



May 18, 2015

Federal Communications Commission
7435 Oakland Mills Road
Columbia MD 21046

Dear Travis:

Thank you for bringing to our attention the potential issues associated with the use of partial Band 41. This clarification letter is to address your inquiries for the following two FCC ID devices:

A3LSMP355C, Correspondence Reference # 201942, Form 731 Confirmation # TC621200

A3LSMP555C, Correspondence Reference # 202004, Form 731 Confirmation # TC824127

The above models are designed and intended for the Chinese market. Our Chinese customers, three of the major Chinese cellular carriers, each is only licensed for a segment of Band 41:

CU: 2555-2575 MHz

CMCC: 2575-2635 MHz

CTC: 2635 – 2655 MHz

That is why our Chinese models only cover 2555-2655 MHz at most. Our customers also ask us to obtain FCC certification in case the device is roaming into the US. It is not clear to us whether Band 41 LTE is currently used by the respective US roaming partners of our customers, but we imagine US carriers would also be licensed only for a segment of Band 41 as well. Regardless, the devices' main location of use is China and the devices' hardware and software are designed accordingly.

Software restriction: the frequency range of operation is set in a configuration file as explained in other e-mails. The file becomes part of the source code and together with the commands and libraries are compiled into machine (binary) code using operating system specific tool chain, all are internal and proprietary to the manufacturer. The machine code is then burned into flash memory and loaded into the program RAM during boot-up to be executed by the central processor. The machine code is not readable nor changeable except by the manufacturer. In other words, once hard coded into the configuration file, the device is not possible to operate outside the defined frequency range.



Furthermore, for Chinese models, there is a hardware 2555-2655 MHz SAW filter at the RF front end with sharp roll off. The design is necessary in order to avoid broadband noise and to maintain a desired receive signal-to-noise ratio and adequate link margin. This filter blocks any noise and signal outside the 100 MHz pass-band.

The above hardware and software designs effectively make the device not capable of operating beyond the bandwidth specified, regardless of network or post-sale configurations. Should our customers request to cover a wider range, we will follow FCC equipment approval procedures and file for C2PC or new FCC ID.

According to our records, there are other models that share the same design and the above clarification is also applicable to: A3LSMT239C, A3LSME7009, A3LSME7000, A3LSMA7000, A3LSMA7009, and A3LSMG7200 that were granted in the last few months.

Due to design confidentiality, please treat this letter as an amendment to the technical description.

Please feel free to contact us if there is any addition information required.

Best regards,

A handwritten signature in black ink, appearing to be "Chanho, YOUN", written over a horizontal line.

CHANHO, YOUN

General Manager

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