

**TECHNICAL STATEMENT  
IN SUPPORT OF A REQUEST FOR  
PROGRAM TEST AUTHORIZATION  
KTIV 1,000 KW-ND 609.5 M HAAT CH. 14  
SIOUX CITY, IOWA**

**INTRODUCTION**

KTIV License, LLC, the licensee of digital television station KTIV, Facility ID No. 66170, requests prior FCC authority to begin program tests on Channel 14 (470 - 476 MHz) in accordance with the terms of its post-reassignment construction permit, File # 0000034419. This exhibit provides certain technical documentation to show that adequate measures are being taken to avoid causing objectionable interference to existing land mobile radio facilities in the 460 MHz to 470 MHz band, which is immediately adjacent to KTIV's channel.

**TECHNICAL DOCUMENTATION**

In addition to the advance notification process that is being addressed elsewhere in this application for program test authorization (PTA), the applicant has installed a DTV UHF constant impedance filter (CIF), 12 poles, with highly suppressive characteristics in the adjacent frequency band below Channel 14. The response of the filter is tailored to the output of the transmitter and will attenuate "out-of-band" emissions in excess of the FCC requirements. The attached test data provided by the manufacturer shows that the "out-of-band" filter response is sufficiently suppressive. Furthermore, the applicant intends to conduct a full transmission system proof of performance and, after completion of the final report, a copy of the results will be furnished upon request.

**SUMMARY**

The applicant has demonstrated that appropriate technical measures have been taken to protect existing land mobile radio facilities, which is in addition to an advance notification



process. Therefore, the request for PTA substantially complies with the special conditions listed on the station's construction permit.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Scott Turpie', written over a horizontal line.

Scott Turpie  
Technical Consultant  
Lohnes & Culver LLC  
P.O. Box 881  
Silver Spring, MD 20918-0881  
Ph. 301-776-4488

