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## RF-S5K (Variable RF Sampler – 4,000 Watts)

The model **RF-S5K** (Variable RF Sampler) is designed as a convenient, proven plug-and-play solution to directly sample and convert the RF envelope output from your high power amplifier into a usable signal suitable for feeding the Vertical "Y" input of your oscilloscope or establish a pre-distortion feedback signal for use with SDR based systems! This may also be used to establish a post-amplifier reference signal when used with our model RF-D for SplatterView operation!

Additionally, the **RF-S5K** may be used as an RF coupling probe for spectrum analysis, RF envelope observation for SSB, AM and CW modes or frequency counting and control. It features a passive-flat operational VSWR over a broad frequency range and insertion loss is a negligible 0.1 dB. The **RF-S5K** produces an un-rectified, variable and adjustable non-directional sample at the BNC jack, making the **RF-S5K** an ideal choice for a variety of applications.

All CleanRF Systems chassis are built, assembled and tested here in the USA headquartered near the grounds of WWV and are finished over by a baked-on black textured finish outer-coating for decades of continual service and performance. Connectors are custom long barrel SO239's for easy installation. Products are fully warrantied against any defects both electrically or mechanically and include BNC cables and adapters for plug and play operation!

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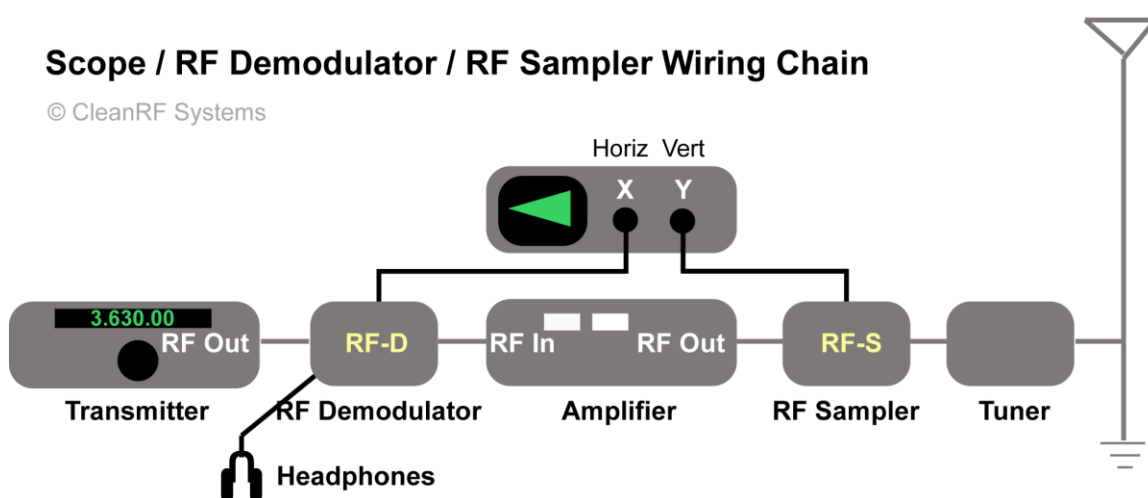
### RF-S5K Specifications

- Frequency Response: 3 ~ 30 MHz
- Rated Input: 0w ~ 4,000w PEP
- Sampler Output: -60dBm @ 15MHz
- Connectors In: SO-239
- Connectors Out: SO-239 and BNC
- Controls: Variable RF Output 6dB
- VSWR: < 1:1.1
- Insertion Loss: < 0.1 dB
- Cable and Adapter: 6 Ft. BNC Male-to-BNC Male and UHF Male-to-Male Adapter
- Applications:
  - Oscilloscope Vertical "Y" In (Post-Amplifier Reference Signal)
  - Pre-Distortion Sampling for use with Anan Pure Signal®
  - RF Modulation Envelope Monitor
  - Peak Envelope Power Monitor
- Dimensions: W 2 1/8" x L 3 1/4" x H 1 5/8"



