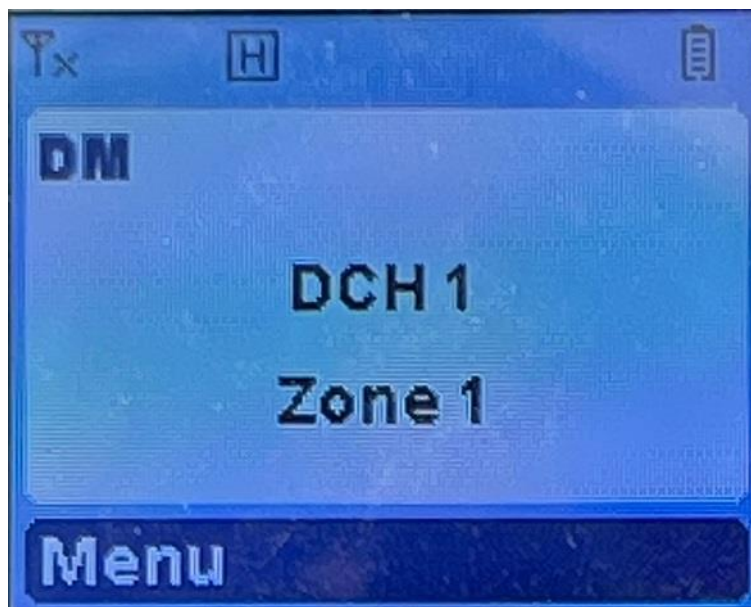# Enhanced Monitor Mode

The purpose of the enhanced monitor mode is to allow a user to sit on a channel, wait for someone to use it, analyze the channel so you can automatically set up the channel so you can return the call.

To get into the Enhanced Monitor mode, turn on the radio and you will get a screen such as the one below.

Press the OK button and you will get the following screen:

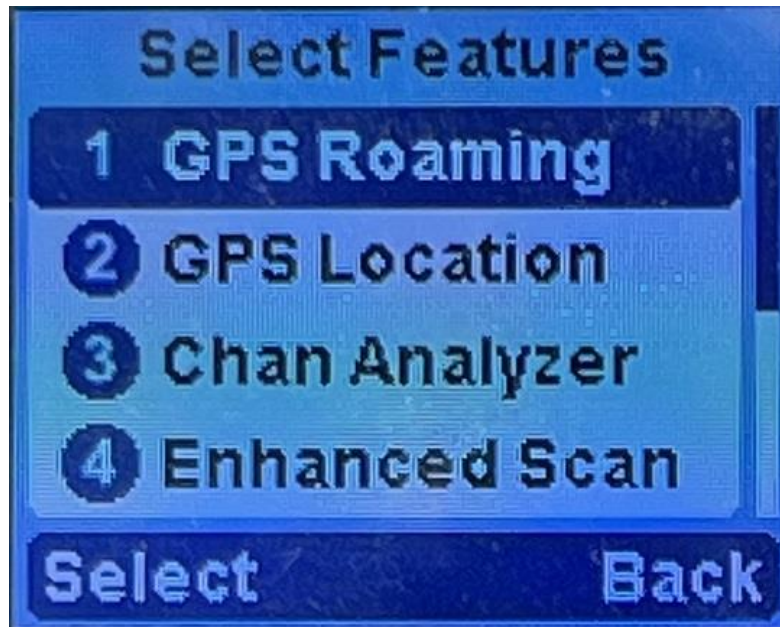**Push the down arrow key until you get the following screen:**

