

August 9, 2012

I certify that the following translators have been checked for spurious emissions and modulation and that they comply with the requirements of 47 C.F.R. Sections 73.317(b) through 73.317(d).

K220II and K212DQ are combined through a Telewave Combiner M105-2T-SP #8236 To a Telewave ANT90D antenna.

Measurements were taken using a calibrated RF spectrum analyzer connected to the transmission line using an in-line watt meter -40dB sample port.

Signed:

Jeremy Estabrooks
Field Engineer
Calvary Chapel of Twin Falls

Intermod Calculation Sheet

			Fundamental	First Harmonic	Second Harmonic
Frequency A:	90.3	-4	90.3	180.6	270.9
Frequency B:	91.9	-4	91.9	183.8	275.7

Note: Frequency B should be the greater of the two.

Second Order Products	1.6 N				1.2 N
	182.2 N				87.9 N
	180.6 N				91.5 N
	183.8 N				178.2 N
Third Order Products	93.5 n				179.4 N
	88.7 n				180.6 N
	274.1 N				267.3 N
	272.5 N				268.5 N
	270.9 N				269.7 N
	275.7 N				270.9 N
	278.9		-85		
	279.1		-80		

88-108 filter used to measure frequencies outside FM band.