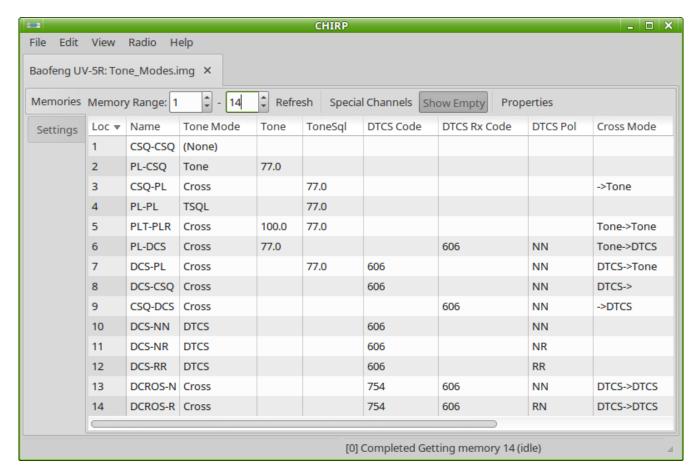# CHIRP Tone Programming Examples

The screen shot of CHIRP below contains examples of various CTCSS and DCS modes. In this example *Hide Unused Fields* is checked. The table below the screen shot contains descriptions of the Tone Mode and Cross Mode column settings for each memory channel location in the screen shot. Note that some radio models are not capable of some of the modes shown in this example.

CHIRP									_ □ X
File Edit View Radio Help									
Baofeng UV-5R: Tone_Modes.img X									
Memories Memory Range: 1 - 14 Refresh Special Channels Show Empty Properties									

Loc ▼	Name	Tone Mode	Tone	ToneSql	DTCS Code	DTCS Rx Code	DTCS Pol	Cross Mode
1	CSQ-CSQ	(None)						
2	PL-CSQ	Tone	77.0					
3	CSQ-PL	Cross		77.0				->Tone
4	PL-PL	TSQL		77.0				
5	PLT-PLR	Cross	100.0	77.0				Tone->Tone
6	PL-DCS	Cross	77.0			606	NN	Tone->DTCS
7	DCS-PL	Cross		77.0	606		NN	DTCS->Tone
8	DCS-CSQ	Cross			606		NN	DTCS->
9	CSQ-DCS	Cross				606	NN	->DTCS
10	DCS-NN	DTCS			606		NN	
11	DCS-NR	DTCS			606		NR	
12	DCS-RR	DTCS			606		RR	
13	DCROS-N	Cross			754	606	NN	DTCS->DTCS
14	DCROS-R	Cross			754	606	RN	DTCS->DTCS

[0] Completed Getting memory 14 (idle)

Loc	Name	Description
1	CSQ-CSQ	No transmit or receive tone (CSQ)
2	PL-CSQ	Transmit CTCSS - Receive CSQ
3	CSQ-PL	Transmit CSQ - Receive CTCSS
4	PL-PL	Transmit and receive the same CTCSS tone
5	PLT-PLR	Transmit and receive different CTCSS tones
6	PL-DCS	Transmit CTCSS - Receive DCS
7	DCS-PL	Transmit DCS - Receive CTCSS
8	DCS-CSQ	Transmit DCS - Receive CSQ
9	CSQ-DCS	Transmit CSQ - Receive DCS
10	DCS-NN	Transmit and receive the same DCS code with normal polarity
11	DCS-NR	Transmit and receive the same DCS code with different tx/rx polarity
12	DCS-RR	Transmit and receive the same DCS code with reverse polarity
13	DCROS-N	Transmit and receive different DCS codes with normal polarity
14	DCROS-R	Transmit and receive different DCS codes with different tx/rx polarity

Notes

- CDCSS - Continuous Digital Coded Squelch System. Also known as Digital Code Squelch (DCS), and Digital Private Line (DPL). In CHIRP it is called ***DTCS***.

- CTCSS - Continuous Tone Controlled Squelch System. Also known by various trade names such as Private Line (PL), Channel Guard and Quiet Channel. In CHIRP it is called ***Tone*** for transmit and ***TSQL*** for receive.

- Split tones - Transmitting and receiving different CTCSS tones or DCS codes. In CHIRP this is called ***Cross Mode***.

For more information see the CHIRP Memory Editor Columns page at:
http://chirp.danplanet.com/projects/chirp/wiki/MemoryEditorColumns

CHIRP home page: http://chirp.danplanet.com