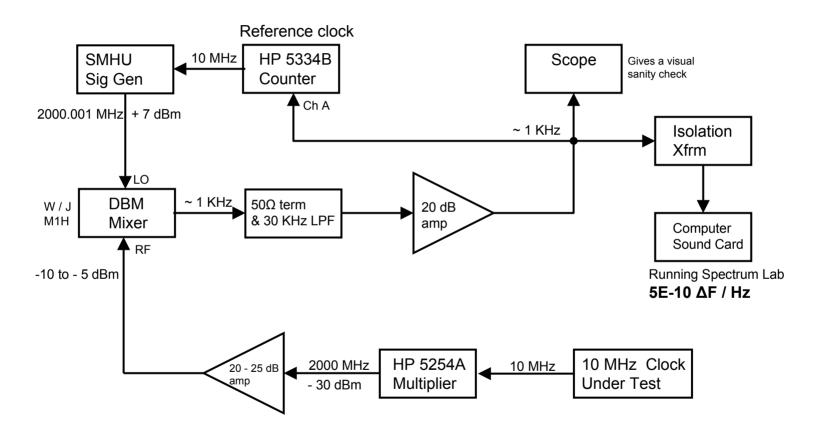
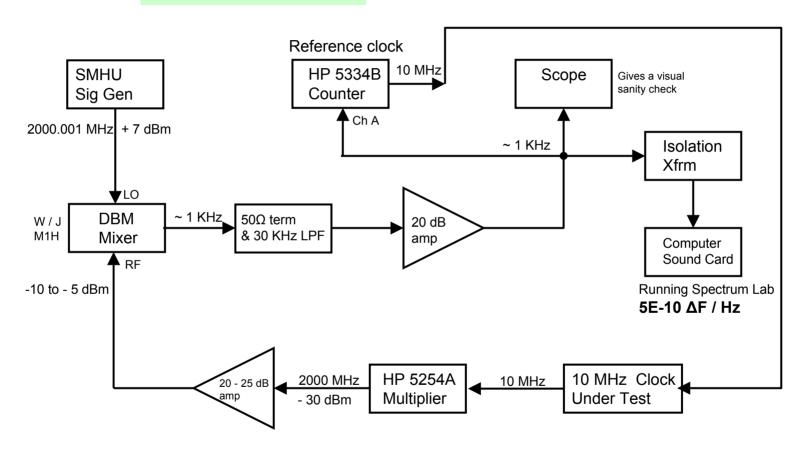
SET UP FOR FREQUENCY STABILITY TESTS