Press the OK button and you will get the following screen:
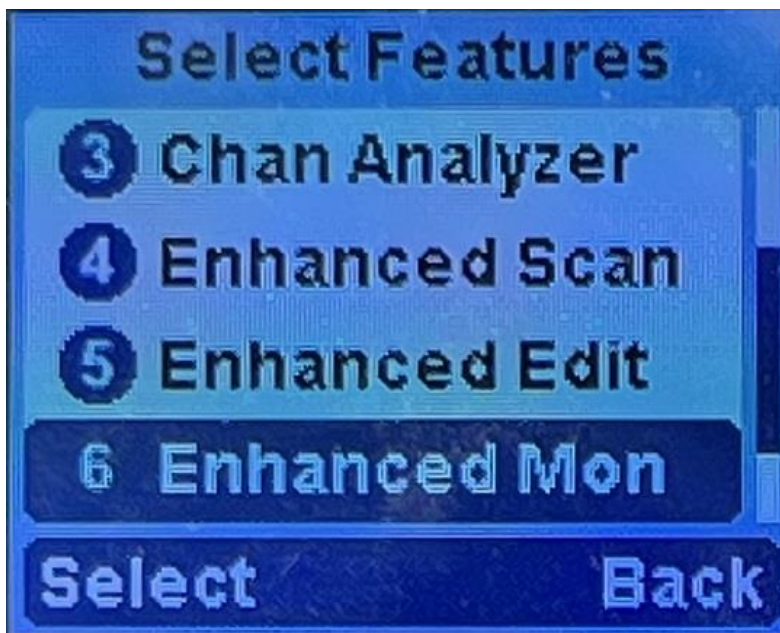

Press the down arrow key until you get the following screen:

**Press the OK button and you get the following screen:**

Press the Down arrow key until you get the following screen:

Press the OK key and you start the Enhanced Monitor program as shown in the rest of this application note.

When this program starts, the systems looks at the current channel and if the current channel is an Analog Channel, the screen will look as follows:
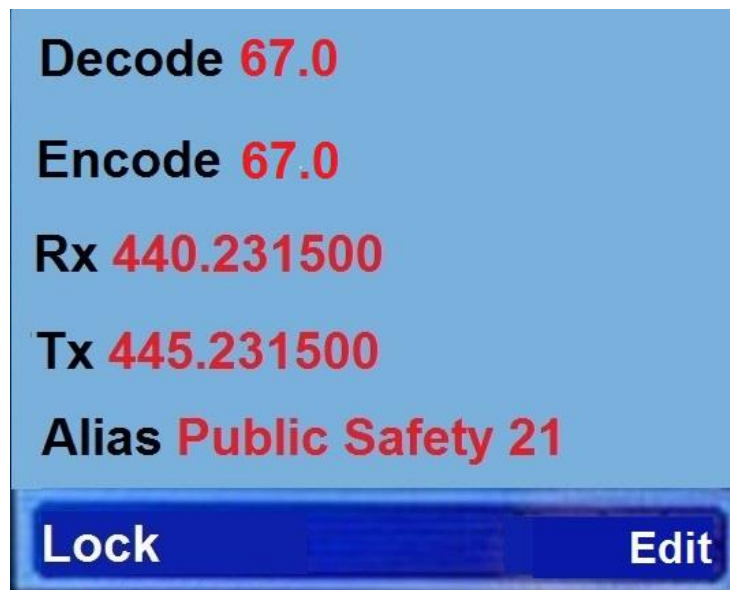
Decode

Encode

Rx 440.231500

Tx 445.231500

Alias Public Safety 21

Edit
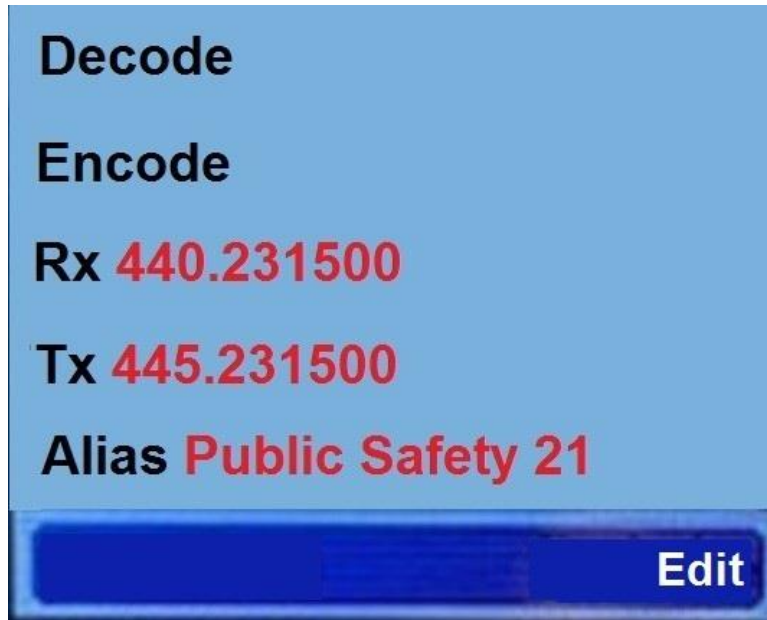
At this point the radios is looking for someone to transmit so it can analyze the channel and fill in the Decode.

