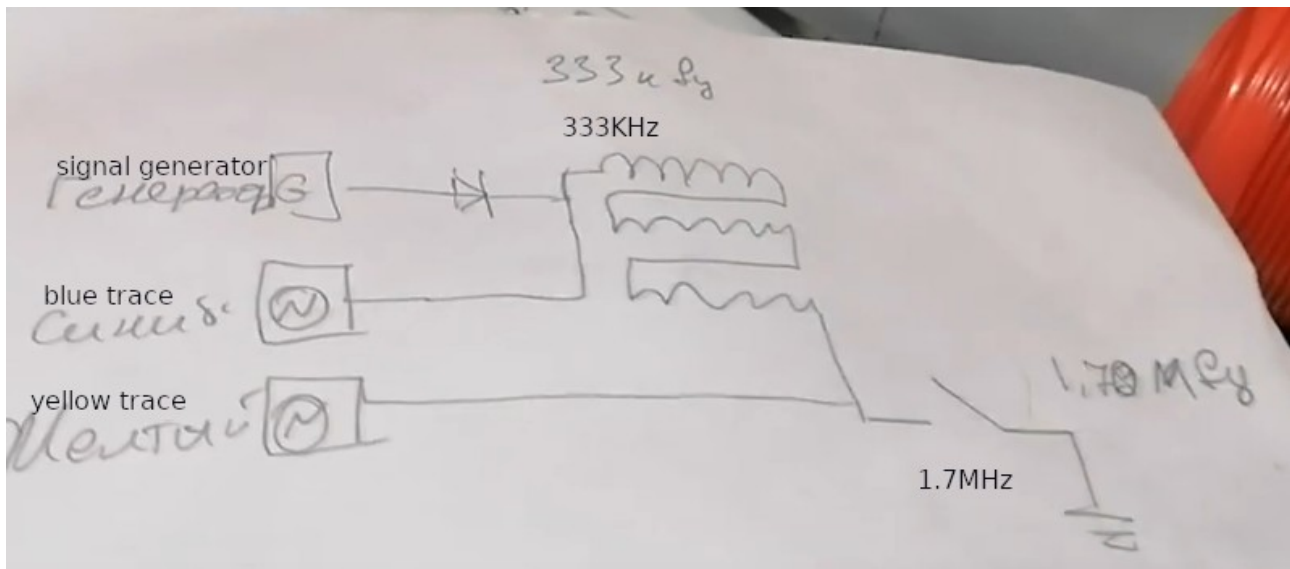


Source: <https://www.youtube.com/watch?v=JxRpBaQTGb4>

### Testing coils and ground wire frequency



pic. setup for measuring



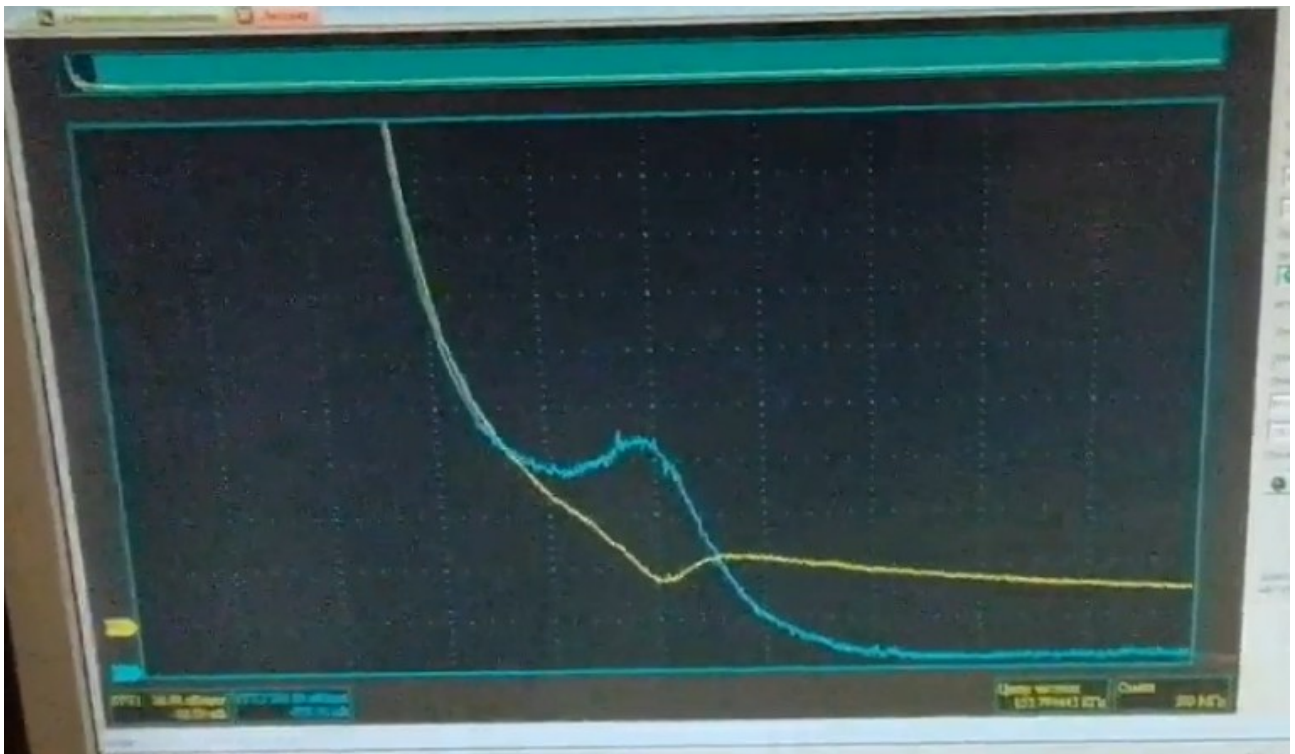
pic. 3 layer coil, resonance frequency 333khz