### Scope / RF Demodulator / RF Sampler Wiring Chain

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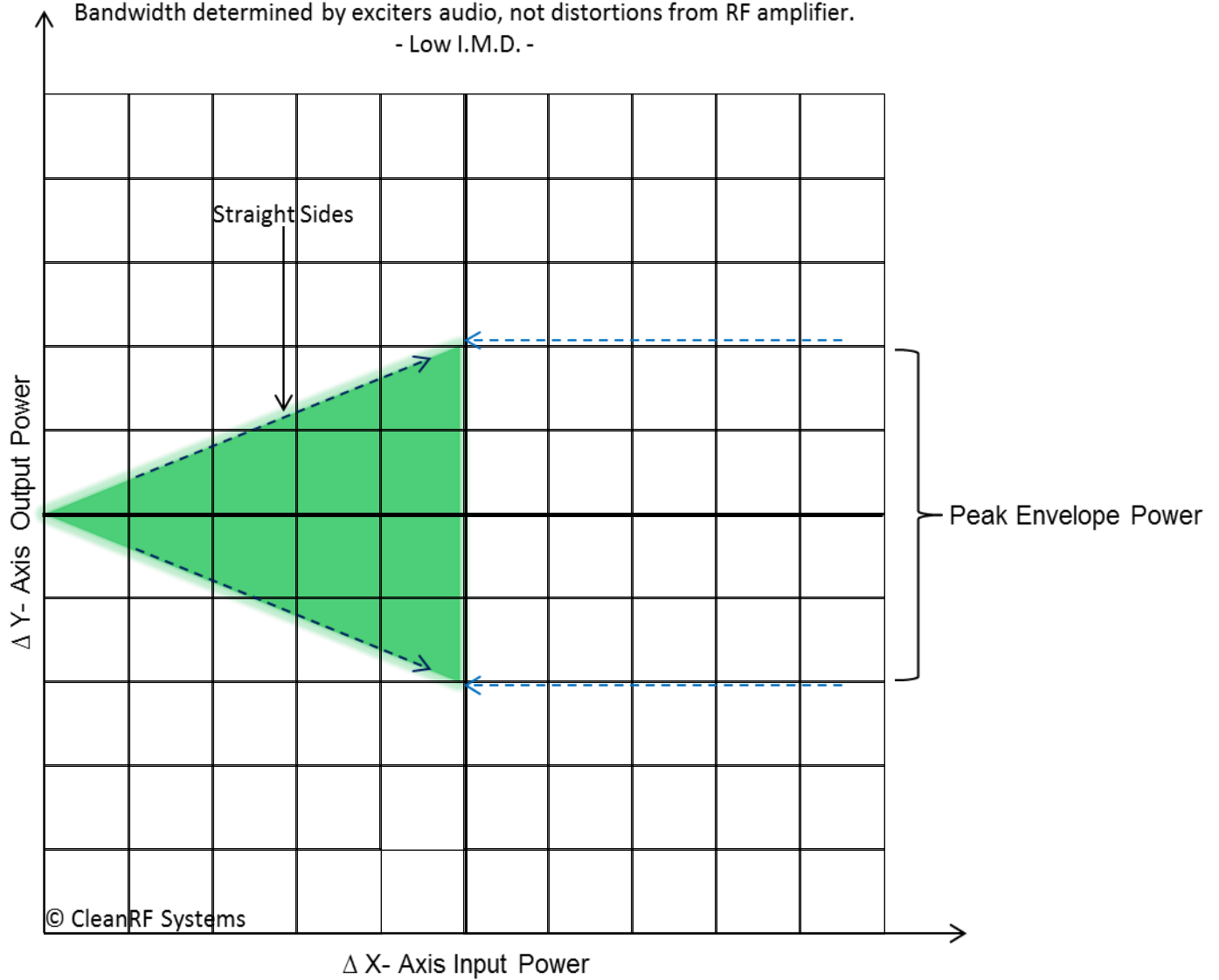


Trapezoidal Linear RF Pattern Provided by CleanRF Systems Splatter View.

