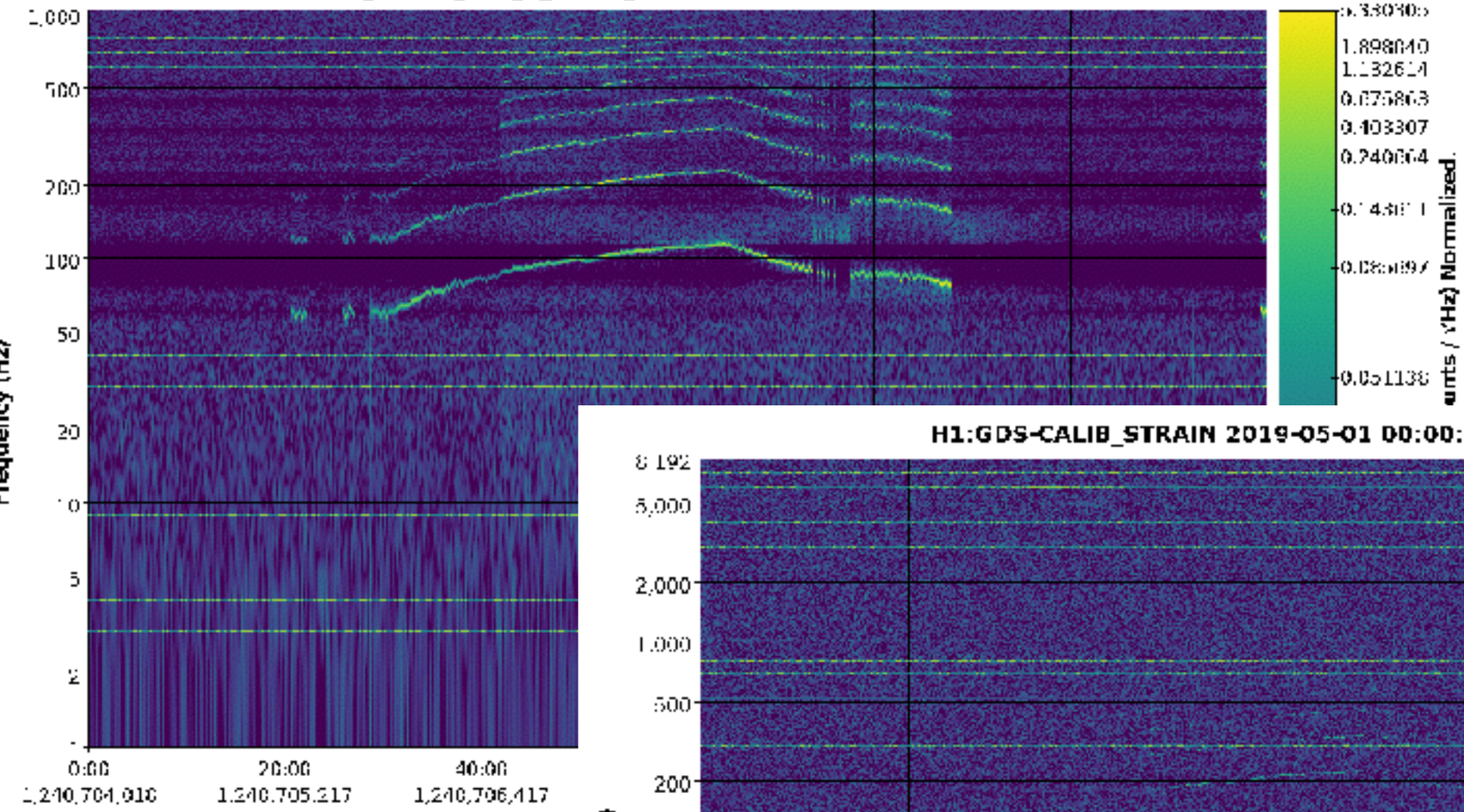
H1:SQZ-OMC_TRANS_RF3_Q_NORM_DQ 2019-05-01 00:00:00 - 1,240,704,018 (2:00:00)

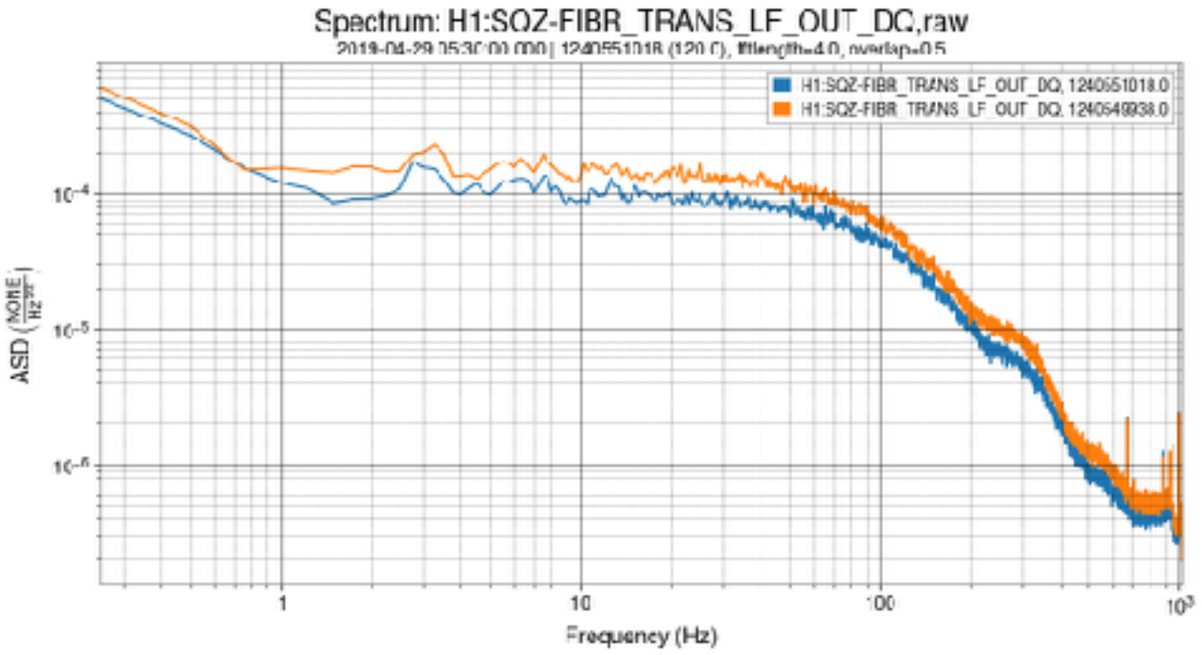