If the current channel is Digital, the screen will look as follows:

If you do not like the frequency the channel was on or the Alias of the channel, press the edit to change the frequency and/or Alias. When you save the results later, you will either save it in the current channel or a free channel. If you save it in a free channel, then you should also edit the Alias otherwise you will have duplicate channel names. We do not check for duplicate channel names in this program.

If the channel had activity on that channel and it was an analog channel, then the screen will look as follows:

Note that the Encode has changed to the same frequency as Decode. If this is not correct, you will have to edit it in the enhanced Edit mode after you saved the channel. Also notice you now have an option to lock it in.

In a simplex channel, you will always make the decode and encode the same. In a repeater channel they might be different. It is not unusual for the mobile to not use CTCSS or DCS and is relying on the squelch to keep the channel quiet when not receiving anything. It is also possible the repeater is not transmitting any CTCSS or DCS but the receiver in that repeater is expecting something. You can monitor the receiver of the repeater to determine if it is necessary, but you are now dependent on receiving the signal from a mobile.

If the channel had activity on that channel and it was a digital channel, then the screen will look as follows:

CC 01 Slot 2 Type G

Contact Mount Sash North

Rx 440.231500

Tx 445.231500

KK6LFS J. Wanger
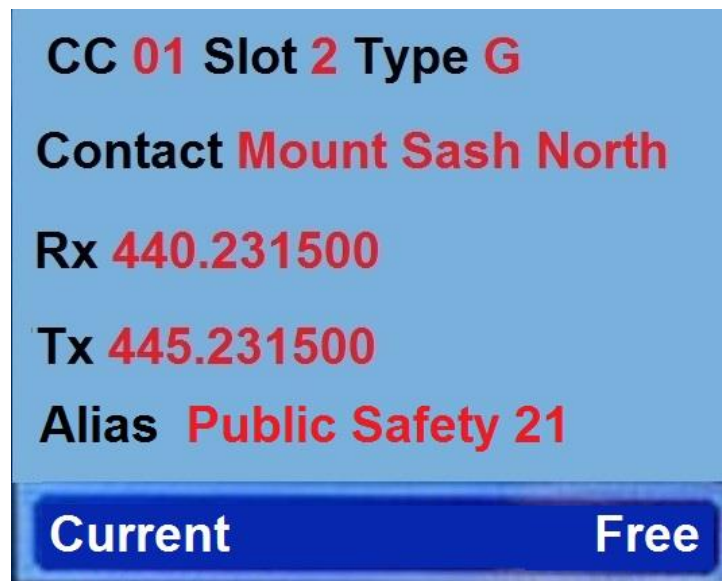
Lock   Edit

The Alias position has now changed to a Radio ID parameter. If you press the Edit button at this time, the Radio ID will change back to the Alias.

Once you see the parameters appear on the screen, you can then press the lock key to temporarily lock the information on the channel. After the lock key is pressed, you have a choice of either saving it in the current channel or saving it in a free channel, or just using it.

At any time, you can exit the program by pressing the SK1 key.

Pressing the Lock key will get you to the following screens depending if it is Analog or Digital.

Decode 67.0

Encode 67.0

Rx 440.231500

Tx 445.231500

Alias Public Safety 21

Current   Free

CC 01 Slot 2 Type G

Contact Mount Sash North

Rx 440.231500

Tx 445.231500

Alias Public Safety 21

Current   Free

Notice that the Radio ID changed back to the Alias after you pressed the lock key.

The user now has four choices. They could press the SK1 button which will exit this program but save the channel as configured. Changing the channel or turning off the radio will then loose the data.

