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

Subject: Extend Frequencies Justification Original Application FCC ID: **2A3MU-C5**

Company: Shanghai EFIX Geomatics Co., Ltd
Address: Building 1, 158 Shuanglian Road, Qingpu District, Shanghai.

Dear Sir or Madam;

We, **Shanghai EFIX Geomatics Co., Ltd**declares that the Digital radio meets 47CFR Section 90.203(j)(4) and 90.203(j)(5) spectrum efficiency requirement;
This Digital radio is support both 12.5 KHz and 25 KHz for GMSK, 6.25KHz,12.5 KHz and 25 KHz for 4-FSK digital modulation; Emission Designator: F1D for data modes, also this Digital radio designed in accordance with ETSI TS 102 361-1 requirement, will at least support 4800 bits per second in a 6.25 KHz channel bandwidth, 9600 bits per second 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, **Shanghai EFIX Geomatics Co., Ltd**declares that the Digital radio capable of operating on the nationwide public safety interoperability calling channel (453.2125 MHz), meets 47CFR Section 90.203(j)(1) requirement;

Signature: Glenn Chu **Date:** 2022-07-11

Name: Glenn Chu

Title: Certification Manager

Company: Shanghai EFIX Geomatics Co., Ltd