

Comparing the DYC-817 microphone compressor to the DF4ZS RF speechprocessor.

As you can hear on the comparison WAV file on

http://www.gsl.net/dg2iaq/mods/DG2IAQ_tests_DYC-817+DF4ZS.wav

there's a great improvement of the audio level by switching one of them on. I was monitoring a contest frequency on 20m with my FT-847 while I was transmitting with my FT-817 at the same time into a dummy load. So the signal level strength was equal to the other stations on the frequency and this gives a better comparison for real situations. You can hear my voice between the other stations and you can hear the improvement of this both mic amplifiers.

The first great improvement is that I'm using an electret capsule instead of the stock dynamic capsule. This gives me a wider audio range and a much higher audio level. So an additional mic compressor wouldn't produce as great differences as to the stock handmic MH-31 they're originally designed for.

The DYC-817 and the DF4ZS have a different behaviour cause of different techniques.

The DYC-817 compresses the mic input signal to get a nearly equal and constant output level while the DF4ZS uses RF clipping techniques. Cause the clipping is on the RF and not on the AF side you won't hear any distortions as on the cheap AF clippers. And you don't need an AF lowpass filter for it to reduce the harmonics so its audio sound is much „sharper“ and „metallic“ than the DYC-817 compressor.

As I'm a crazy man I was using both in addition, as you can see and hear on the 4. chapter.

Wow !!!! Compression A N D RF clipping fires up the tiny FT-817 again !....

But on of these nice circuits should be enough for most of the daily HAM work, hihi.

73,

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