Press the Back button which will put you in the previous screen which will now allow you to edit the parameters.

You can press the F1 button which will save the data in the current channel or you can press the F2 button which will save the data in the first free channel. This radio maintains 64 free channels. If they are all used, you will need to go to the CPS to move the channels someplace else and free up that channel.

If you forgot to change the name of the channel when you pressed the Current or free button, you can go to the edit function and change it there. Also it can be changed in the CPS as the first 64 channels are reserved for the free channels.

When you press the F2 to access the edit function, the screen shows the following:
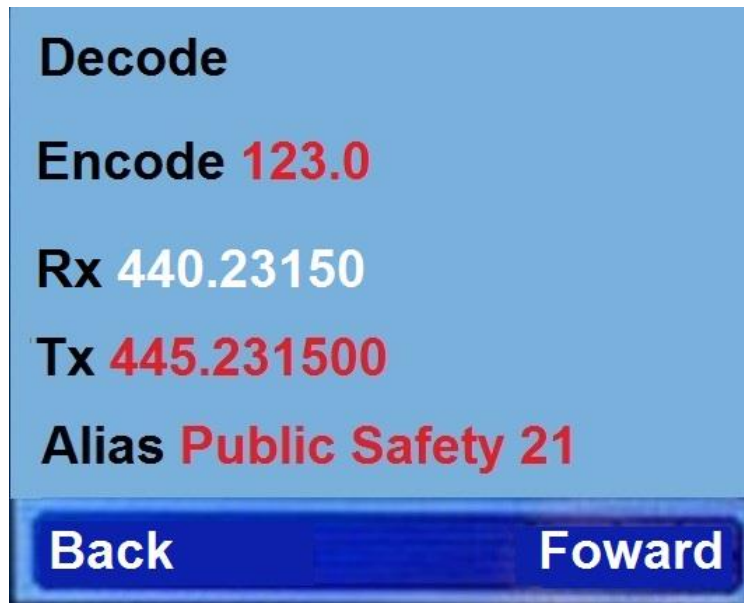
The white indicates where you are editing and the Back and Forward represented by F2 and F3 is for the cursor to allow you to change one character if necessary.

Pressing any numeric keys will enter the number at the cursor location.
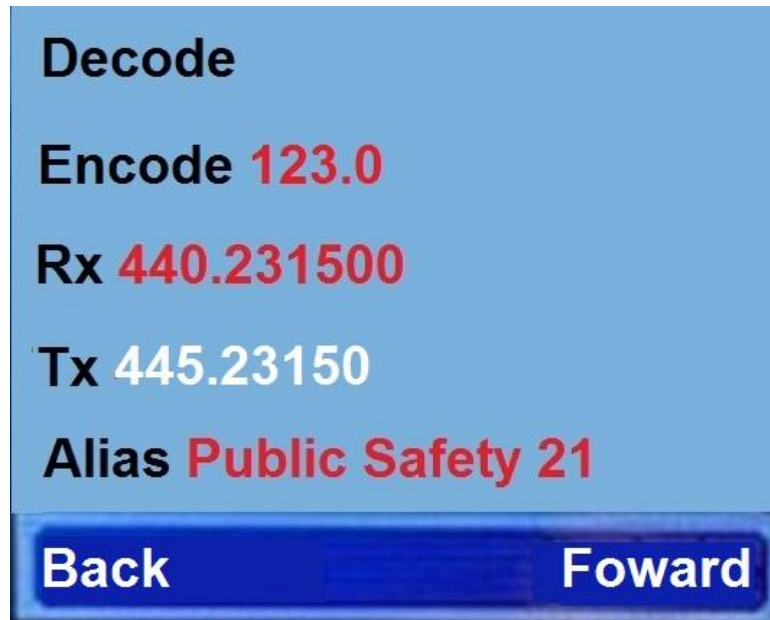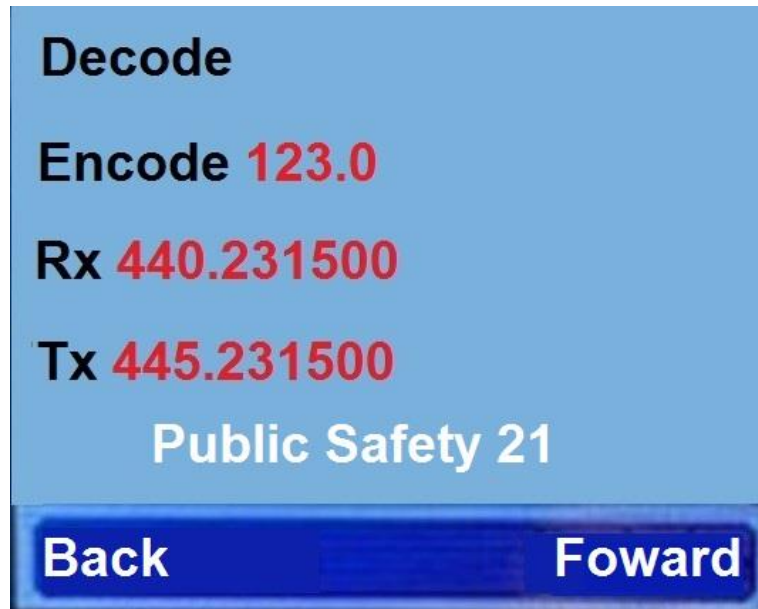
Pressing Back will restore the original Rx Frequency

