

## Spurious Emissions Measurement

Spectrum measurements to detect unwanted intermodulation products and other spurious emissions were conducted on Americom's combined FM antenna system located on Red Peak in Reno, Nevada.

These measurements were made using an Anritsu MS2721A Spectrum Analyzer on March 20, 2015. All four translators; K223AL, K241AK, K285EQ, and K245BV were operating at full power via the combined antenna system.

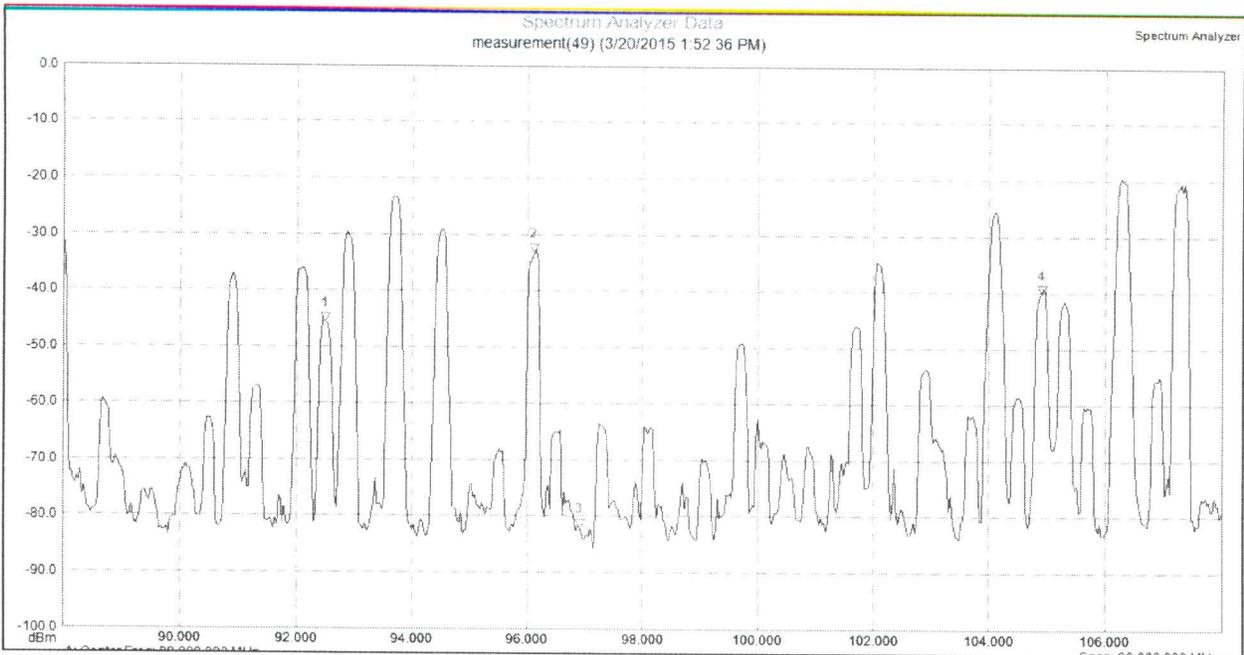
Sweeps of the entire FM band were performed both with and without K245BV operating. As can be seen on the following spectrum analyzer plots, no spurious emissions were observed from the addition of K245BV to the antenna system.

These measurements were taken inside the equipment room at the base of the tower.

It is thus believed that the addition of K245BV to the combined antenna system is compliant with 47CFR 73.317(b-d) in that there are no undesired spurious or mix products generated.

A handwritten signature in black ink, appearing to read "Dennis Christensen", with a long horizontal line extending to the right.