November 12, 2018

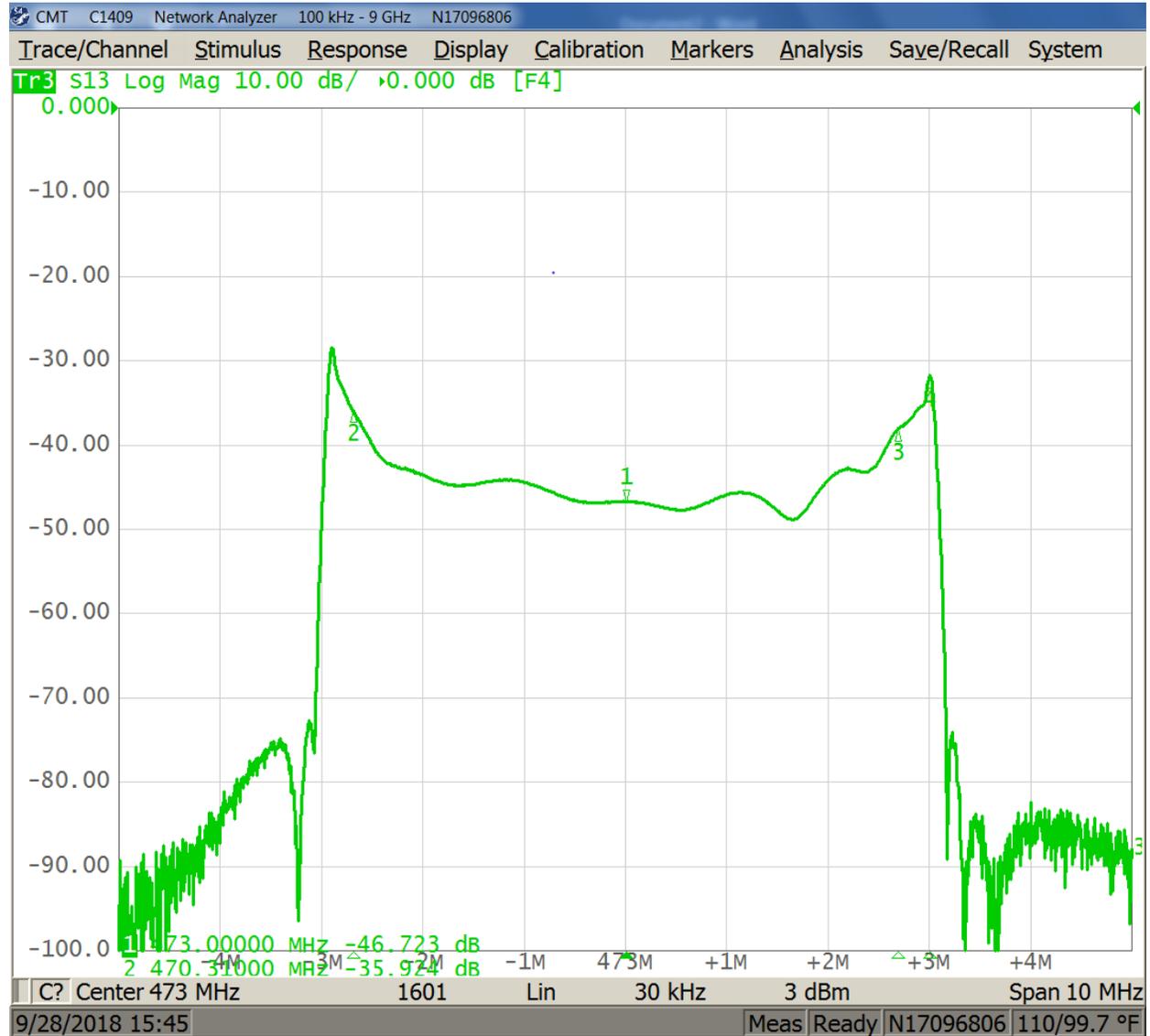


CH 14 CIF SO 1330002 LINE 1 PN 400002804

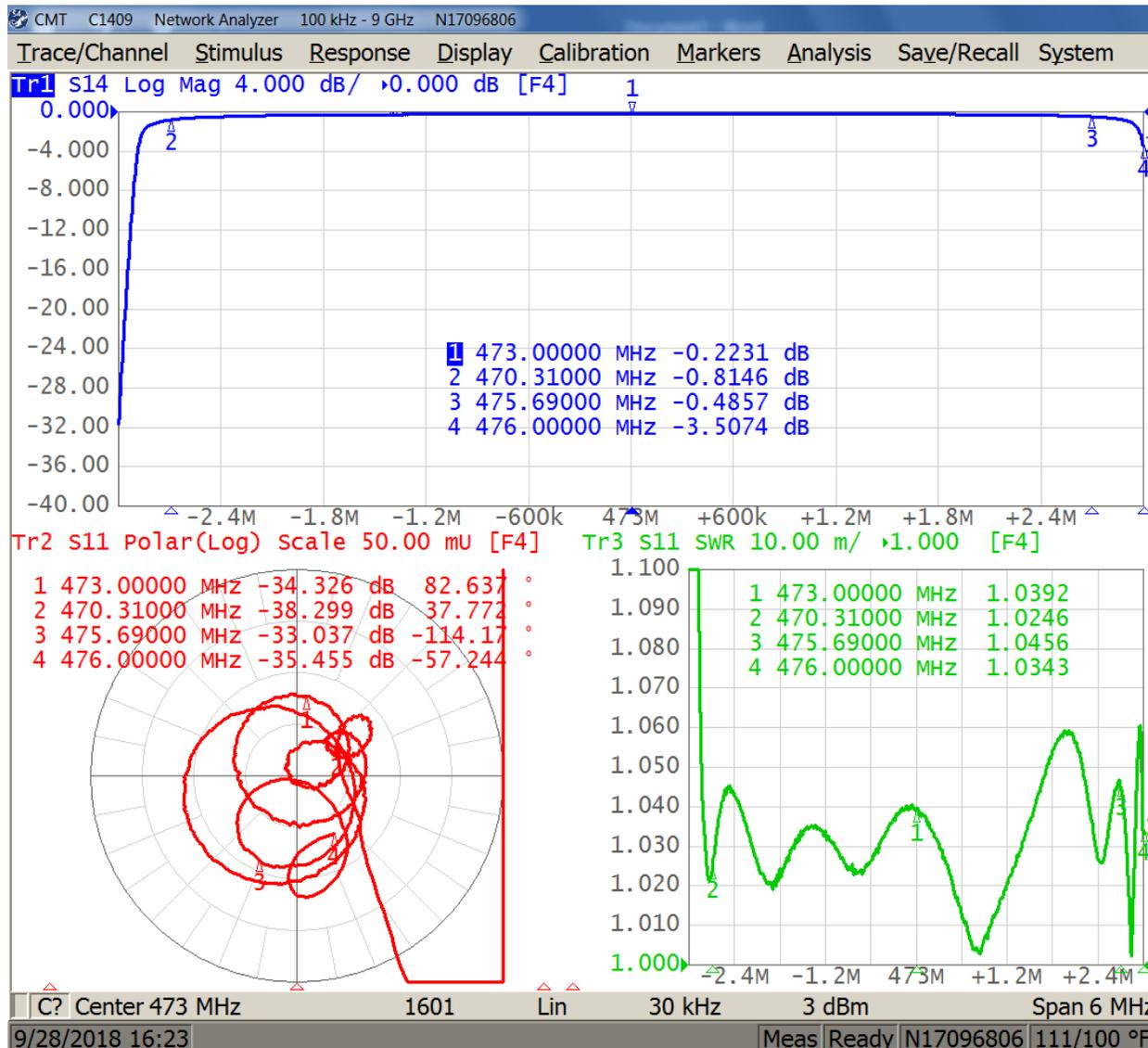
ISOLATION TO REJECT



# ISOLATION TO BALLAST



# INSERTION LOSS, RETURN LOSS AND VSWR



# FILTER RESPONSE