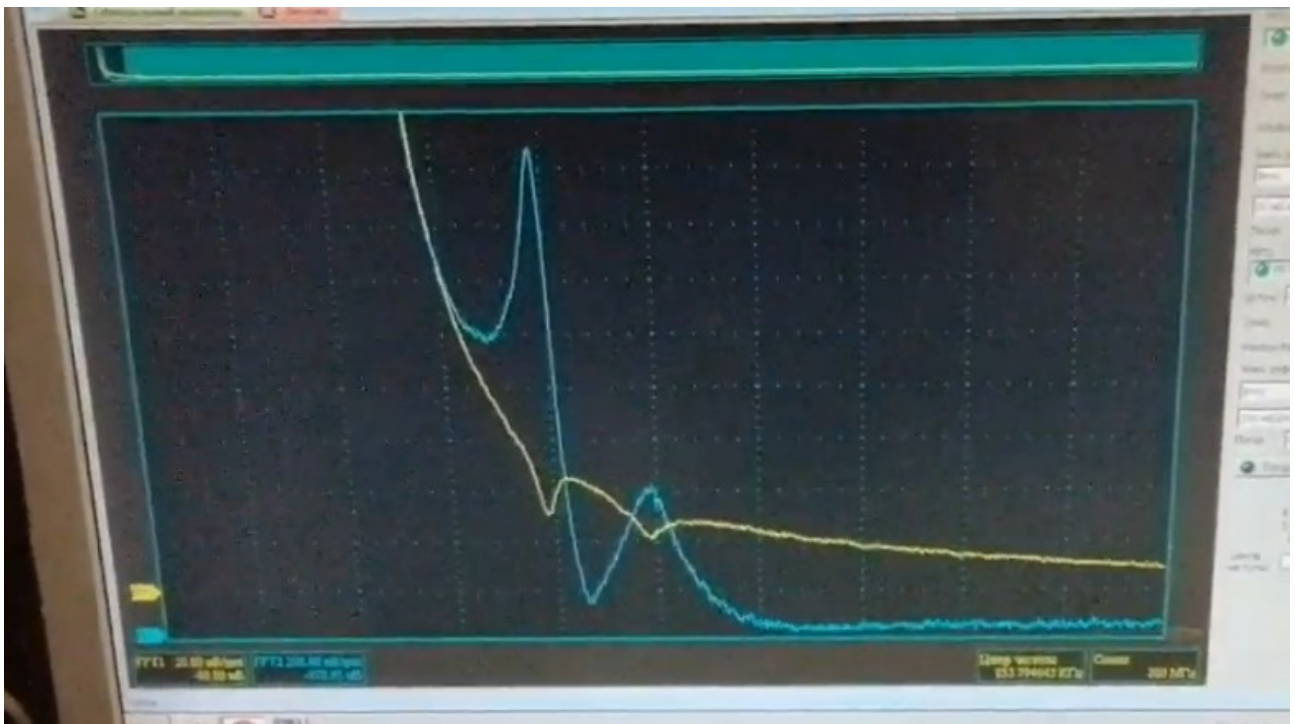
source: [https://www.youtube.com/watch?v=X5rTs\\_M0UCQ](https://www.youtube.com/watch?v=X5rTs_M0UCQ)

**Matching LC and wave resonance of the gradient coil**





pic. match



pic. LC resonance affected by a ferrite rod



pic. Time domain signals (1KHz 50%)

Notes:

1. when coil's and ground frequencies significantly different, both can be clearly visible
2. if frequencies are close, they start interacting, producing one new lower frequency