



Spurious Measurement Test Report
Combined Facility
Cedar Hill, Texas



Background

This test was performed in order to verify compliance of 47 C.F.R. Sections 73.317 (b) through 73.317 (d) between stations KERA, KJKK, KVIL, KLLI, KLUV, KLNO, KBFB and KOAI. All eight station transmitters are operated into a Shively DS2540 Balanced Combiner System feeding a Dielectric master FM panel antenna system, model TAC-8FMB-3/24. The site is located at 2135 Tar Road, Cedar Hill, Texas. The antenna structure registration number is 1059733.

Test Setup and Procedure

The test was performed using a Anritsu MS2721A spectrum analyzer. The combiner system output contains an RF directional coupler prior to feeding the master panel antenna. The spectrum analyzer was connected to the forward port of the directional coupler in order to view the entire combined fundamental spectrum as well as any spurious products. Adequate attenuation was placed in front of the spectrum analyzer in order to avoid overload conditions inside the analyzer causing inaccurate measurements. The external attenuation was factored into the measurement readings.

The test was performed by taking actual signal level readings of each of the eight stations main carriers (in dBm) and then comparing these signal levels to all of the detectable spurious signal levels (in dBm). The spectrum was swept up to 2 GHz.

Conclusion

The current operation of all eight stations into this system meets or exceeds the requirements of 47 C.F.R. Sections 73.317 (b) through 73.317 (d).

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