

Results: Pass

Test: Occupied Bandwidth of Bit Patterns

Test Standard: FCC 2.1049

Test Date: Feb 5 2007

Test Engineer: Byron Kubert

Test Details:

Test	Occupied Bandwidth	Passed
2second-drop-outs.data	178.69	Pass
cch-channel-seven-dummy.data	236.92	Pass
oneburst.data	38.15	Pass
page-drop-outs.data	148.58	Pass
randomburst.data	254.99	Pass
squarewave.data	36.14	Pass
tch-probe-eight-channels.data	224.88	Pass
tch-probe-four-channels.data	234.91	Pass
tch-probe-one-channel.data	234.91	Pass
zero-end-tch-probe-eight-channels.data	234.9	Pass
zeroburst.data	38.14	Pass

The following bit patterns were sent to the device, and passed the occupied bandwidth test.

Test Patterns :

2 second drop out

random data interrupted with 2 second periods of no data. This simulates a temporary cable disconnect.

cch-channel-seven-dummy.data

valid control channel data in timeslot 0 and seven dummy bursts in the other seven timeslots.

oneburst.data

156 ones.

page drop out

blocks of 512 zeros interspersed with the data every 512 samples

randomburst.data

about 125000 random bits.

squarewave.data

1156 bits in a 0 0 1 1 0 0 1 1 pattern. This pattern will push the GSMK modulator from $+\pi/2$ to $-\pi/2$, its maximum values.

tch-probe-eight-channels.data

valid framed traffic channel data in timeslots 0-7.

tch-probe-four-channels.data

valid framed traffic channel data in timeslot 0-3 and four dummy bursts in the other four timeslots.

tch-probe-one-channel.data

valid framed traffic channel data in timeslot 0 and seven dummy bursts in the other timeslots.

zero-end-tch-probe-eight-channels.data

valid framed traffic channel data in timeslots 0-7 for the first half of the file, and then an equal number of zeros in the second half of the file.

zeroburst.data

56 zeros.

