

Sherwood Engineering HF Test Results

Model Yaesu FT-736R	Serial # 51970130	Test Date: 12/20/2018
IF BW 2400 –6 /-60, Hz 2200/4500	Ultimate	80 dB
IF BW 500 –6 /-60, Hz 600/1200	Ultimate	80 dB
Dynamic Range (DR3)		
Dynamic Range 20 kHz		88 dB
Dynamic Range 10 kHz		80 dB
Dynamic Range 5 kHz		69 dB
Dynamic Range 2 kHz		66 dB
Blocking above noise floor, 1uV signal @ 100 kHz, AGC On, Note: At 20 kHz the radio blocks		125 dB
Reciprocal Mixing Dynamic Range (RMDR)		
Spacing kHz		
2.5		Leakage
5		Blocks
10		101 dB
20		108 dB
50		116 dB
Phase noise (normalized) at 10 kHz spacing:		128 dBc/Hz
Phase noise (normalized) at 20 kHz spacing:		135 dBc/Hz
Phase noise (normalized) at 50 kHz spacing:		143 dBc/Hz
Noise floor, SSB bandwidth 144.2 MHz		-136 dBm
Sensitivity SSB at 144.2 MHz (10 dB S+N/N)		0.11 uV
Noise floor, 600 Hz, 144.2 MHz		-141 dBm
Signal for S9		8 uV
Signal for S9		-89 dBm
AGC threshold at 3 dB		1.3 uV

Notes: As with HF rigs of this vintage, performance is good with interfering signal far outside the first IF filter. Once interfering signals are inside the first IF filter, performance degrades significantly.