

# Bext Model FTCSDC2-#08 Combiner Ser/FT-16-112

Broadcast Works Inc.  
(903)-509-2470

10/06/03

Located at: Bryan, Texas

	<u>Subject Station:</u>		<u>TPO</u>	<u>Transmitter</u>	<u>Notch Attenuation</u>	<u>Unmodulated Carrier Level (dB)</u>	
	<u>Class</u>	<u>Call</u>	<u>Freq</u>	<u>(KW)</u>	<u>Model and serial</u>	<u>(dB)</u>	<u>"UCL" (dB)</u>
F1		K229DK	93.7	0.9	Nautel VS 1	-60.3	-10.0
F2		K249ET	97.7	0.876	BW TX-1000 V2	-80.65	-11
F3		K274CM	102.7	0.706	Nautel VS 1	-80.46	-12

<u>Frequency Combination (Mhz)</u>	<u>Calculated Spur (Mhz)</u>	<u>Measured Spur Level (dB)</u>	<u>Main Carrier Ref (Mhz)</u>	<u>dB down (UCL - Measured Spur)</u>
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2F1-F2	89.7	-103.0	F1	93.0
2F1-F3	84.7	-100.0	F1	90.0
2F2-F1	101.7	-98.0	F1	88.0
2F2-F3	92.7	-100.0	F1	90.0
2F3-F1	111.7	-105.0	F1	95.0
2F3-F2	107.7	-107.0	F1	97.0

2F1-F2	89.7	-103.0	F2	92.0
2F1-F3	84.7	-100.0	F2	89.0
2F2-F1	101.7	-98.0	F2	87.0
2F2-F3	92.7	-100.0	F2	89.0
2F3-F1	111.7	-105.0	F2	94.0
2F3-F2	107.7	-107.0	F2	96.0

2F1-F2	89.7	-103.0	F3	91.0
2F1-F3	84.7	-100.0	F3	88.0
2F2-F1	101.7	-98.0	F3	86.0
2F2-F3	92.7	-100.0	F3	88.0
2F3-F1	111.7	-105.0	F3	93.0
2F3-F2	107.7	-107.0	F3	95.0

The signals were sampled at the output of the antenna combiner system at its nominal RF output. The measurements were made using an Agilent N9340B Spectrum Analyzer, Ser CN03480818, calibrated October 2008. Each fundamental frequency was attenuated using Microwave Filter Company model 6367 cavity notch filters tuned to each fundamental. Measured intermodulation products of the shared antenna system were at least 80 dB below the unmodulated carriers of the two stations. Based on these measurements it is believed the stations are in compliance with 73.317 of the Commission's rules.

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**20-May-19**  
**H.I. Hardisty**