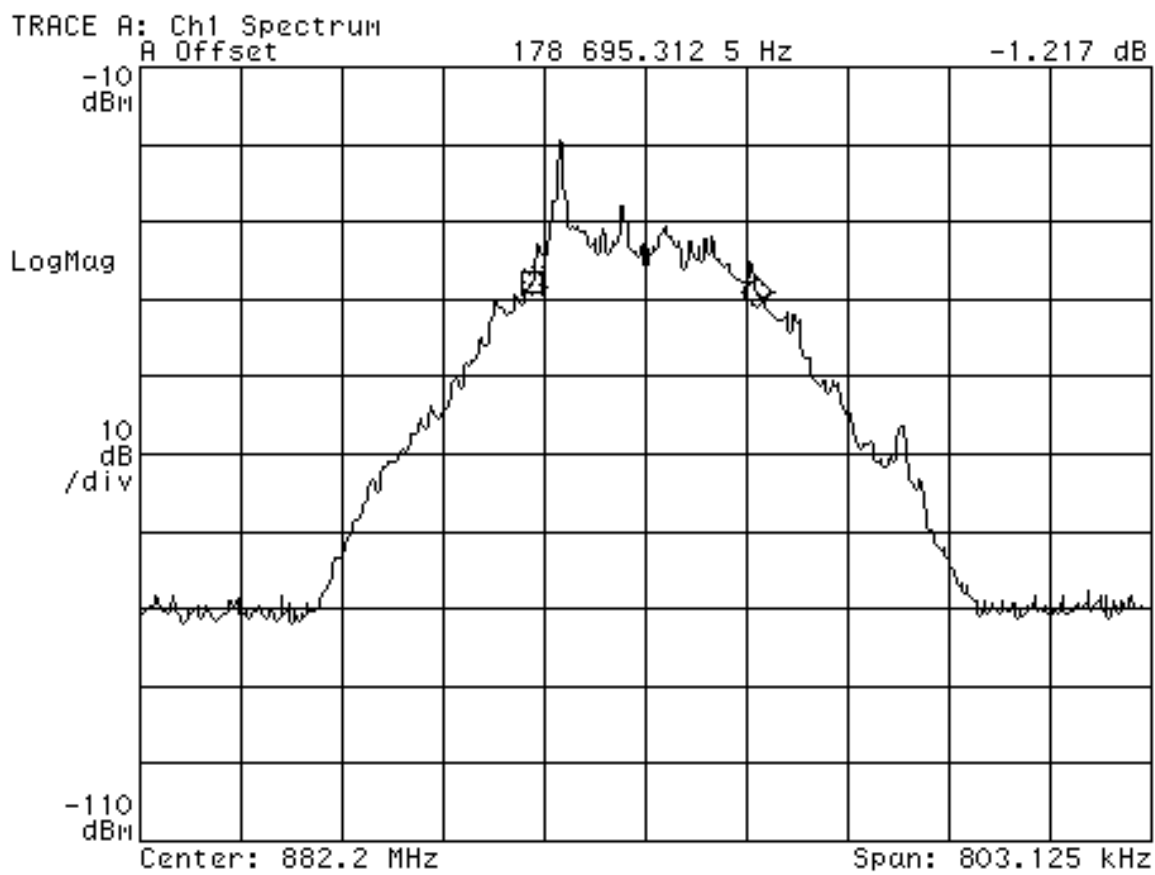


Figure 1: 2second-drop-outs.png

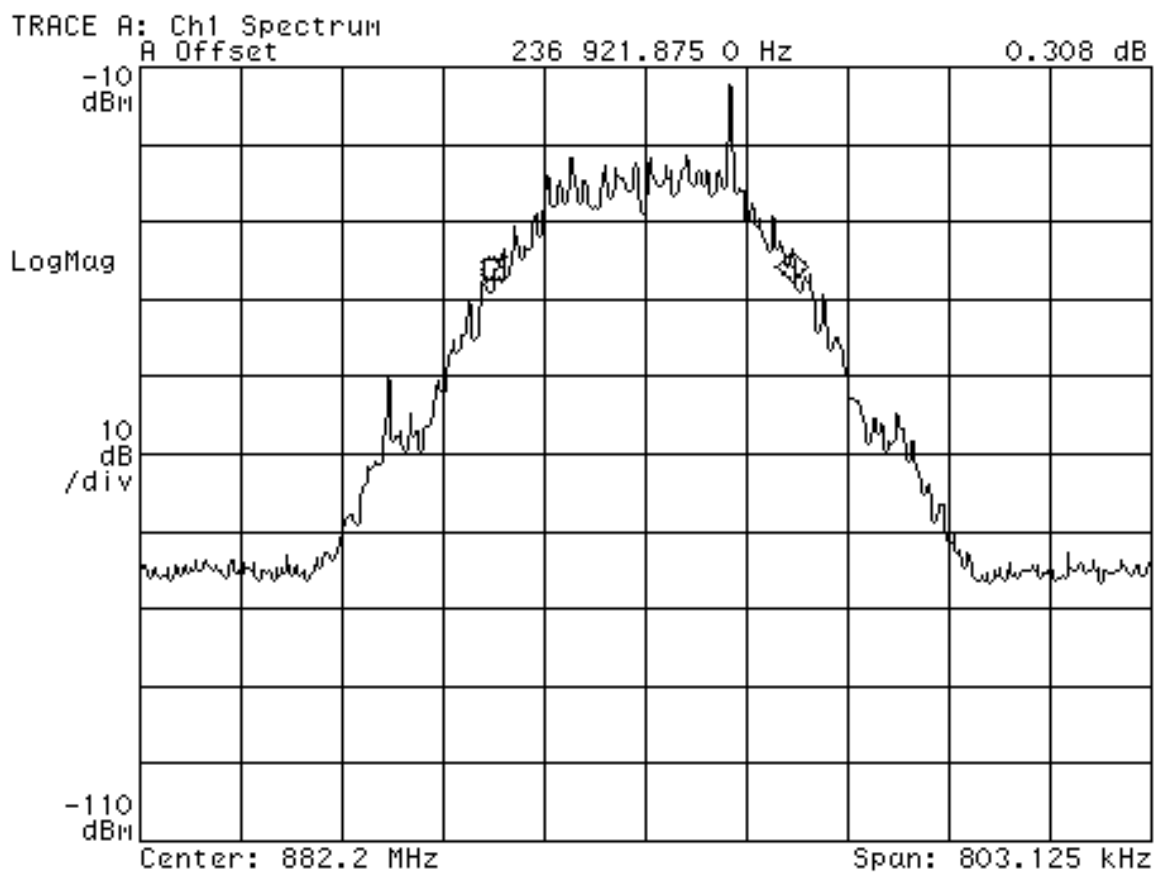