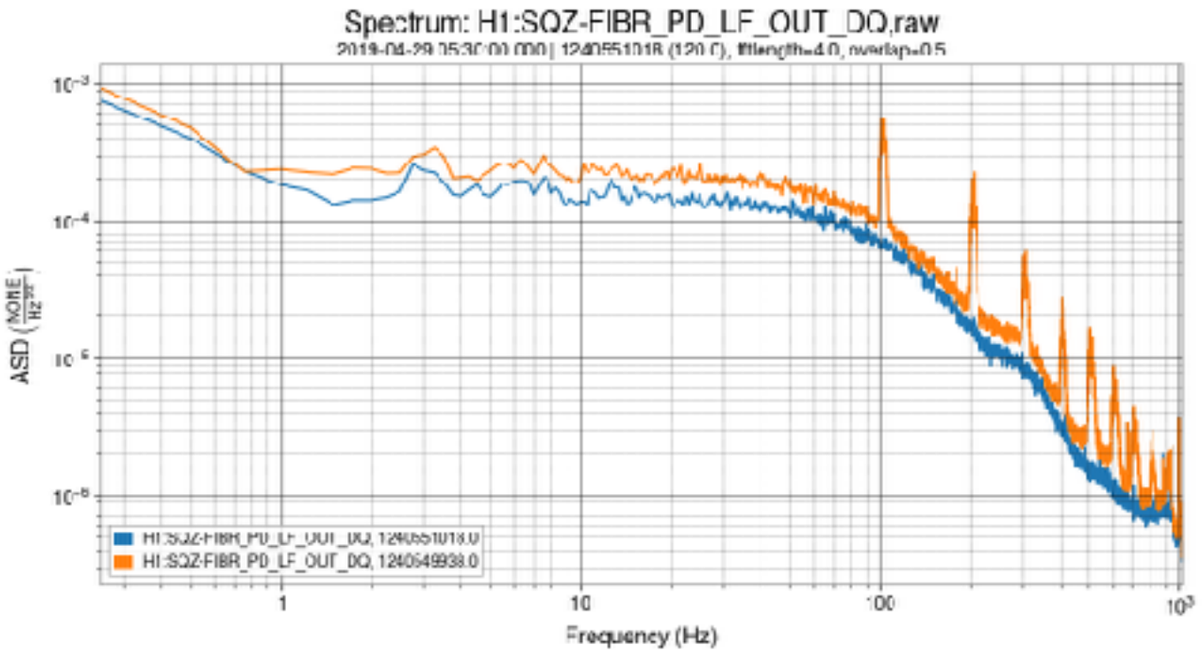
Fs=2,048Hz, sec/fft = 1.00, overlap = 0.50, filter

H1:GDS-CALIB_STRAIN 2019-05-01 00:00:00 - 1,240,704,018 (2:00:00)

