

# Test Report: AX30

Additional tests were carried out on a sample AX30 to Code of Federal Regulations Book 47 part 2 paragraph 989(c)(1) and 995(a)(2) and (b)

The results are shown below.

## Paragraph 2.989 Occupied Bandwidth.

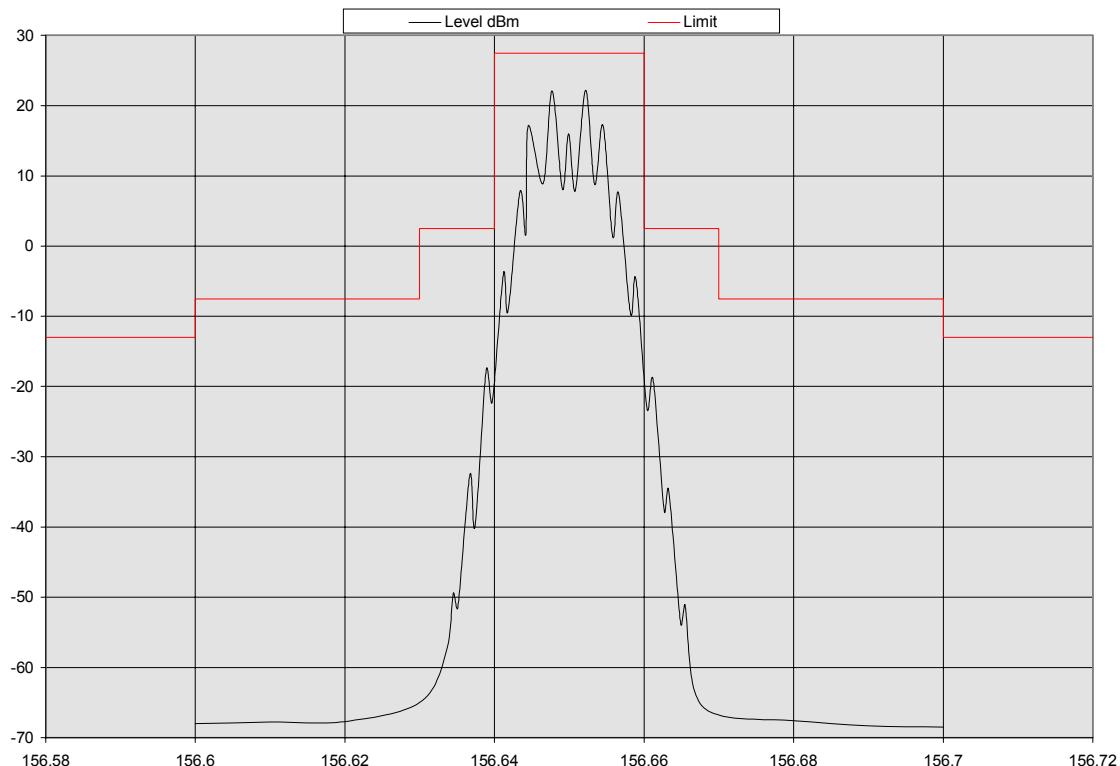
### Method:

The sample radio was connected to an AF source and modulation meter. The AF frequency was set to 2500Hz and the modulation level set to 50% of the maximum level (2.5kHz). The level was increased by 16dB and the AF frequency was varied to search for the maximum deviation. The Spectrum was then displayed on a spectrum analyser and the results plotted.

### Test Equipment:

AF source	Rohde & Schwarz CMT	18/8/98
Modulation Meter	Rohde & Schwarz CMT	18/8/98
Spectrum Analyser	Rohde & Schwarz FSAS	6/10/98

### Results:



The Occupied Bandwidth meets the requirements of Part 80.211(f).

## Paragraph 2.995 Frequency Stability

### Method:

The sample radio was placed in an environmental chamber and left over night at -20°C to stabilise the temperature.

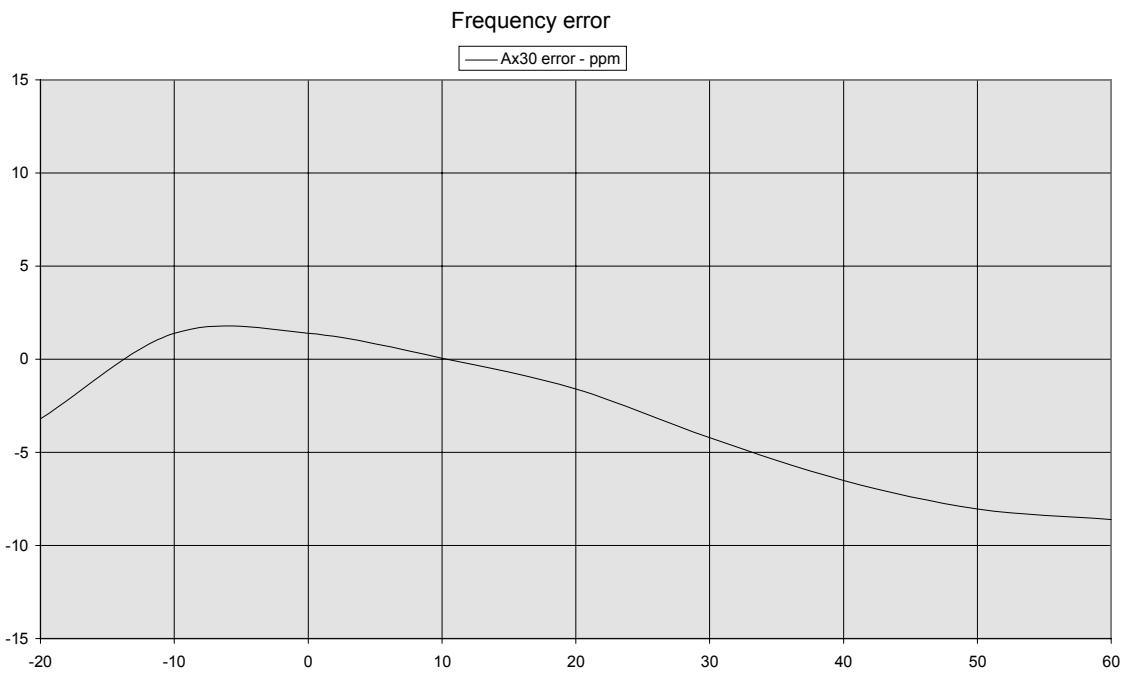
The frequency was measured at 10°C intervals, allowing 10 minutes to change temperature and 30 minutes for the unit under test to stabilise.

### Test Equipment

Voltage	Iso Tech IDM68	
Temperature	Fluke 52 Digital Thermometer	28/7/98
Frequency	Rohde & Schwarz CMT	18/8/98

### Test Results:

Temp C	Frequency MHz	Offset Hz	ppm
-20	156.799500	-500	-3.19
-10	156.800220	220	1.40
0	156.800220	220	1.40
10	156.800010	10	0.06
20	156.799750	-250	-1.59
30	156.799340	-660	-4.21
40	156.798980	-1020	-6.51
50	156.798740	-1260	-8.04
60	156.798650	-1350	-8.61



The Transmitter frequency tolerance meets the requirements of Part 80.209(a)