Figure 2: cch-channel-seven-dummy.png

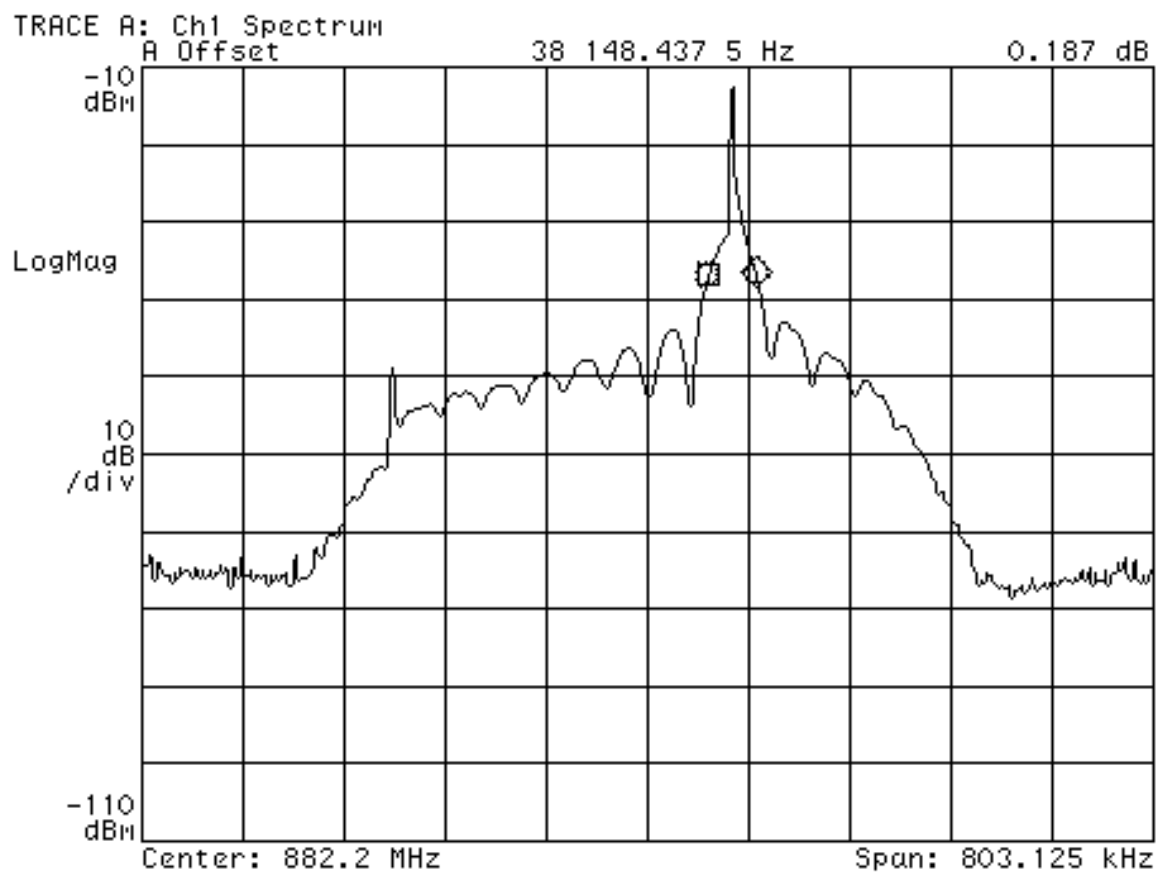


Figure 3: oneburst.png

