

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.

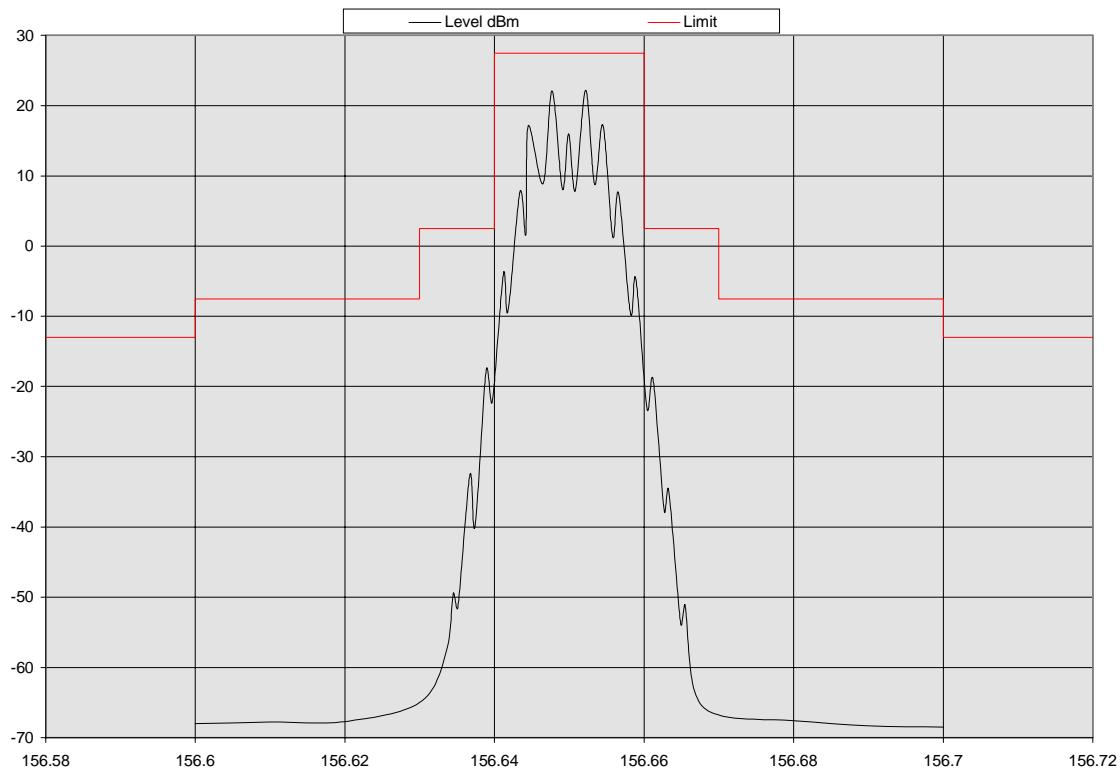
Method:

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.

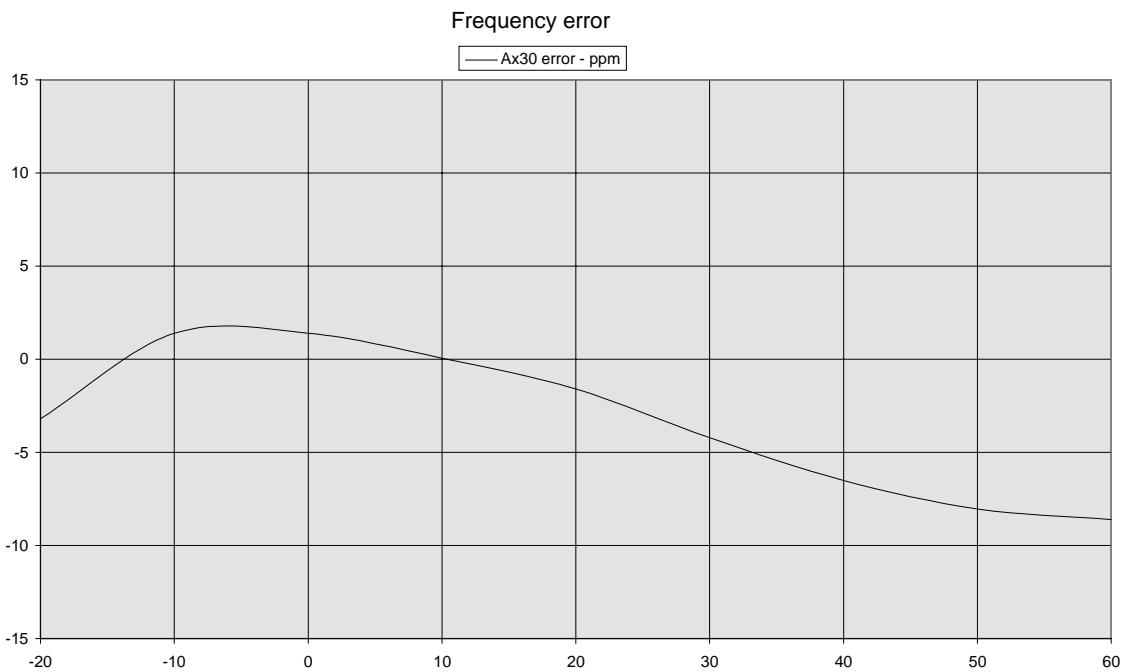
The frequency was measured at 10°C intervals, allowing 10 minutes to change temperature and 30 minutes for the unit under test to stabilise.

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)

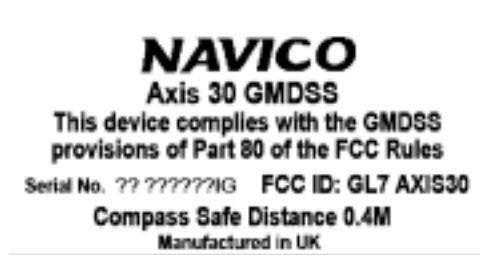
Statement of compliance with CFR47 part 80 Section 1101

The equipment known as AXIS 30 is fully compliant with the requirements of part 80 section 1101(b) and section 1101(c)(7).

Note: these requirements are also referred to in ETS300-225, for which the radio is already approved.

David C Sheekey
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9/11/98

Labelling on the radio for section 2.295 and 80.1103(e) is shown below:-



approx full size. (2.25" x 1.125")