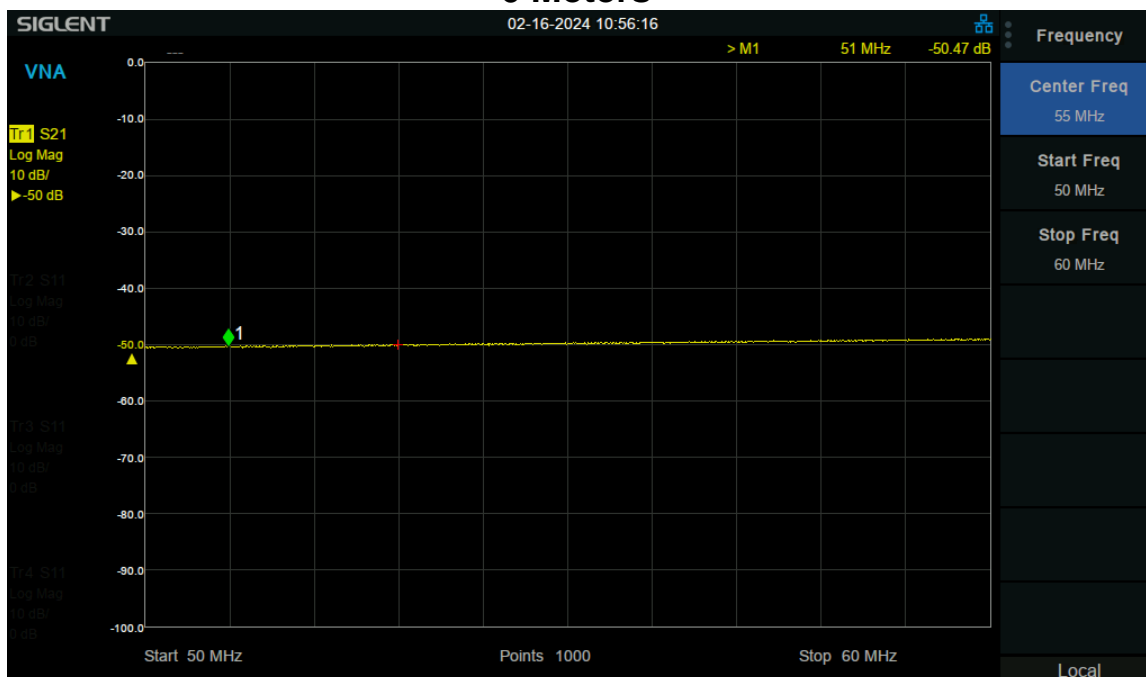
Note sides of Trapezoid are straight with distinct angles.

Bandwidth determined by exciter's audio, not distortions from RF amplifier.