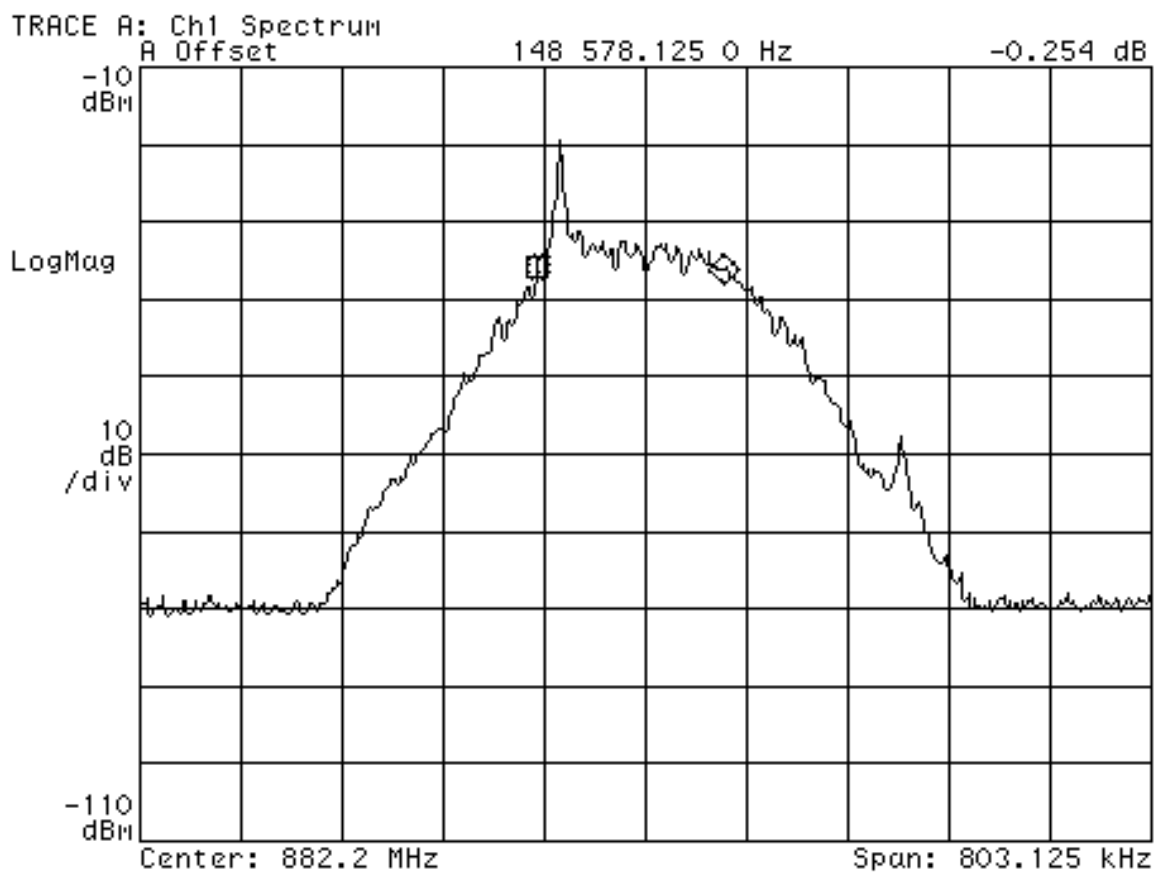


Figure 4: page-drop-outs.png

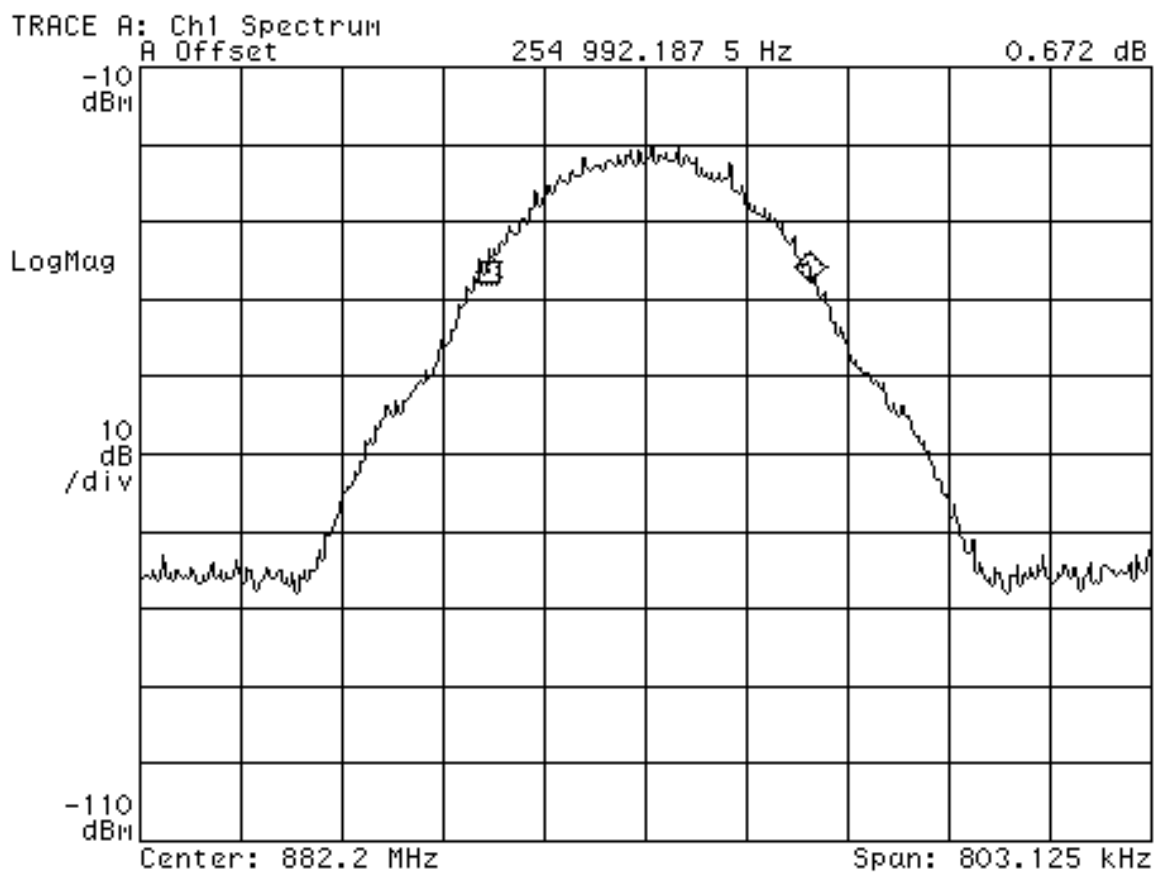


Figure 5: randomburst.png

