



June 25, 2018

Technical Statement
K228EM Colorado Springs, CO
Cheyenne Mountain Public Broadcast House, INC
June, 2018

This Technical Statement is made in support of a FCC Form 350 filed for K228EM Colorado Springs, CO, facility ID 88551.

The construction permit, BLFT-20180521ABF, has a special operating condition that require compliance with the spurious emission requirement under 47 C.F.R. Sections 73.317(b) though 73.317(d).

Measurements were conducted at the new translator site using a Signal Hound SA44A Spectrum Analyzer which was inserted into the RF sample output on the BW TX600 V2 FM Transmitter. A BEXT FFC2 2-Cavity Band Pass filter is also now inline on 93.5 FM.

With modulation of the K228EM translator, all emission where found to be in compliance.

Occupied bandwidth between 120 kHz all the way to 600 kHz was found to be greater than 60 dB, or well below the maximum requirement of 35dB.

93.5 FM (K228EM) and 96.5 FM were both On-Air while this testing was completed. The two Stations are not combined and are on separate Antenna's at this site.

Any spurious emissions and intermod products were looked for and not found.

Measurements performed by:

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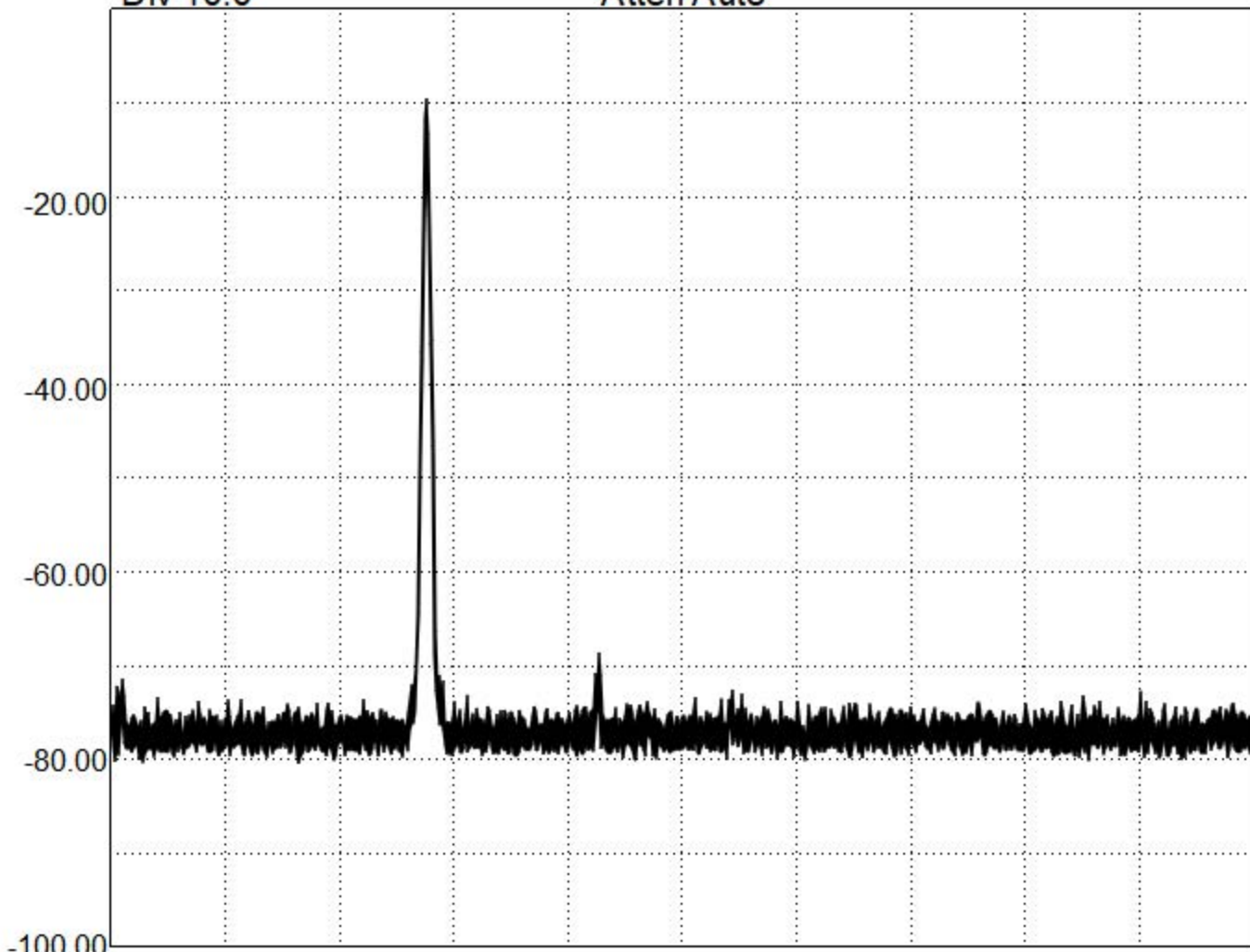
Submitted by:

