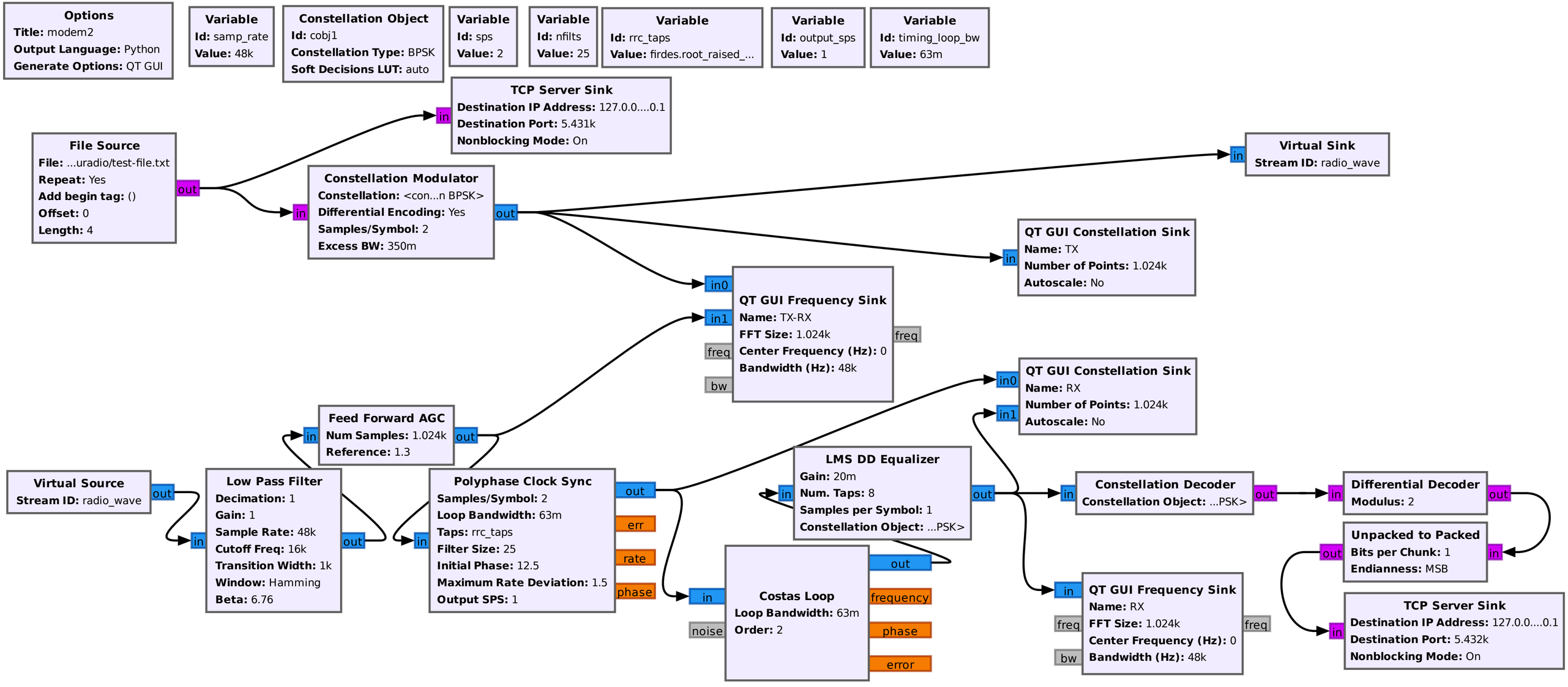
Options
Title: modem2
Output Language: Python
Generate Options: QT GUI
Variable
Id: samp_rate
Value: 48k
Constellation Object
Id: cobj1
Constellation Type: BPSK
Soft Decisions LUT: auto
Variable
Id: sps
Value: 2
Variable
Id: nfilts
Value: 25
Variable
Id: rrc_taps
Value: firdes.root_raised_...
Variable
Id: output_sps
Value: 1
Variable
Id: timing_loop_bw
Value: 63m
TCP Server Sink
Destination IP Address: 127.0.0....0.1
Destination Port: 5.431k
Nonblocking Mode: On
File Source
File: ...uradio/test-file.txt
Repeat: Yes
Add begin tag: ()
Offset: 0
Length: 4
Constellation Modulator
Constellation: <con...n BPSK>
Differential Encoding: Yes
Samples/Symbol: 2
Excess BW: 350m
Virtual Sink
Stream ID: radio_wave
QT GUI Constellation Sink
Name: TX
Number of Points: 1.024k
Autoscale: No
QT GUI Frequency Sink
Name: TX-RX
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 48k
QT GUI Constellation Sink
Name: RX
Number of Points: 1.024k
Autoscale: No
Feed Forward AGC
Num Samples: 1.024k
Reference: 1.3
Virtual Source
Stream ID: radio_wave
Low Pass Filter
Decimation: 1
Gain: 1
Sample Rate: 48k
Cutoff Freq: 16k
Transition Width: 1k
Window: Hamming
Beta: 6.76
Polyphase Clock Sync
Samples/Symbol: 2
Loop Bandwidth: 63m
Taps: rrc_taps
Filter Size: 25
Initial Phase: 12.5
Maximum Rate Deviation: 1.5
Output SPS: 1
LMS DD Equalizer
Gain: 20m
Num. Taps: 8
Samples per Symbol: 1
Constellation Object: ...PSK>
Costas Loop
Loop Bandwidth: 63m
Order: 2
Constellation Decoder
Constellation Object: ...PSK>
Differential Decoder
Modulus: 2
Unpacked to Packed
Bits per Chunk: 1
Endianness: MSB
QT GUI Frequency Sink
Name: RX
FFT Size: 1.024k
Center Frequency (Hz): 0
Bandwidth (Hz): 48k
TCP Server Sink
Destination IP Address: 127.0.0....0.1
Destination Port: 5.432k
Nonblocking Mode: On