Pressing SK1 will exit from this program and not save anything unless it was already saved.

Pressing SK3 will move you to the next parameter.

Any other key will generate an error beep.

Pressing SK3 at this time will get you to the following screen

The white indicates where you are editing and the Back and Forward represented by F2 and F3 is for the cursor to allow you to change one character if necessary.

Pressing any numeric keys will enter the number at the cursor location.

Pressing Back will restore the original Rx Frequency

Pressing SK1 will exit from this program and not save anything unless it was already saved.

Pressing SK2 will get you to the previous parameter

Pressing SK3 will move you to the next parameter.

Any other key will generate an error beep.

Pressing SK3 at this time will get you to the following screen


```
Decode

Encode 123.0

Rx 440.231500

Tx 445.231500

    Public Safety 21

Back                    Foward
```

When you get to the Alias screen notice the Alias indication has gone away. This is so you can edit all possible 16 characters.

The white indicates where you are editing and the Back and Forward represented by F2 and F3 is for the cursor to allow you to change one character if necessary.

Pressing any numeric keys will enter the number at the cursor location.

Pressing Back will restore the original Alias

Pressing SK1 will exit from this program and not save anything unless it was already saved.
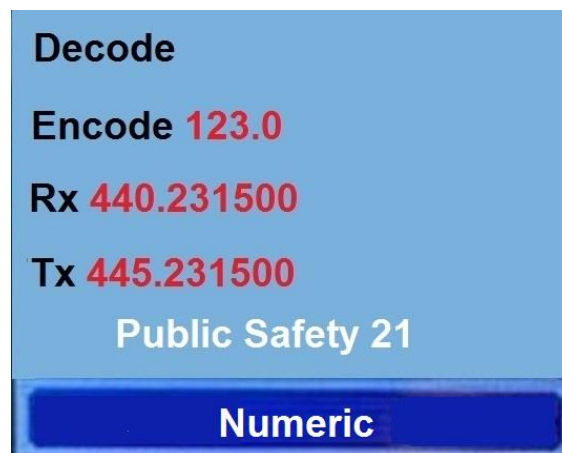
Pressing SK2 will get you to the previous parameter

Pressing SK3 will start analyzing the channel again giving you a chance to save it.

Pressing the # key will generate a space.

Pressing the * key will toggle between Numeric, Capital Alpha and Lower case Alpha as shown below. Lower case Alpha will allow you to enter in special characters using the 1 key.

Decode

Encode 123.0

Rx 440.231500

Tx 445.231500

Public Safety 21

Capital Alpha

Decode

Encode 123.0

Rx 440.231500

Tx 445.231500

Public Safety 21

Numeric

Decode

Encode 123.0

Rx 440.231500

Tx 445.231500

Public Safety 21

Alpha

Any other key will generate an error beep.