George Preston, General Manager, Cheyenne Mountain Public House Inc

Ref 0.000 dBm
Div 10.0

RBW 10.000000 kHz
Atten Auto

VBW 10.000000 kHz



Start 88.000000 MHz

Center 98.000000 MHz

Stop 108.000000 MHz

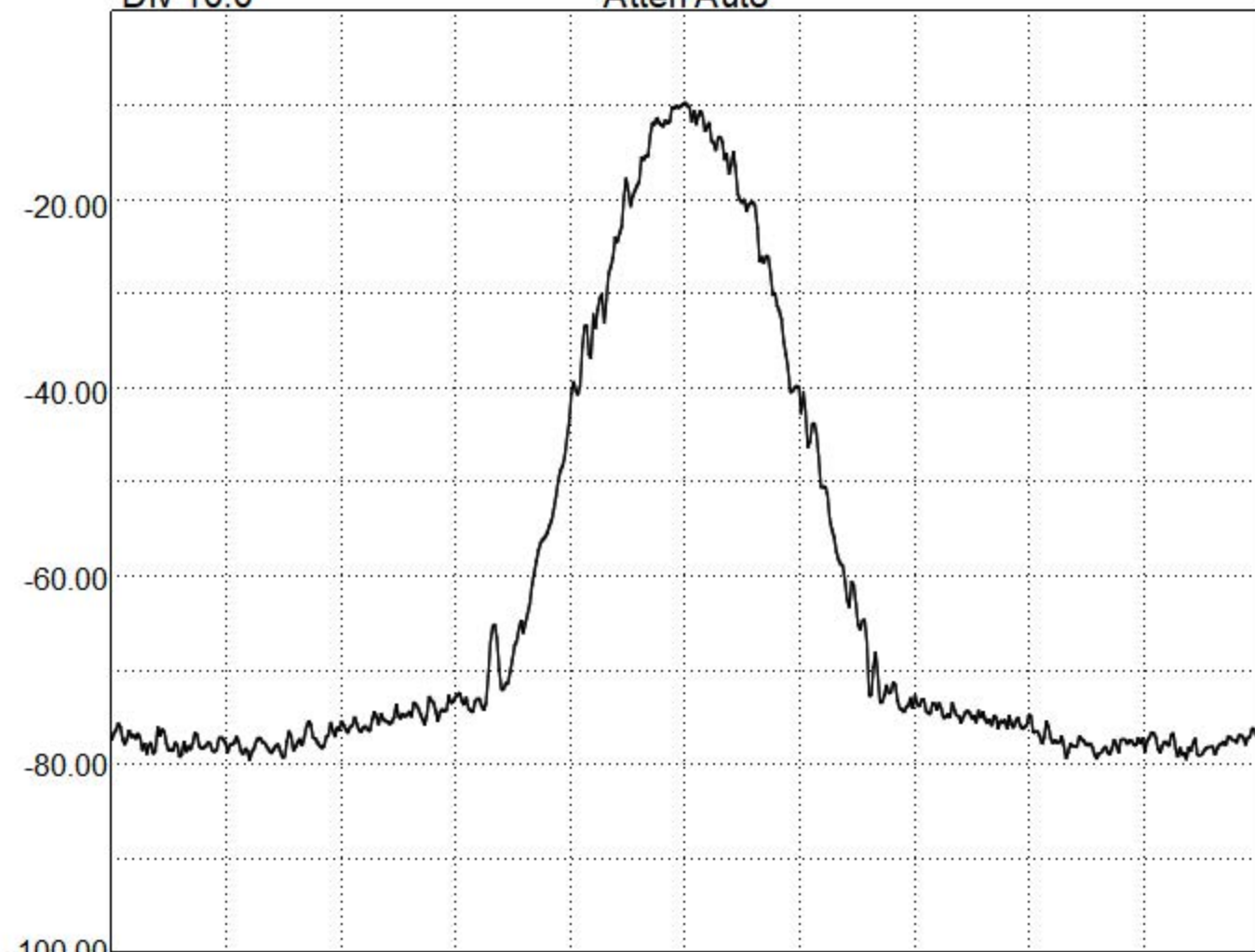
Span 20.000000 MHz

10500 pts in 31 ms

Ref 0.000 dBm
Div 10.0

RBW 6.500000 kHz
Atten Auto