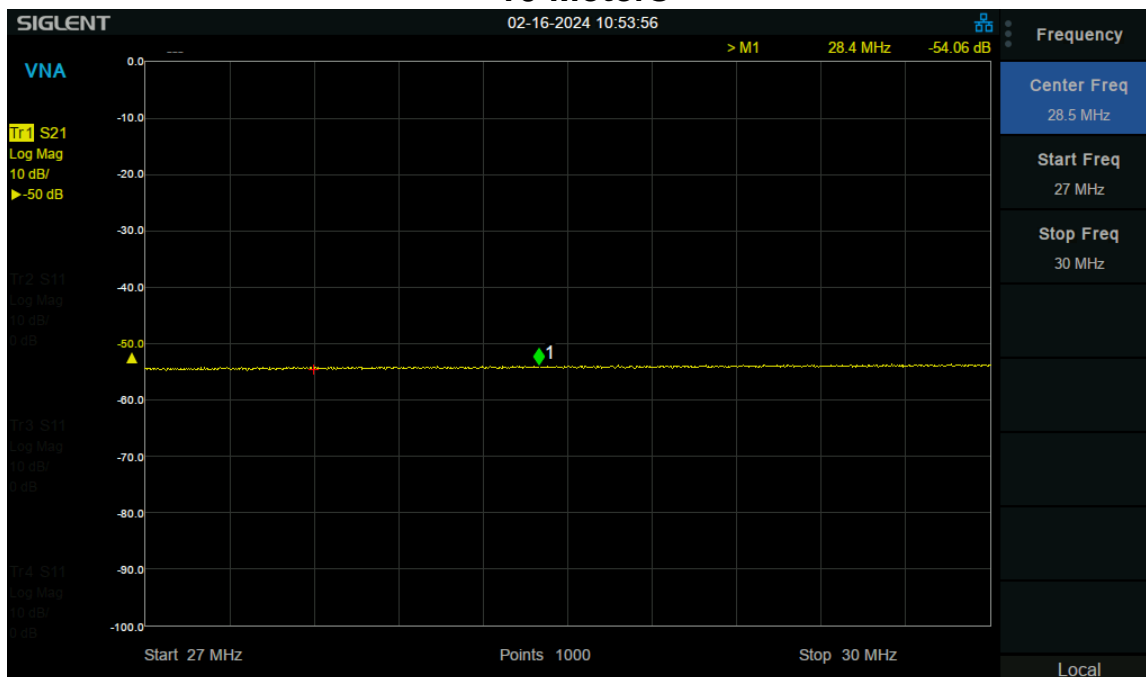
- Low I.M.D. -

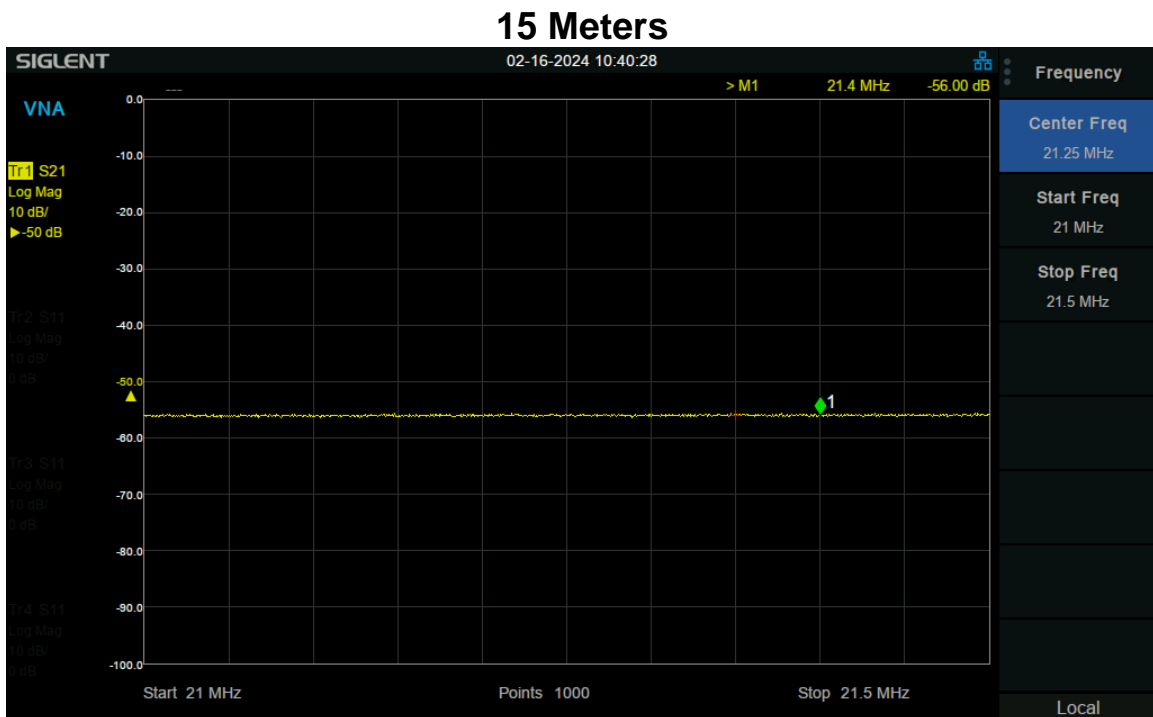
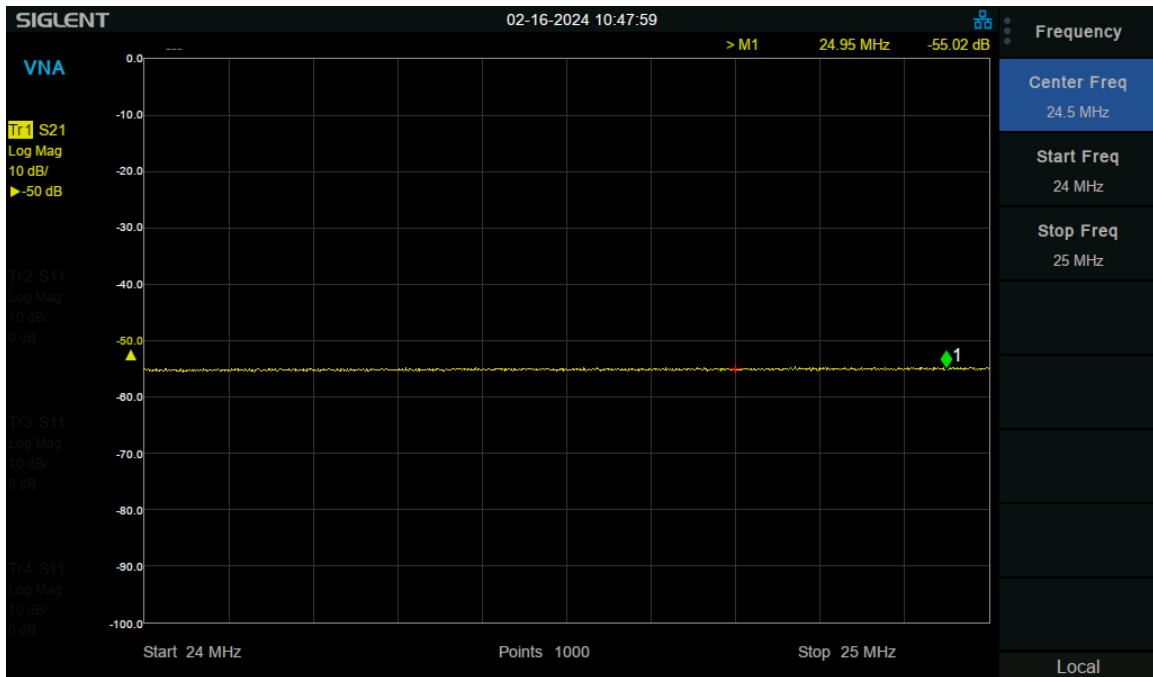


