

IM measurements
94.9MHz WWRM (BXPB-20110817ACQ)
and
101.5Mhz WPOI (BXPB-20110817 ACM)
American Tower Site
Riverview, Florida
August 26, 2011

The attached IM measurements were made with 94.9 MHz, WWRM and 101.5, WPOI, operating at full power into an ERI 973 five station Manifold combiner system feeding an ERI SHPXA-8BC-HW-SP Axiom antenna.

A directional coupler is mounted on the output of the combiner for sampling. This coupler is set up to measure any and all products and carriers in the forward direction. To prevent an intermod product from being generated in the measuring system, Eagle TNF210bfbf Notch Filters were used to notch the primary signals at the input to the Agilent Spectrum Analyzer.. All measurements were made with the Spectrum Analyzer in the Max Hold mode.

All possible lintermod products between 10MHz and 470Mhz were measured. A wideband sweep was also made between 10MHz and 1GHz, No Spurious Emissions.were detected.

This system complies with section 73.317 (a) through (d).

These measurements were made in support of 302FM's being filed for WWRM (BXPB-20110817ACQ) and WPOI (BXPB-20110817ACM). Although this system was designed for five stations, WWRM and WPOI are the only stations connected to this system at this time.. Additional IM measurements will be submitted when additional stations begin operating from the system.



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Chief Engineer

Mult	X	Freq		Mult	X	Freq	=	Product	Measured product
2	X	101.5	-	2	X	94.9	=	13.2	-86.61
3	X	101.5	-	3	X	94.9	=	19.8	-86.62
3	X	94.9	-	2	X	101.5	=	81.7	-86.75
2	X	94.9	-	1	X	101.5	=	88.3	-86.51
2	X	101.5	-	1	X	94.9	=	108.1	-87.05
3	X	101.5	-	2	X	94.9	=	114.7	-86.51
3	X	94.9	-	1	X	101.5	=	183.2	-86.07
2	X	94.9					=	189.8	-86.09
1	X	94.9	+	1	X	101.5	=	196.4	-85.85
1	X	101.5	+	1	X	94.9	=	196.4	-85.85
2	X	101.5					=	203.0	-86.07
3	X	101.5	-	1	X	94.9	=	209.6	-85.78
3	X	94.9					=	284.7	-86.71
1	X	101.5	+	2	X	94.9	=	291.3	-86.06
1	X	94.9	+	2	X	101.5	=	297.9	-85.99
3	X	101.5					=	304.5	-85.96
1	X	101.5	+	3	X	94.9	=	386.2	-85.5
3	X	94.9	+	1	X	101.5	=	386.2	-85.5
2	X	94.9	+	2	X	101.5	=	392.8	-84.71
2	X	101.5	+	2	X	94.9	=	392.8	-84.71
1	X	94.9	+	3	X	101.5	=	399.4	-85.28
4	X	101.5					=	406.0	-86.04
5	X	101.5	-	1	X	94.9	=	412.6	-84.76