VBW 6.500000 kHz



Start 93.000000 MHz

Center 93.500000 MHz

Stop 94.000000 MHz

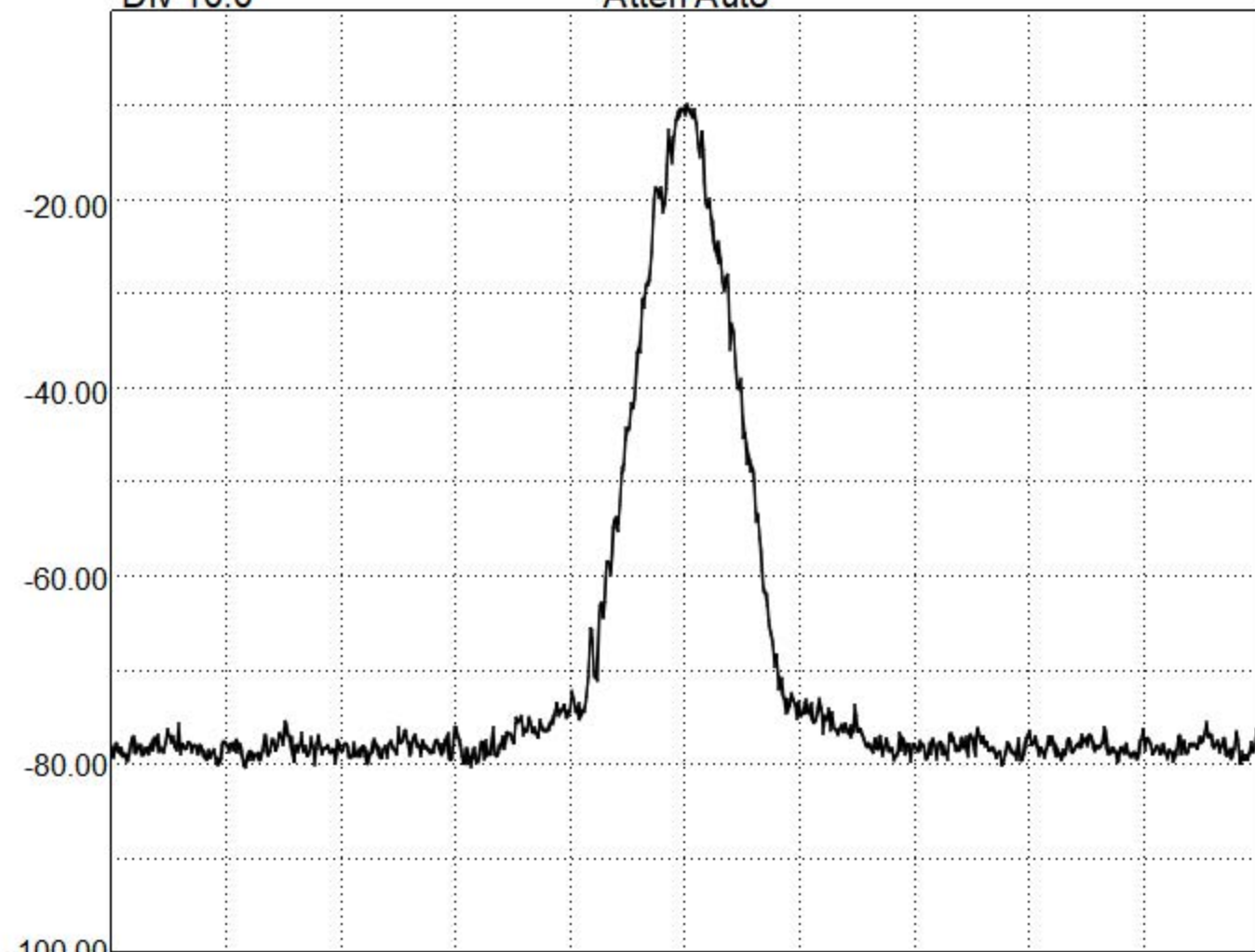
Span 1.000000 MHz

525 pts in 234 ms

Ref 0.000 dBm
Div 10.0

RBW 6.500000 kHz
Atten Auto

VBW 6.500000 kHz



Start 92.500000 MHz

Center 93.500000 MHz

Stop 94.500000 MHz

Span 2.000000 MHz

1050 pts in 235 ms