Setup GPS(HP 10544a) - HP 70310 - HP 8924C - MV89A VS HP 5334



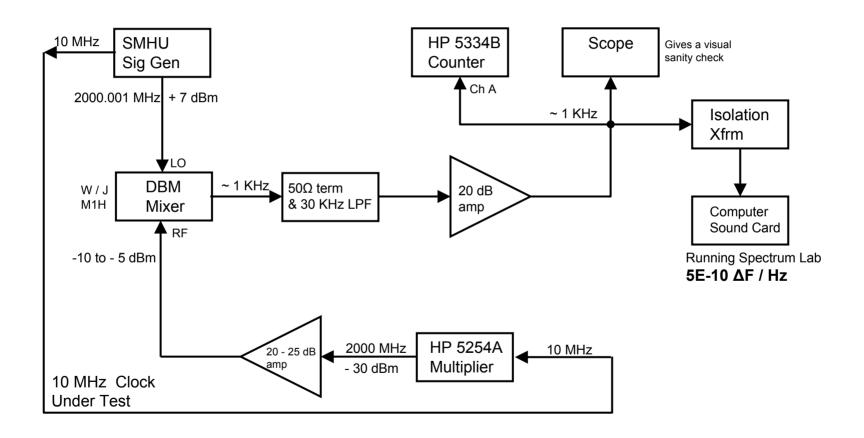
SET UP FOR FREQUENCY STABILITY TESTS

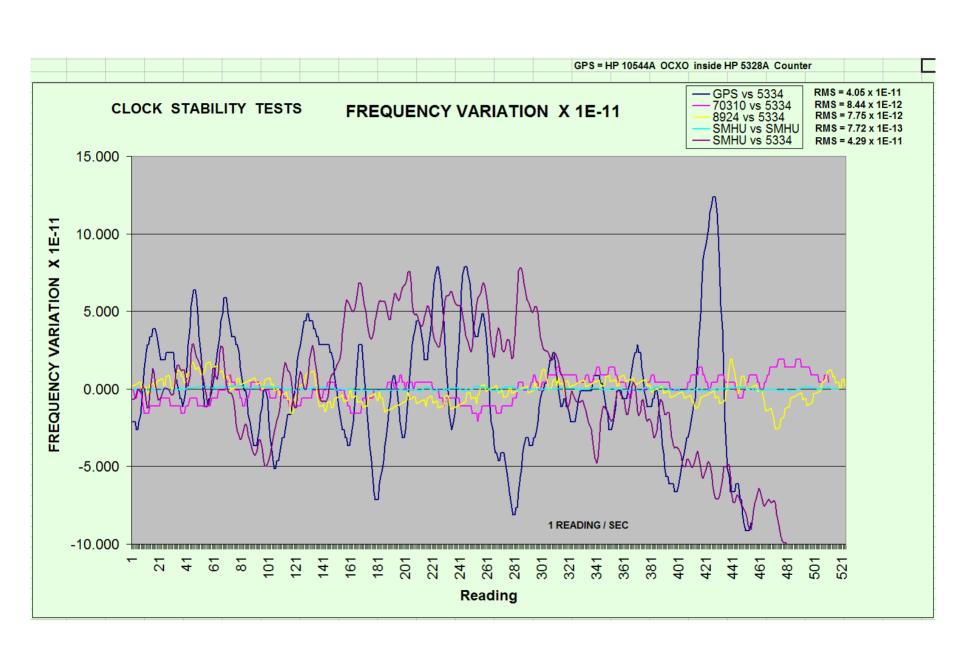
Setup SMHU VS HP 5334



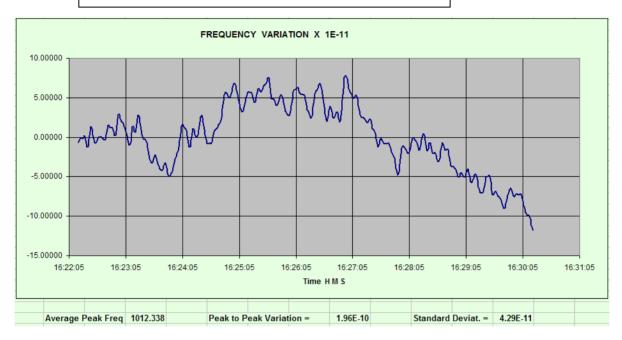
SET UP FOR FREQUENCY STABILITY TESTS

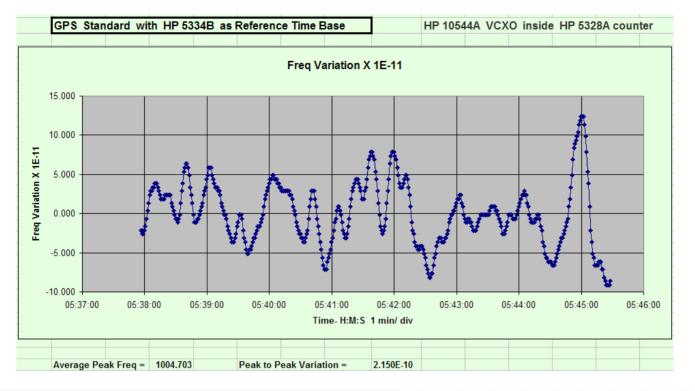
Setup SMHU VS SMHU

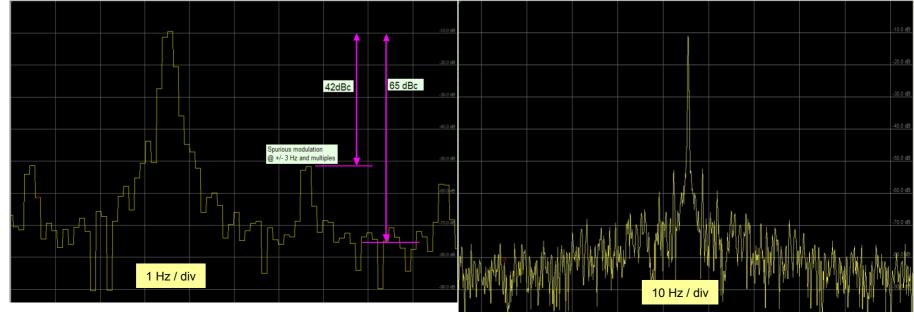


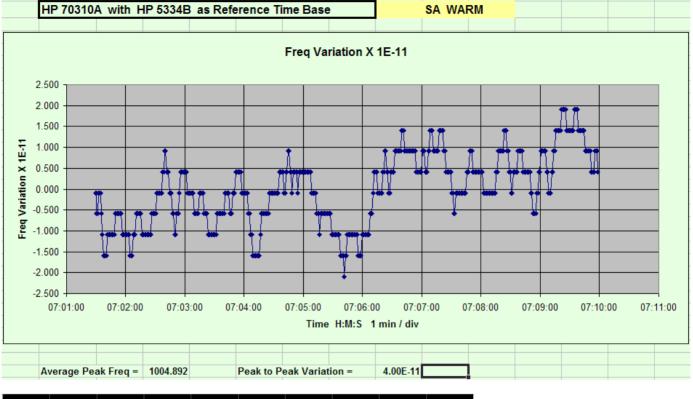


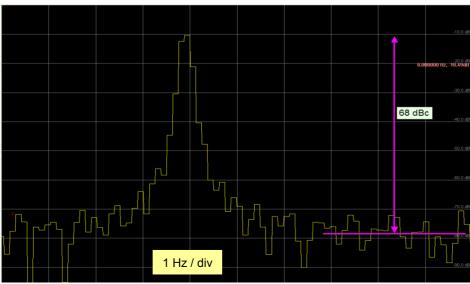
SMHU with HP 5334B as Reference Time Base



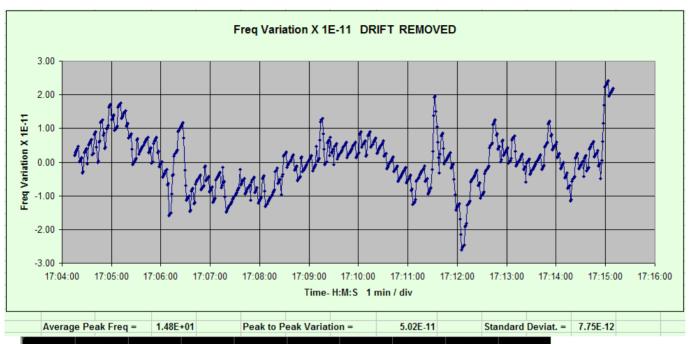


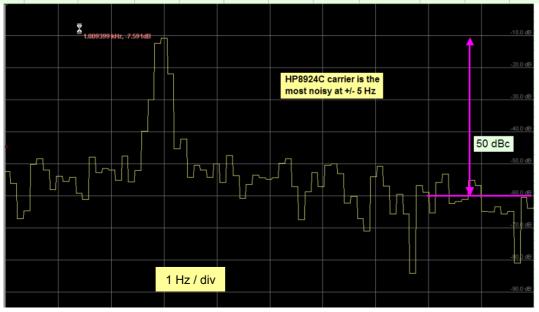






HP8924C with HP 5334B as Reference Time Base





SET UP FOR SPECTRUM LAB

- Set frequency MIN / MAX around 1000 Hz as req'd with a 10 Hz span
- In OPTIONS select *FFT* and set size = 8192, decimate = 8, Hann filter.

This gives FFT bin size of 122 mHz and 183 mHz noise bandwidth.

Also set Complex Internal Freq Shift mode.

Select Memory and set *Max FFT Bins in File* = 8192

- In OPTIONS select Audio I/O and set to 8 KHz.
- In FILES, select Text File Export. Select: Export of Calculated Data

In File Contents set the **Peak** f(....) with the proper MIN/MAX freq.

In File *Name and Activation*, enter file name, check *active* when ready to record.

Uncheck: Use Write Intervals: 1.0 sec.

The write interval will be set in **OPTION**S, **Spectrum1**, **Waterfall Scroll Interval** = 300 mS by default.

- First try displaying the spectrum without recording. In START/STOP, set **START Sound Thread**.
- When ready to record, set **STOP Sound Thread** and activate the file, as above. Then start recording by setting START/STOP to **START Sound Thread**.
- The recorded file will appear in the Spectrum Lab directory.

Reference: SpecLabInfo.pdf on my web site