Dennis Christensen  
3/20/2015



Measurement Parameters			
Trace Mode	Max Hold	Start Frequency	88,000,000 MHz
Trace Mode	Max Hold	Stop Frequency	108,000,000 MHz
Preamp	OFF	Frequency Span	20,000,000 MHz
Min Sweep Time	4.3E-05 S	Reference Level	-0.001 dBm
Reference Level Offset	-0.002 dB	Scale	10.0 dB/div
Input Attenuation	0.0 dB	Serial Number	647154
RBW	30.0 kHz	Base Ver.	V1.78
VBW	10.0 kHz	App Ver.	V1.79
Detection	Peak	Date	3/20/2015 1:52:36 PM
Center Frequency	98,000,000 MHz	Device Name	

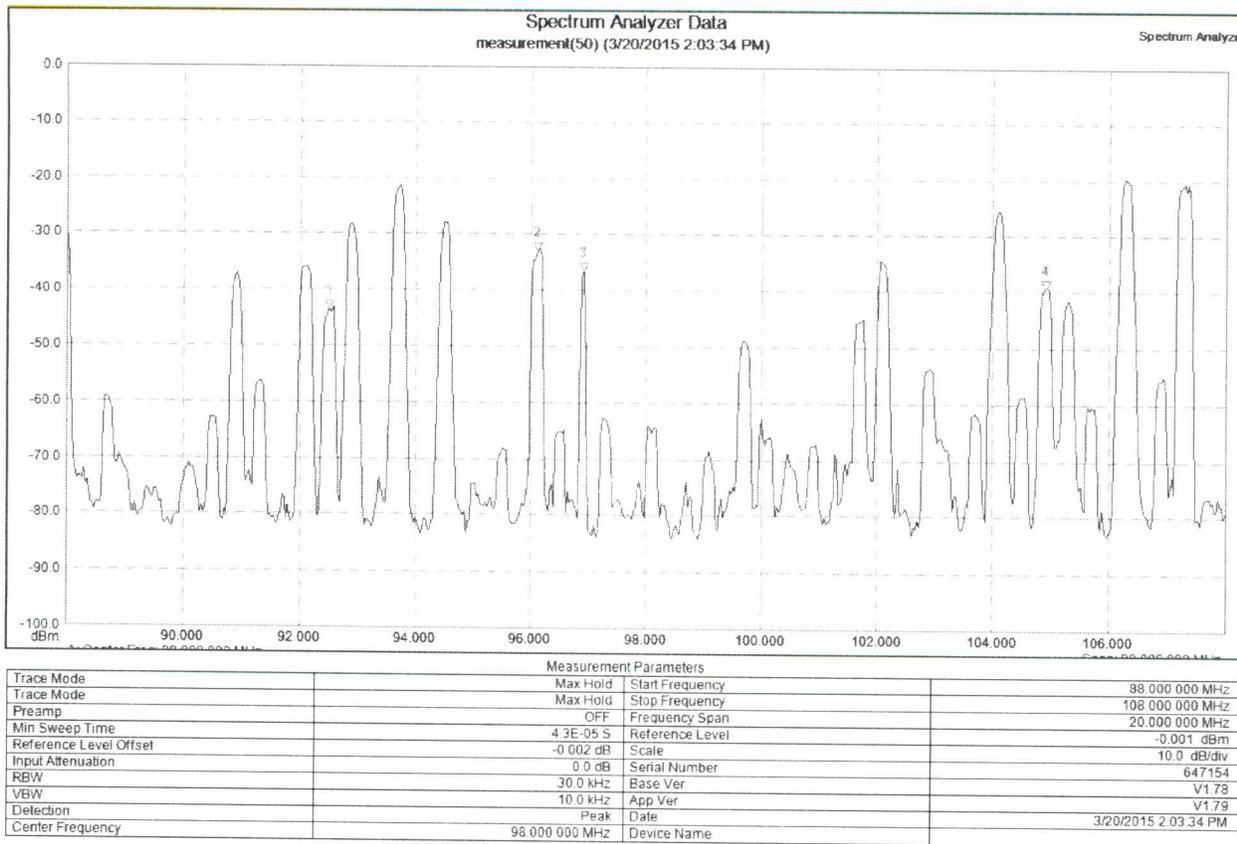
Spectrum Display without K245BV operating

Marker (1) is K223AL

Marker (2) is K241AK

Marker (3) is K245BV

Marker (4) is K285EQ



Spectrum Display with K245BV operating.

Marker (1) is K223AL

Marker (2) is K241AK

Marker (3) is K245BV

Marker (4) is K285EQ