## 6 Meters

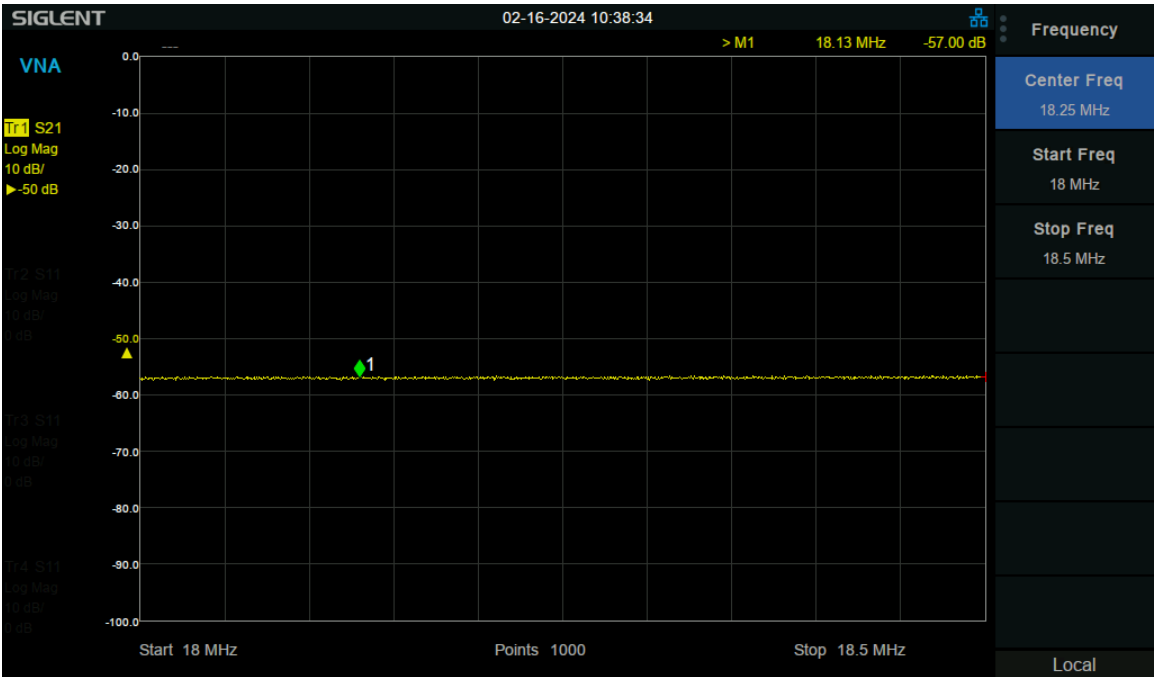


## 10 Meters

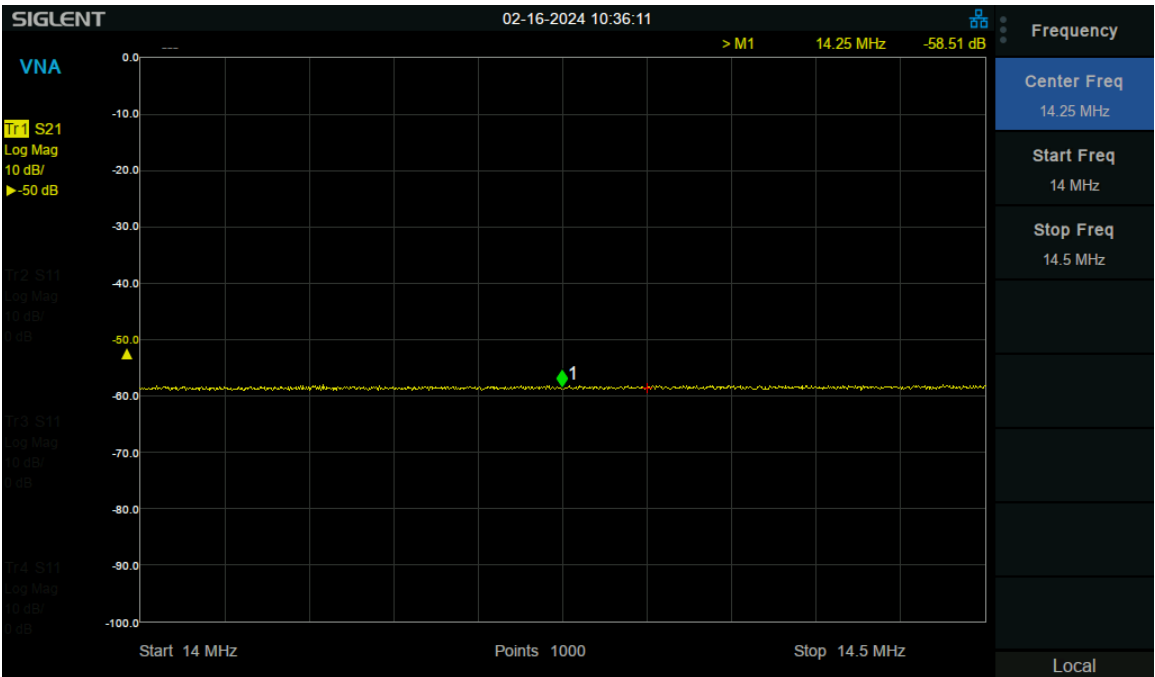




