



Aviation Spectrum Resources Inc. ♦ 180 Admiral Cochrane Drive ♦ Suite 300 ♦ Annapolis, MD 21401
Phone: 410-266-6030 ♦ Fax: 443-951-0349 ♦ <http://www.asri.aero>

April 26, 2021

Mr. Danny Hankins
Spectrum Manager – Sr
One Cessna Blvd
Independence, KS 67301

Dear Mr. Hankins;

Please accept this letter as concurrence from Aviation Spectrum Resources Inc. (ASRI) for Textron Aviation to perform aircraft certification testing for the following:

VHF Frequencies range (MHz): 131.2417-131.3083 MHz (See attachment)
Transmitter locations:

- Beech Factory Airport (BEC), Wichita, Sedgwick County, KS
Within 2 km of coordinates 37 41 41 / 097 13 00 W
- Dwight D. Eisenhower Regional Airport (ICT), within 2 km of coordinates 37-38-34 N Lat, 097-25-04 W Lon

Emissions: 5K00A3E / 5K60A3E / 6K00A3E

Power: 20 W mean

ASRI concurs with the use of the specified frequencies provided that no interference is received by ASRI licensed stations. If interference is reported to ASRI, operations must cease operations immediately.

If you should have any questions regarding this letter of concurrence, please contact me at telephone number 443-951-0344 or via e-mail at ccw@asri.aero.

Sincerely,

Christopher Wheatley
Aviation Spectrum Resources Inc.

GPS Interference Testing Frequencies and Parameters
ARINC / ASRI Coordination

Location 1: Dwight D. Eisenhower Regional Airport (ICT), within 2 km of coordinates 37-38-34 N Lat, 097-25-04 W Lon

Location 2: Beech Factory Airport (BEC), Wichita, Sedgwick County, KS, within 2 km of coordinates 37-41-41 N Lat, 097-13-00 W Lon

Frequencies	Emissions	Power
• 131.2417 MHz	5K00A3E / 5K60A3E	20 W mean
• 131.250 MHz	5K00A3E / 5K60A3E / 6K00A3E	20 W mean
• 131.2583 MHz	5K00A3E / 5K60A3E	20 W mean
• 131.2667 MHz	5K00A3E / 5K60A3E	20 W mean
• 131.275 MHz	5K00A3E / 5K60A3E / 6K00A3E	20 W mean
• 131.2833 MHz	5K00A3E / 5K60A3E	20 W mean
• 131.2917 MHz	5K00A3E / 5K60A3E	20 W mean
• 131.300 MHz	5K00A3E / 5K60A3E / 6K00A3E	20 W mean
• 131.3083 MHz	5K00A3E / 5K60A3E	20 W mean

The purpose of the transmissions is to certify that VHF comm. radio communications will not interfere with GPS navigation systems on board aircraft. The testing is required for certification of the aircraft. All of the transmitters used are FCC certified.

The test frequencies were chosen because their 12th or 13th harmonics fall within +/- 1 MHz of the GPS L1 frequency, M1575.42. The procedure requires that the GPS system acquire satellites. The VHF radio is tuned to a test frequency and transmits for up to 20 seconds while the GPS system is monitored to verify that no satellites are dropped, or other indication of interference is observed. This procedure is required for each of the test frequencies requested.