

Guangzhou SOUTH Surveying & Mapping Instrument Co., Ltd.

No.39, Sicheng Road, Tianhe District, Guangzhou, China

Date: April 29, 2019

Office of Engineering and Technology
Laboratory Division
Equipment Authorization Branch
Federal Communications Commission Laboratory
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Narrowband Requirement for **FCC ID: 2AJTU-G1STAR**

Dear Sir or Madam;

We, **South Surveying & Mapping Technology Co., Ltd.** declares that the Digital radio meets 47CFR Section 90.203(j)(4) and 90.203(j)(5) spectrum efficiency requirement;

This GNSS RECEIVER is support both 12.5 KHz and 25 KHz for GMSK (digital modulation; Emission Designator:8K27G1D for data / 16K6G1D for data modes, also this Digital radio designed in accordance with ETSI TS 102 361-1 requirement, will at least support 9600 bits per second in a

12.5 KHz channel bandwidth in a 12.5 KHz channel bandwidth and 19200 bits per second in a 25 KHz channel bandwidth, GMSK will refer 2 time slots in one 12.5 KHz bandwidth and refer 4 time slots in one 25 KHz bandwidth accordance to ETSI ETS 102 361-1, which equal with $9600/2 = 4800$ and $19200/4 = 4800$ bits per second in one 6.25 KHz channel bandwidth;

We, **South Surveying & Mapping Technology Co., Ltd.** declares that the GNSS RECEIVER capable of operating on the nationwide public safety interoperability calling channel (463.625MHz), meets 47CFR Section 90.203(j)(1) requirement;

Sincerely,



(Signed)

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