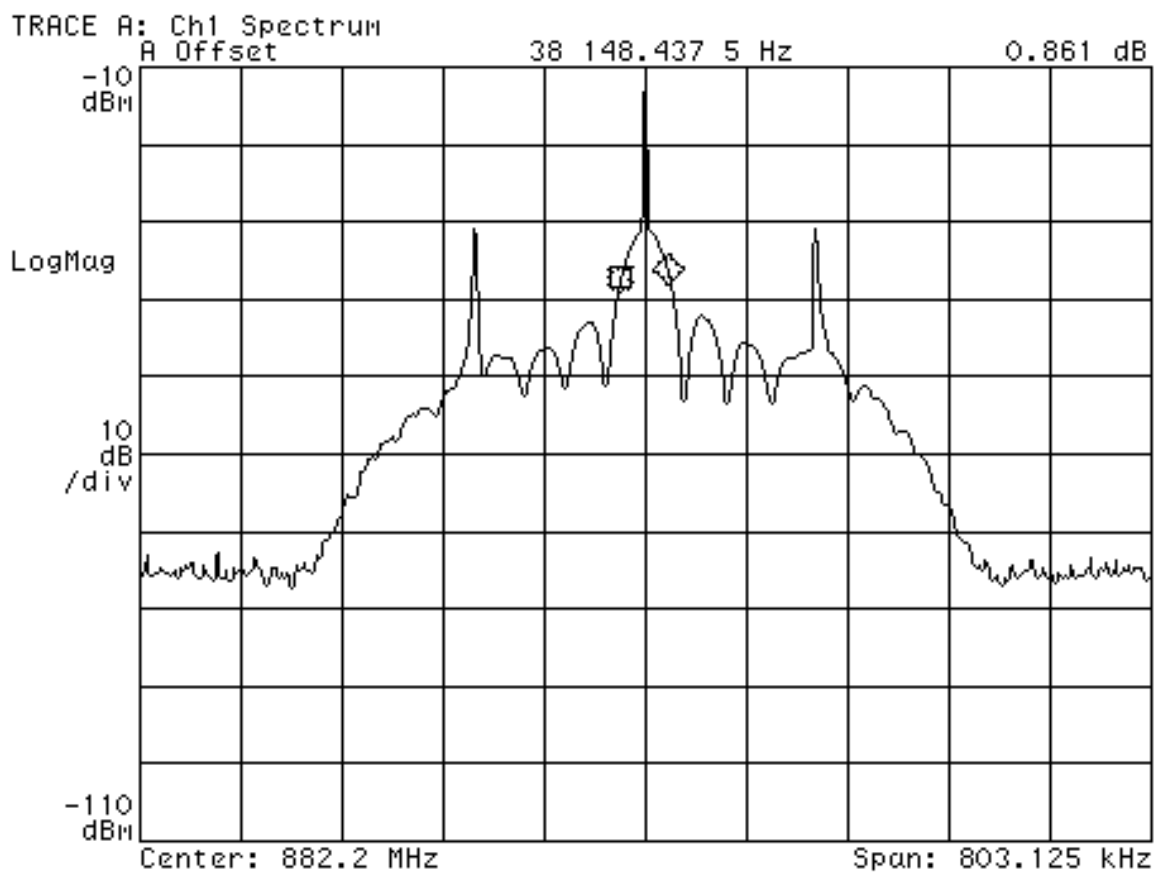


Figure 6: squarewave.png

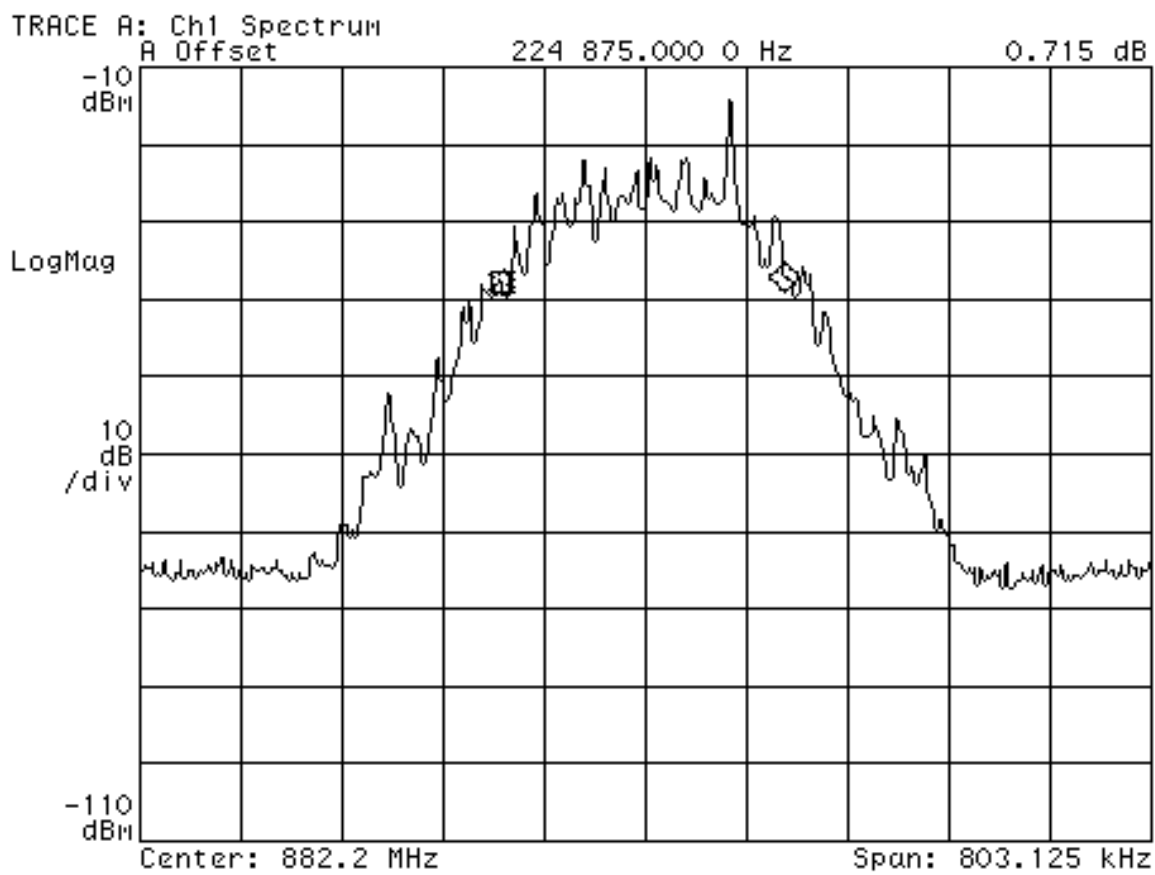


