

W8KSE and N8UR Results

MVUS Frequency Measuring Test – October 2007

W8KSE SITE

	SYNTH SETTING		RESULT	FREQUENCY OFFSET (Hz) (N8UR – W8KSE)	FRACTIONAL FREQ. OFFSET (N8UR – W8KSE)
AFTERNOON		REF OFFSET: 4.189E-9	(from Austron Offset)		
80M	3554412.0		3554412.014889	-0.000218	-6.145E-11
	3554412.0		3554412.014889	0.000002	4.478E-13
	3554406.0		3554406.014889	-0.000070	-1.957E-11
40M	7056588.0		7056588.029559	-0.000376	-5.329E-11
	7056588.0		7056588.029559	0.000037	5.235E-12
	7056577.0		7056577.029559	-0.000003	-3.859E-13
30M	10114763.7		10114763.742369	0.000066	6.552E-12
	10114763.7		10114763.742369	0.000076	7.541E-12
	10114767.5		10114767.542369	0.000075	7.429E-12
EVENING		REF OFFSET: 4.178E-9	(from Austron Offset)		
80M	3561316.0		3561316.014881	-0.000030	-8.512E-12
	3561337.0		3561337.014881	-0.000065	-1.825E-11
	3561294.0		3561294.014881	-0.000001	-2.465E-13
40M	7060586.0		7060586.029502	0.000102	1.450E-11
	7060607.0		7060607.029502	0.000188	2.659E-11
	7060569.0		7060569.029502	0.000031	4.352E-12
30M	10111367.5		10111367.542250	0.000056	5.519E-12
	10111388.6		10111388.642250	0.000036	3.571E-12
	10111348.6		10111348.642249	0.000040	3.912E-12

