Options
ID: QPSK_o_4PSK
Title: Not titled yet
Output Language: Python
Generate Options: QT GUI

Variable
ID: samp_rate
Value: 32k

Variable
ID: taps
Value: 1

QT GUI Range
ID: time_offset
Label: time offset
Default Value: 1
Start: 999m
Stop: 1.001
Step: 1u

QT GUI Range
ID: freq_offset
Label: freq offset
Default Value: 0
Start: -100m
Stop: 100m
Step: 1m

QT GUI Range
ID: noise_offset
Label: noise offset
Default Value: 100u
Start: 0
Stop: 1
Step: 10m

QT GUI Range
ID: loop_bandwith
Label: loop bandwith
Default Value: 62.8319m
Start: 0
Stop: 200m
Step: 5m

Import
ID: import_0_0
Import: math

Variable
ID: rrc_taps
Value: firdes.root_raised_...

Variable
ID: sps
Value: 4

Variable
ID: nfilts
Value: 32

Random Source
ID: analog_random_source_x_0
Minimum: 0
Maximum: 256
Num Samples: 1k
Repeat: Yes

out → in

PSK Mod
ID: digital_psk_mod_0
Number of Constellation Points: 4
Gray Code: Yes
Differential Encoding: No
Samples/Symbol: 4
Excess BW: 350m

out → in

Throttle
ID: blocks_throttle2_0
Sample Rate: 32k
Limit: None

out → in

Channel Model
ID: channels_channel_model_0
Noise Voltage: 100u
Frequency Offset: 0
Epsilon: 1
Taps: 1
Seed: 0
Block Tag Propagation: No

out → in

Virtual Sink
ID: virtual_sink_0
Stream ID: psk_mod

QT GUI Constellation Sink
ID: qtgui_const_sink_x_0_0
Name: SEÑAL QPSK ORIGINAL
Number of Points: 1.024k
Autoscale: No

in

PSK IDEAL SIN RUIDO

QT GUI Constellation Sink
ID: qtgui_const_sink_x_0
Name: SEÑAL QPSK CON RUIDO
Number of Points: 1.024k
Autoscale: No

in

SEÑAL PSK CON DISTORSION

Virtual Source
ID: virtual_source_0
Stream ID: psk_mod

out → in

Polyphase Clock Sync
ID: digital_p...ck_sync_xxx_0
Samples/Symbol: 4
Loop Bandwidth: 62.8319m
Taps: rrc_taps
Filter Size: 32
Initial Phase: 16
Maximum Rate Deviation: 1.5
Output SPS: 1

out

err

rate

phase

in

QT GUI Constellation Sink
ID: qtgui_const_sink_x_0_0_0
Name: DEMODULACIÓN QPSK
Number of Points: 1.024k
Autoscale: Yes

PSK DEMODULADA