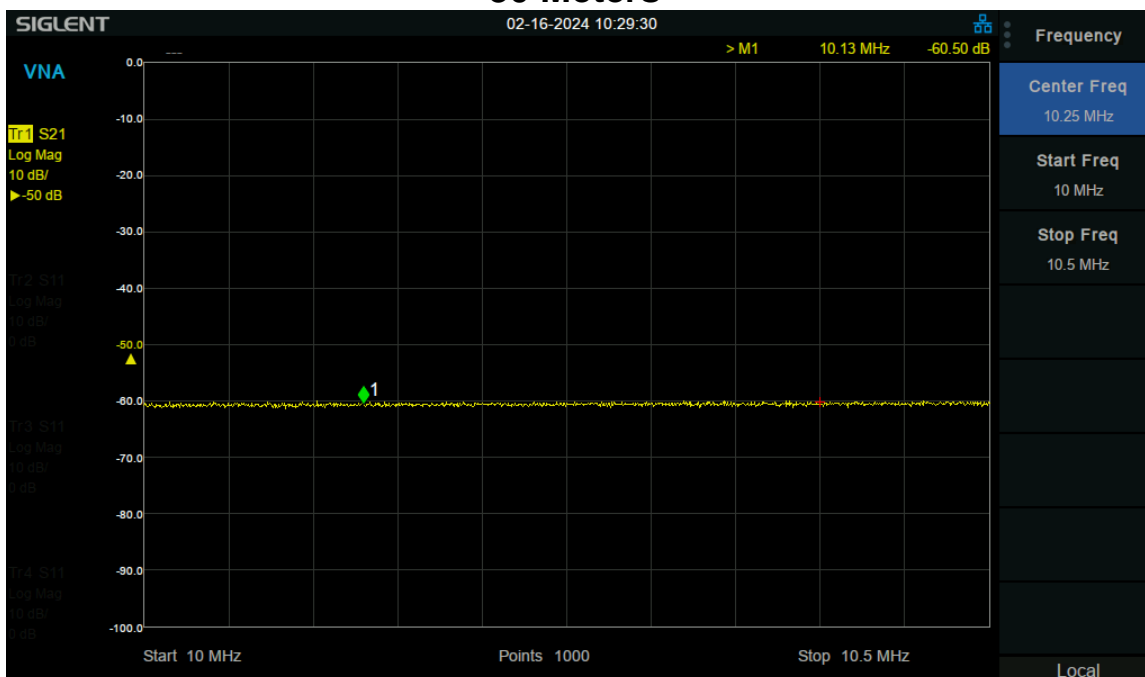
# 17 Meters



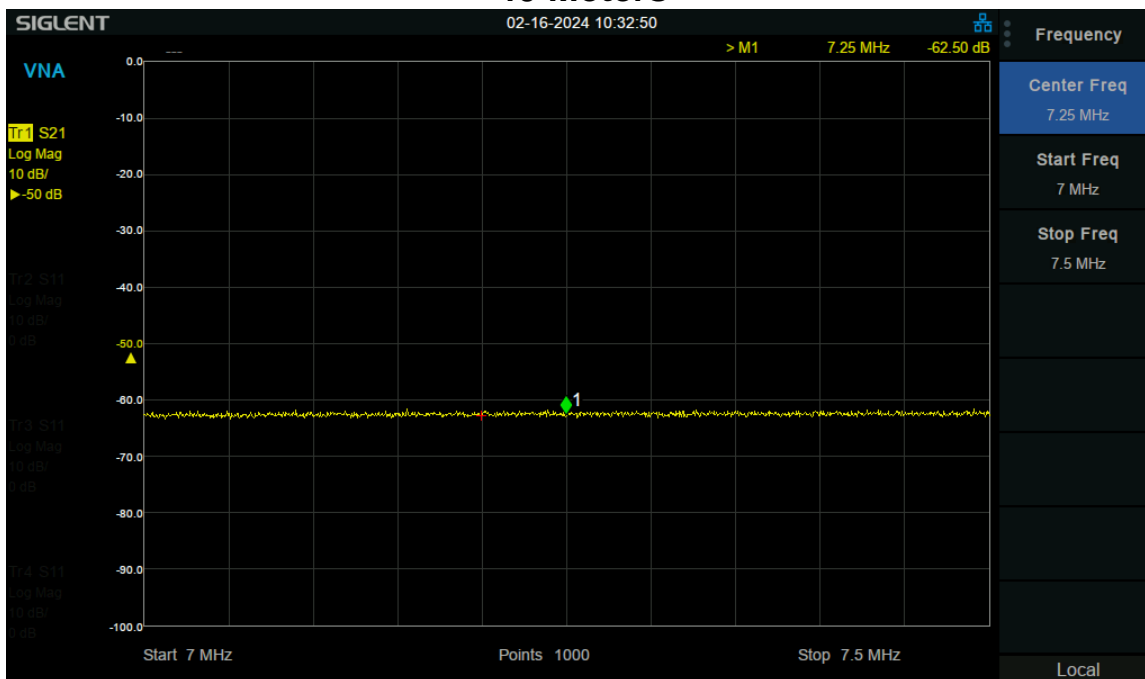
