

Options
Title: Not titled yet
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Output Language: Python
Generate Options: No GUI
Run Options: Prompt for Exit

Variable
Id: samp_rate_cap
Value: 250k

From my old capture, it seems like 6 channels are around 2.048M-250k, spanning ~1.5 roughly 200k between each channel

Variable
Id: center_freq
Value: 465.6M

Variable
Id: offset_tune
Value: 10k

Variable
Id: center_tune_freq
Value: 465.59M

Variable
Id: fsk_deviation_hz
Value: 600

Variable
Id: sym_rate
Value: 6k

Variable
Id: cap_sps
Value: 41

QT GUI Range
Id: center_freq
Default Value: 433.9M
Start: 433M
Stop: 434M
Step: 50

RTL-SDR Source
Device Arguments: rt....102.1
Sync: Unknown PPS
Number Channels: 1
Sample Rate (sps): 250k
Ch0: Frequency (Hz): 465.59M
Ch0: Frequency Correction (ppm): 0
Ch0: DC Offset Mode: 0
Ch0: IQ Balance Mode: 0
Ch0: Gain Mode: False
Ch0: RF Gain (dB): 38
Ch0: IF Gain (dB): 8
Ch0: BB Gain (dB): 9

Signal Source
Sample Rate: 250k
Waveform: Cosine
Frequency: -10k
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0

QT GUI Range
Id: signal_freq
Default Value: 433.9M
Start: 433M
Stop: 434M
Step: 50

Variable
Id: channel_shift
Value: 25k

Variable
Id: available_bw
Value: 230k

QT GUI Range
Id: channel_num
Default Value: 5
Start: 0
Stop: 5
Step: 1

Variable
Id: channel_0_freq
Value: 433.049M

Signal Source
Sample Rate: 250k
Waveform: Cosine
Frequency: -25k
Amplitude: 1
Offset: 0
Initial Phase (Radians): 0

Variable
Id: channel_freq
Value: channel_0_freq

QT GUI Range
Id: channel_freq
Default Value: 465.625M
Start: center_t...lable_bw/2
Stop: center_t...ilable_bw/2
Step: 500

Variable
Id: channel_freq
Value: 465.625M

QT GUI Label
Id: lbl_channel_freq
Label: lbl_channel_freq
Default Value: chan...1000000

Variable
Id: decoding_samp_rate
Value: 48k

Variable
Id: decoding_samp_per_sym
Value: 8

Variable
Id: min_power_db
Default Value: -56
Start: -80
Stop: 1
Step: 100m

QT GUI Frequency Sink
FFT Size: 6.144k
Center Frequency (Hz): ...req
Bandwidth (Hz): dec...mp_rate

QT GUI Time Sink
Number of Points: in...250)*3
Sample Rate: samp_rate_cap
Autoscale: No

Quadrature Demod
Gain: samp_rat...eviation_hz)

Variable
Id: decoding_samp_per_sym
Value: cap_sps

Variable
Id: acquire
Value: 144

QT GUI Time Sink
Number of Points: 21...er_sym
Sample Rate: decod...amp_rate
Autoscale: No

Power Squelch
Threshold (dB): -56
Alpha: 100u
Ramp: 0
Gate: Yes

File Sink
File: ...live8_overnight_48k
Unbuffered: Off
Append file: Append

Quadrature Demod
Gain: 12.7324

Delay
Delay: 286

Donno Y this is the calculation that turned out correct

Tagged burst frequency lock
Reset_Tag: squelch_sob
Reset_Tag_Value:
Lock_Time: 160
End_Tag: 'squelch_eob

Subtract

DC Blocker
Length: 144
Long Form: True

Multiply Const
Constant: 500m

NURadio constellation object autoscales your constellation so that the symbol levels have a mean magnitude of 1.0. (e.g. 4FSK levels would be +/-0.5 and +/-1.5.

Symbol Sync
Timing Error Detector: Early-Late
Samples per Symbol: 8
Expected TED Gain: 1.5
Loop Bandwidth: 487.82m
Damping Factor: 1
Maximum Deviation: 1.2
Output Samples/Symbol: 1
Interpolating Resampler: MMSE, 8 tap FIR

QT GUI Range
Id: sync_loop_bw
Default Value: 487.82m
Start: 10u
Stop: 1
Step: 10u

Constellation Object
Id: constellation_4fsk
Constellation Type: Variable Constellation
Symbol Map: 0, 2, 4, 6
Constellation Points: ... 1.5
Rotational Symmetry: 2
Dimensionality: 1
Soft Decisions LUT: auto

QT GUI Range
Id: sync_damping
Default Value: 1
Start: 10m
Stop: 3
Step: 1m

Constellation Decoder
Constellation Object: ...=4)>

Float To Complex

Add Const
Constant: -3

Repeat
Interpolation: deco...per_sy

QT GUI Time Sink
Number of Points: de...ym*180
Sample Rate: decod...amp_rate
Autoscale: No

Char To Float
Scale: 1

Multiply Const
Constant: 2

Float To Char
Scale: 1

TCP Server Sink
Destination IP Address: 0.0.0....0.0
Destination Port: 55.525k
Nonblocking Mode: Off