Figure 7: tch-probe-eight-channels.png

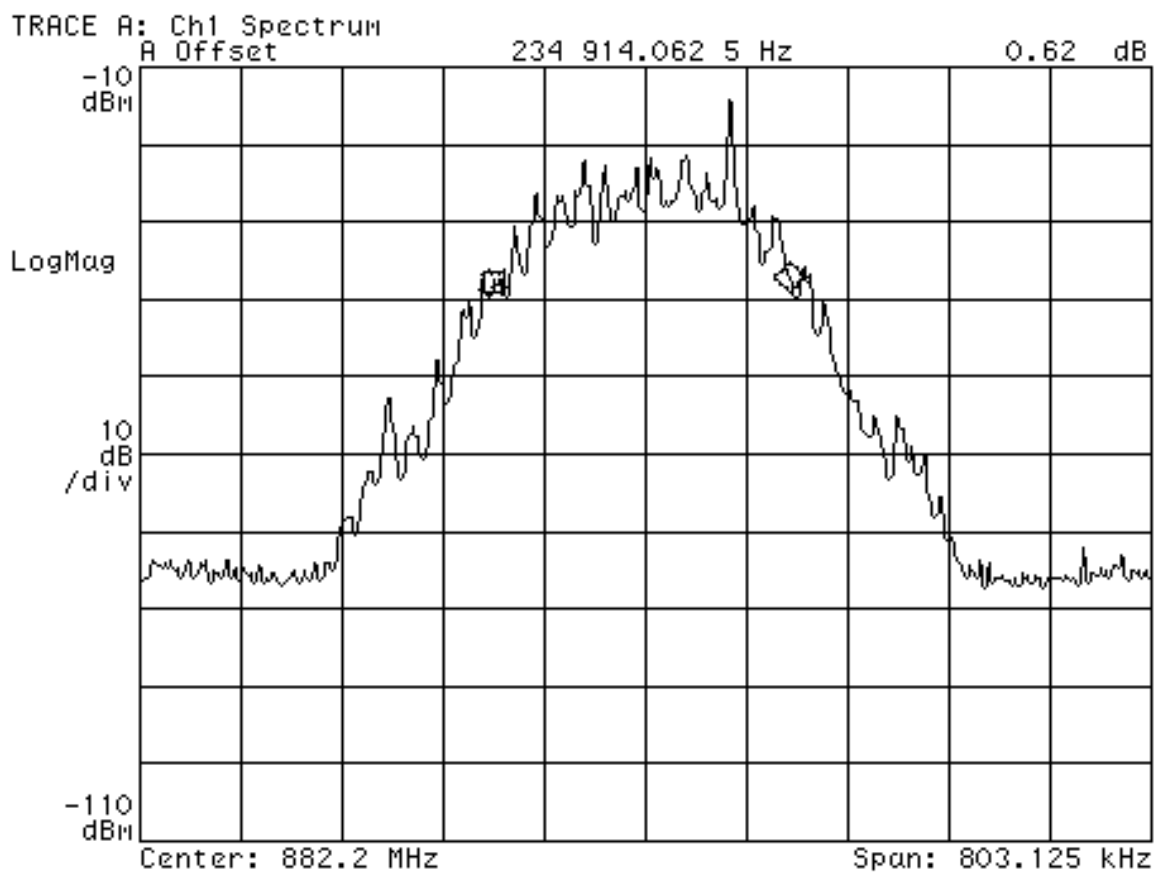


Figure 8: tch-probe-four-channels.png

