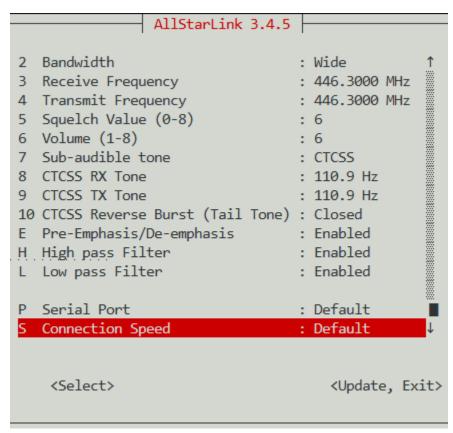
Kits 4 Hams suggested SHARI settings for ASL3 (version 19 and greater)

Our recommended settings for the SA818 radio module used in a SHARI node when using the ASL3 (version 19 and greater) Allstar image are very similar to those suggested for HamVOIP. In ASL3, SA818 programming is initiated by entering **sudo sa818-menu** at the terminal. The recommended settings, displayed by this menu, are as shown below. Of course RF frequency, CTCSS frequency, and Tail Tone are user choice. While Squelch is also user choice, we recommend that it be a higher number (tight squelch) as long as you are fairly close to your node when operating. This will help to avoid the issue of a low level on-channel interfering signal keeping the COS valid when you stop transmitting.



The recommended simpleusb settings are as shown below. The items that change from the default values are: 2, 3, G and J.

Note that the Interface Tune CLI (used to access these settings, is reached by invoking **sudo asl-menu** at the terminal and following the menus.

The ASL3 Interface Tune CLI presentation of the simpleusb settings is:

```
Active Simple USB Radio device is [44230].

    Select active USB device

Set Rx Voice Level (using display)

    Set Transmit A Level (currently '600')

Set Transmit B Level (currently '0')
B) Toggle RX Boost (currently 'disabled')
C) Toggle Pre-emphasis (currently 'disabled')
D) Toggle De-emphasis (currently 'disabled')
E) Toggle Echo Mode (currently 'disabled')
F) Flash (Toggle PTT and Tone output several times)
G) Toggle PL Filter (currently 'disabled')
H) Toggle PTT mode (currently 'ground')

    Change Carrier From (currently 'usbinvert')

J) Change CTCSS From (currently 'no')
K) Change RX On Delay (currently '0')
L) Change TX Off Delay (currently '0')
P) Print Current Parameter Values
R) View Rx Audio Statistics
Swap Current USB device with another USB device
T) Toggle Transmit Test Tone/Keying (currently 'disabled')
V) View COS, CTCSS and PTT Status
W) Write (Save) Current Parameter Values
0) Exit Menu
```

2) Set Rx Voice Level

We recommend you use node 55553 for this. Start by selecting item 2. Then press <enter> and Enter a new value of 650. Then key your radio and enter *355553. Unkey and you should connect to node 55553. Key again and speak in a normal level. Use your call to ID when you do this. Unkey and the node will announce whether your level is acceptable. Continue to enter new values until you are told that your level is acceptable, then just press <enter> to exit.

3) Set Transmit A Level

This is the voice level you hear from your radio when the node transmits. The suggested value of 600 should be acceptable but you can change it as desired. Just be aware that higher values may result in clipping of the audio on peaks.

- **G**) PL filtering is being done by low pass filter in the SA818 if the recommended settings above are used so turn it off in simpleusb
- J) CTCSS is combined with squelch in the SA818 to create the COS signal. There is not a separate CTCSS signal to Allstar so CTCSS From has to be set to 'no"