# 20 Meters



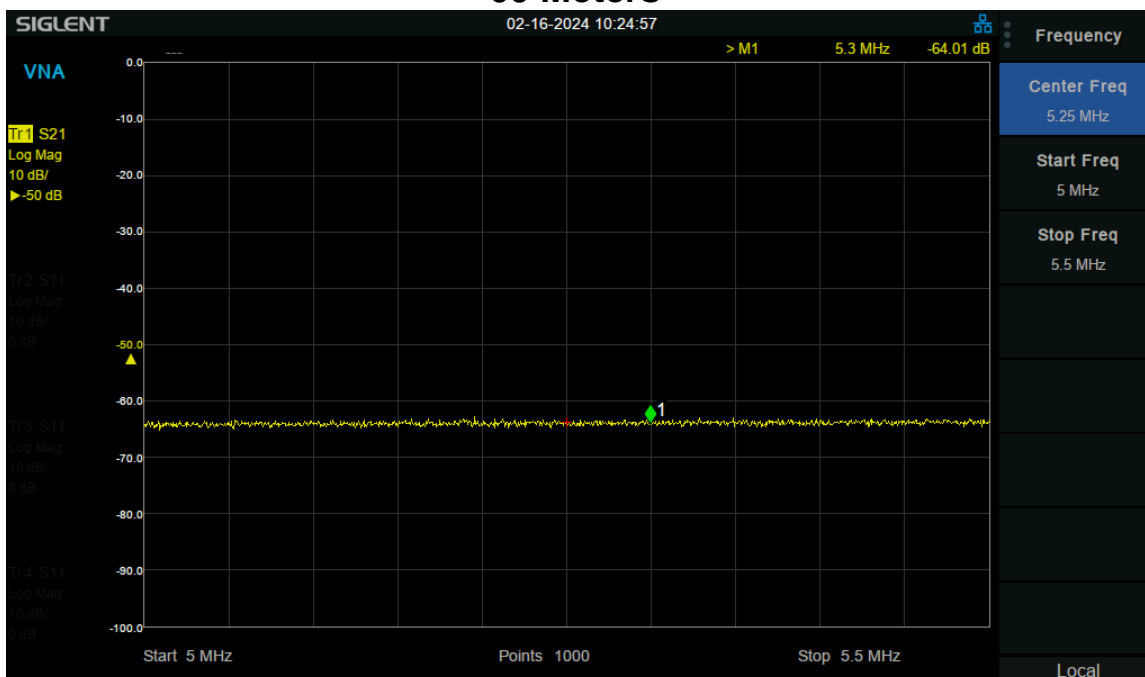
## 30 Meters



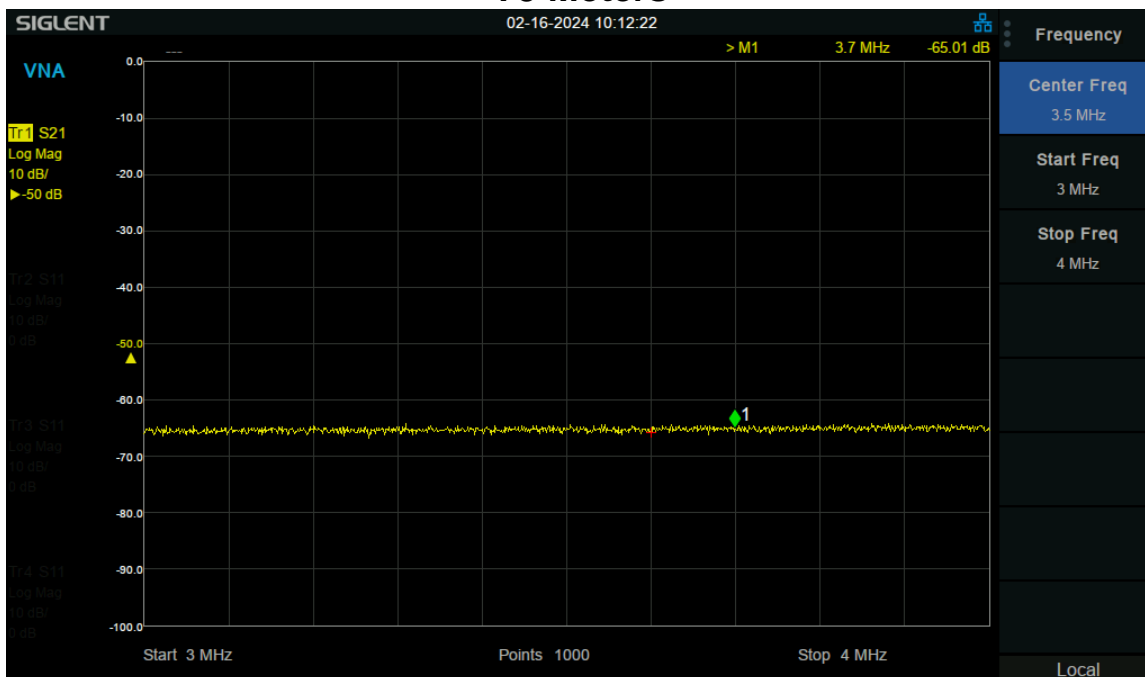