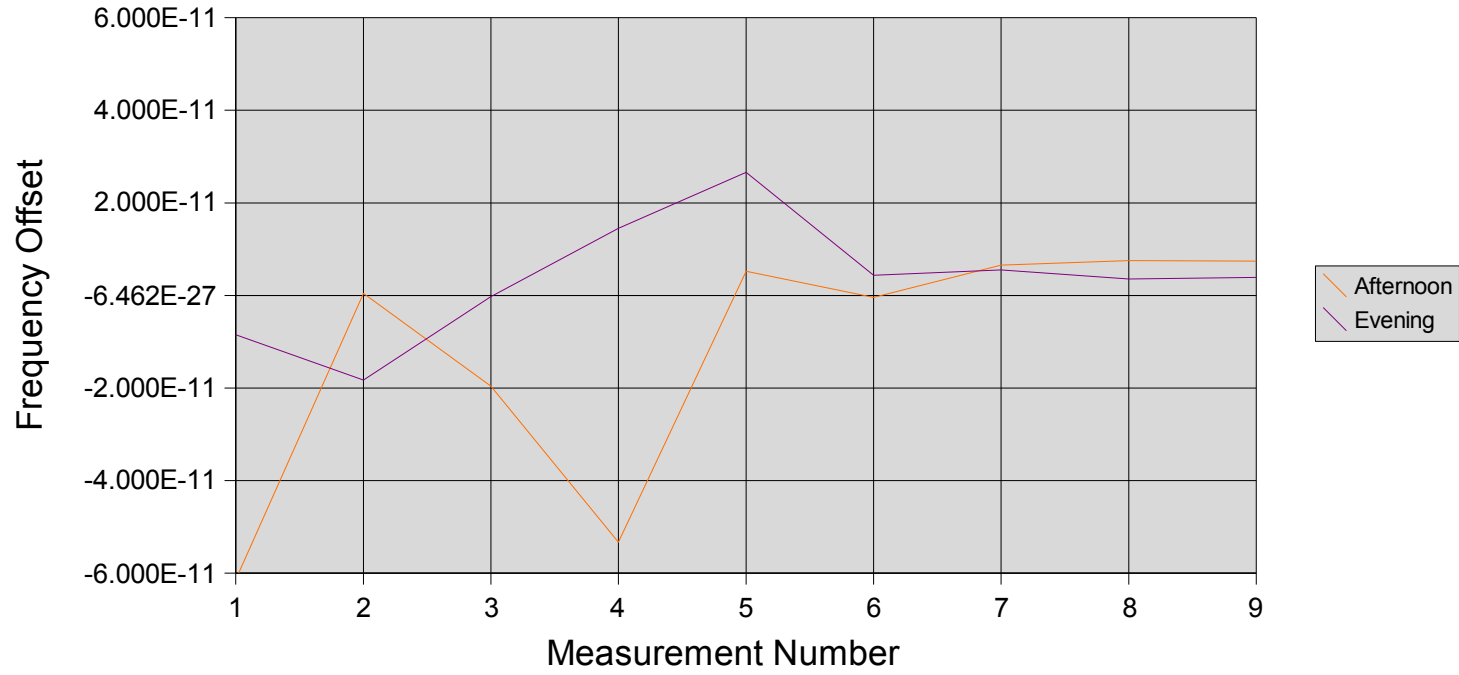
W8KSE and N8UR Results

N8UR SITE

	TUNED 3586C FREQUENCY	CORR'D 3586C FREQUENCY	DELTA FREQUENCY	CORR'D DELTA FREQUENCY	RESULT		
AFTERNOON	REF ERROR:	-4.75E-12	(via Stable32)		SAMPLE RATE ERROR:	4.97E-05	(from Sample Rate Correction)
80M	3554400.0	3554399.99998	12.0140900	12.01469	3554412.014670		
	3554400.0	3554399.99998	12.0143100	12.01491	3554412.014890		
	3554390.0	3554389.99998	16.0140400	16.01484	3554406.014819		
40M	7056570.0	7056569.99997	18.0283200	18.02922	7056588.029183		
	7056580.0	7056579.99997	8.0292300	8.02963	7056588.029596		
	7056570.0	7056569.99997	7.0292400	7.02959	7056577.029556		
30M	10114750.0	10114749.99995	13.7418000	13.74248	10114763.742435		
	10114750.0	10114749.99995	13.7418100	13.74249	10114763.742445		
	10114750.0	10114749.99995	17.5416200	17.54249	10114767.542444		
EVENING	REF ERROR:	-4.75E-12	(via Stable32)		SAMPLE RATE ERROR:	4.98E-05	(from Sample Rate Correction)
80M	3561300.0	3561299.99998	16.0140700	16.01487	3561316.014850		
	3561300.0	3561299.99998	37.0129900	37.01483	3561337.014816		
	3561275.0	3561274.99998	19.0139500	19.01490	3561294.014880		
40M	7060570.0	7060569.99997	16.0288400	16.02964	7060586.029604		
	7060570.0	7060569.99997	37.0278800	37.02972	7060607.029690		
	7060545.0	7060544.99997	24.0283700	24.02957	7060569.029533		
30M	10111350.0	10111349.99995	17.5414800	17.54235	10111367.542305		
	10111350.0	10111349.99995	38.6404100	38.64233	10111388.642286		
	10111325.0	10111324.99995	23.6411600	23.64234	10111348.642289		

Graph

F(N8UR) - F(W8KSE)



Sample Rate Correction

N8UR SOUND CARD SAMPLE RATE CORRECTION

	MEASURED PILOT	ACTUAL PILOT	SAMPLE ERROR
AFTERNOON	1849.908040	1850.0	4.97E-05
EVENING	1849.907900	1850.0	4.98E-05

Austron Offset

Afternoon Frequency Readings

Evening Frequency Readings

AVERAGE FREQUENCY:
FRACTIONAL FREQUENCY ERROR:

5.000000020944020
4.189E-9

5.000000020892050
4.178E-9

Average of TSC-5120A 1 second
average readings taken at 10
second intervals during each
transmission period

Austron Offset

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