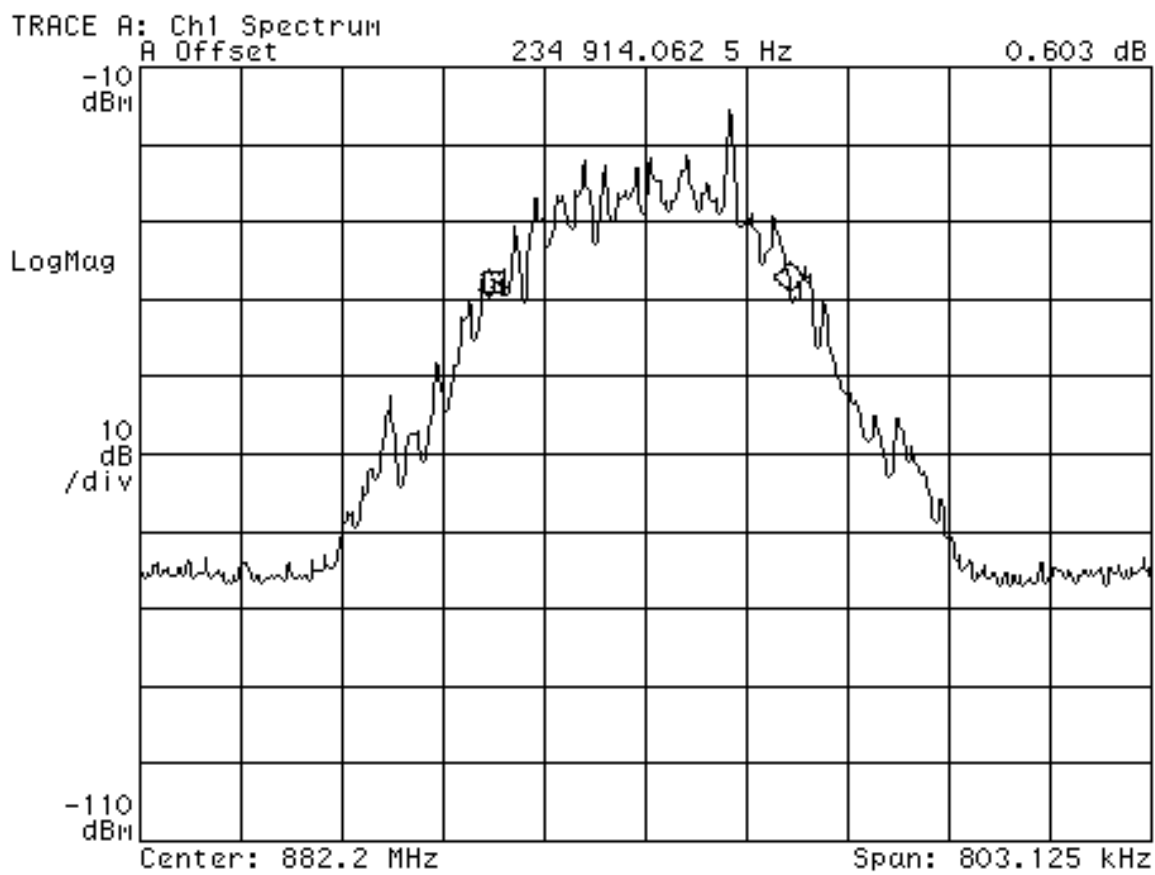


Figure 9: tch-probe-one-channel.png

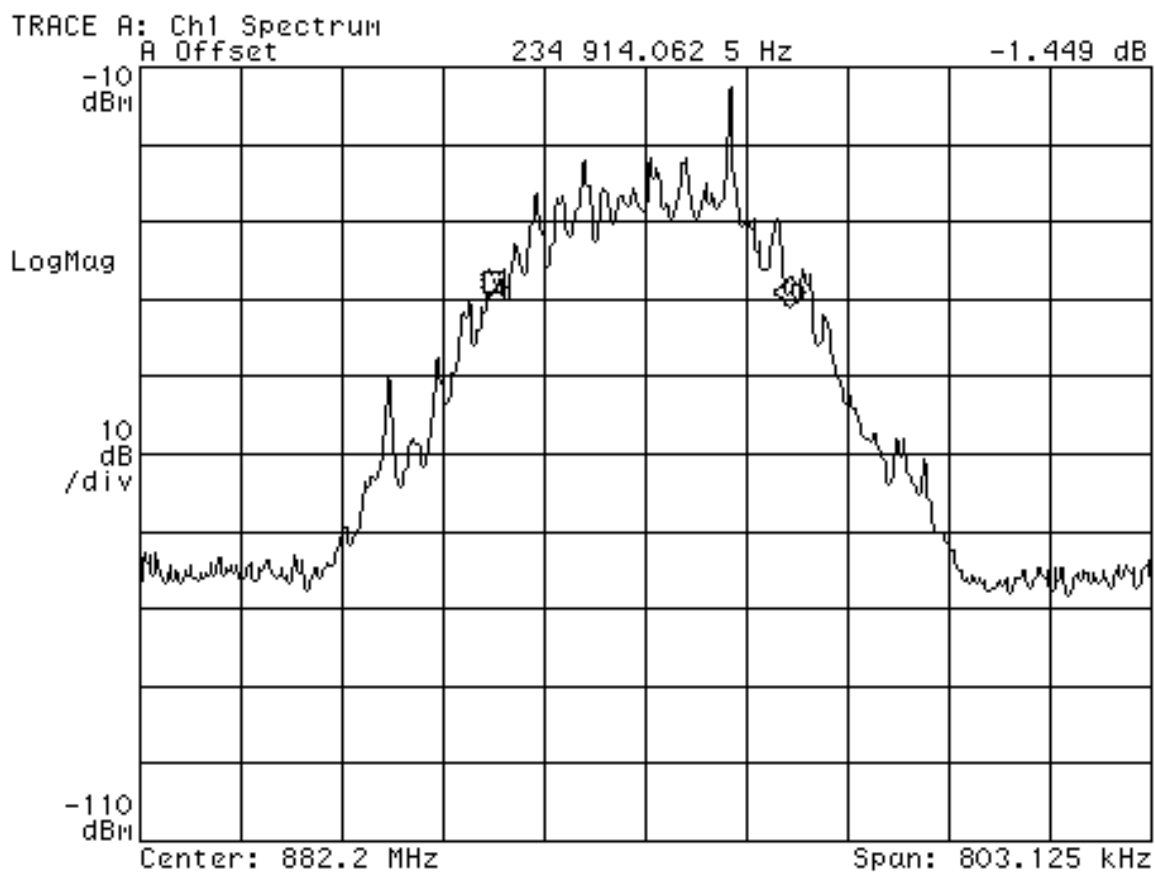


