DECODING FREEDV SIGNALS

USING WEBSDR CLOSER TO THE TRANSMITTING STATIONS

WHY FREEDV?

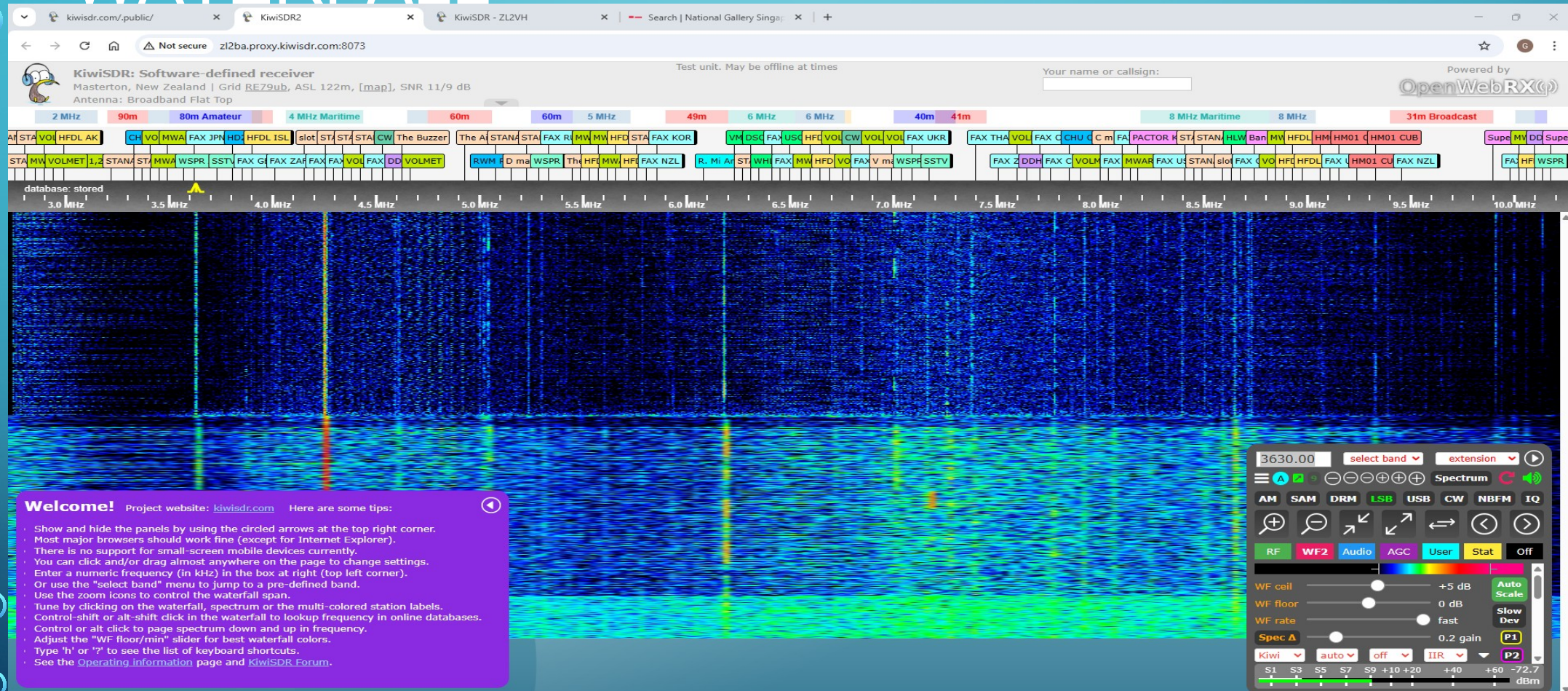| Metric	🎙️ SSB Voice (Analog)	🤖 FreeDV RADE V1
Intelligibility Threshold (SNR)	High 3 dB to+6dB)	Extreme Low -6dB to -8dB
Multipath & Fading	Poor. Severe distortion/drops out.	Excellent. Highly robust
Voice Quality	Excellent (Natural, High Fidelity)	Fair to Poor (Highly Synthetic/Robotic)
Latency (Delay)	Negligible	High Approx 500ms to 1000ms
PAPR	High approx. 10dB to 15dB	Moderate Approx 5dB to 6dB
Transmission Efficiency(Signal	1kHz	2.4kHz

FREEDV REPORTER

TWO STATIONS IN UK IN QSO – WEBSDR IN UK
DECODED WITH FREEDV SOFTWARE ON MY PC

- Typically QSOs on 80m. 60m, 40m sometimes 20m
- Stations not too far apart – same country.
- Stated to be using Low Power 10-30W (PEP)- expectedly
- Audio very clear minimal fading etc.
- -3dB SNR is easy copy.
- Commonly see copy reports of -6dB and lower.

FREEDV SIGNAL ON THE WEBSDR WATERFALL

DECODED SIGNAL

SNR -3dB