## 40 Meters



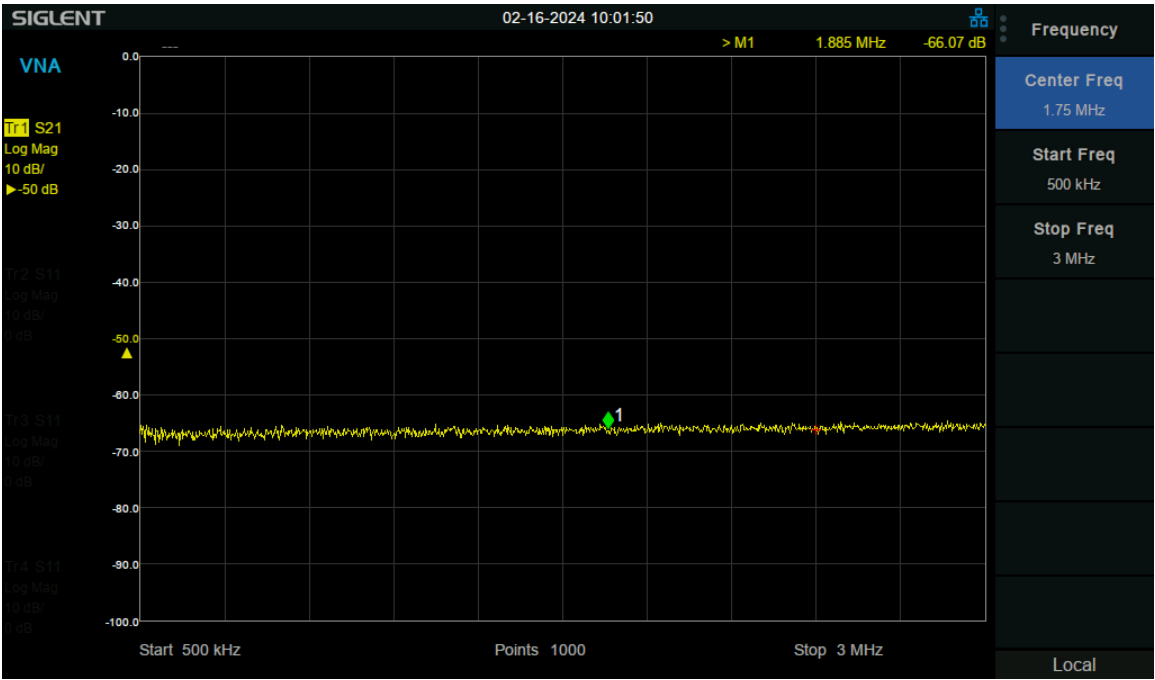
## 60 Meters



## 75 Meters



# 160 Meters



# FM



VHF