Figure 10: zero-end-tch-probe-eight-channels.png

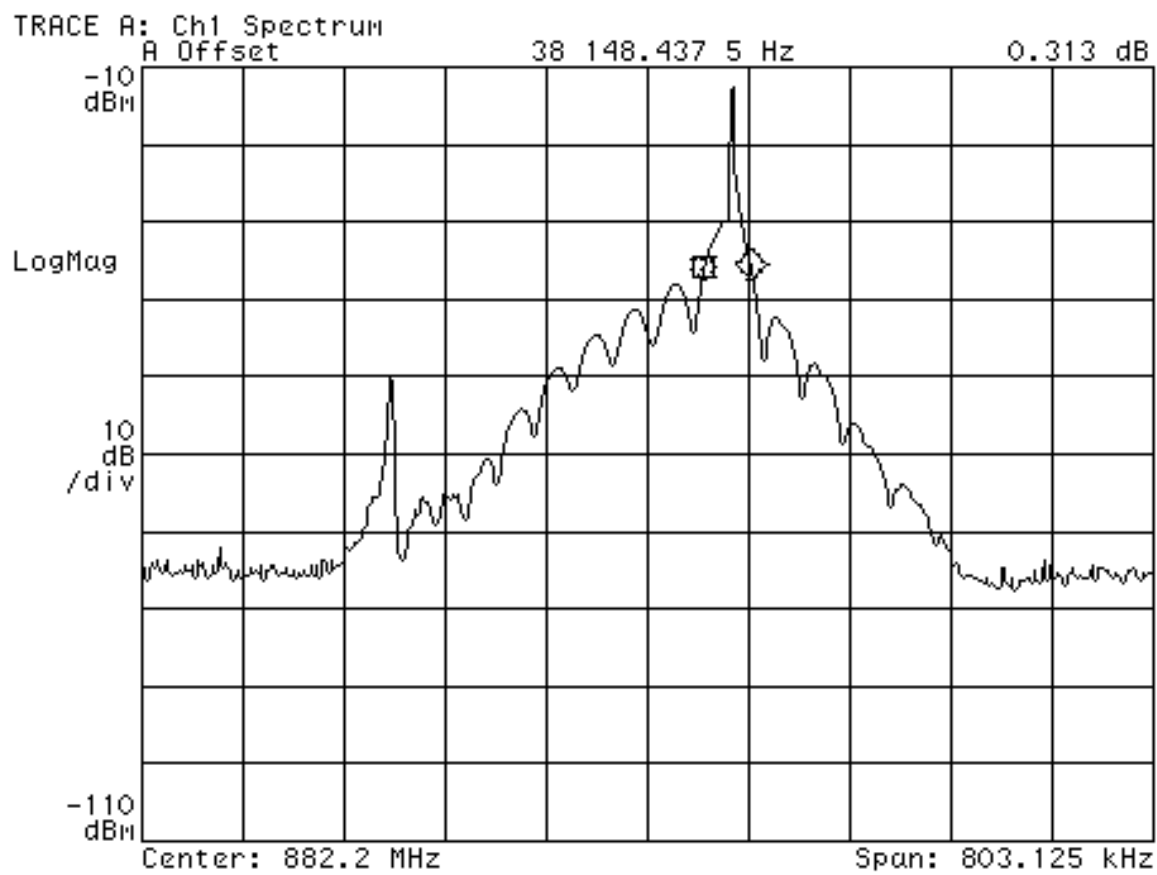


Figure 11: zeroburst.png