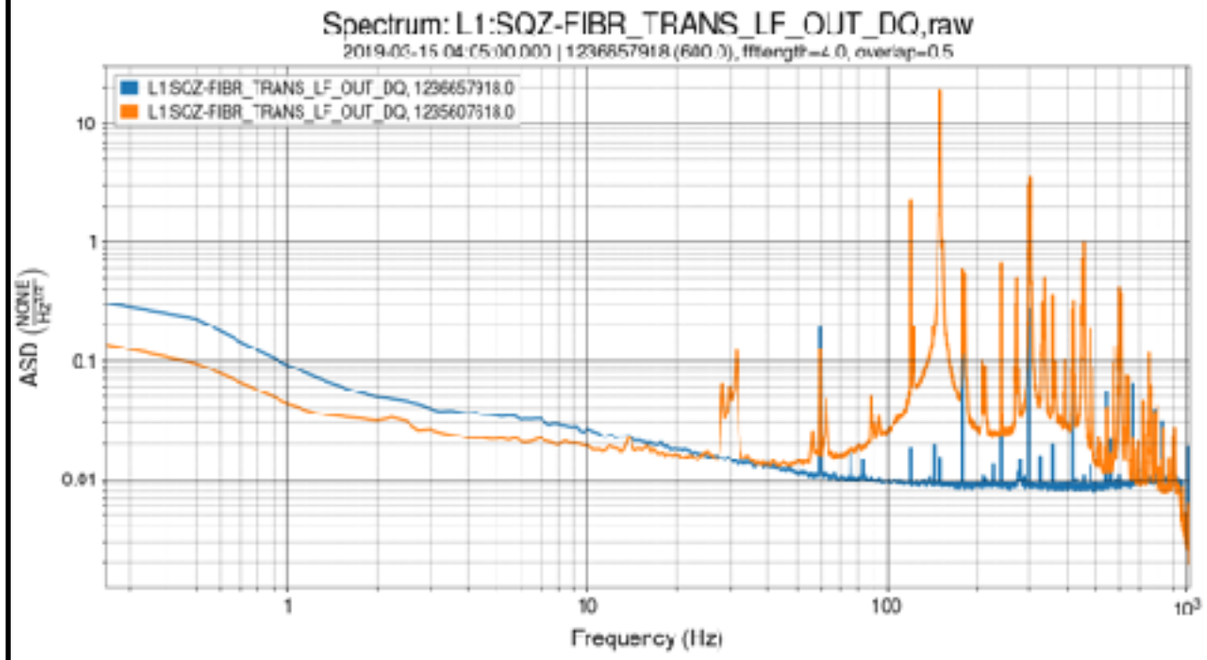
Fs=16,384Hz, sec/fft = 1.00, overlap = 0.50, fft length=16,384, # FFT = 14399, bw = 1, In samples = 117,965K, low = 0.20

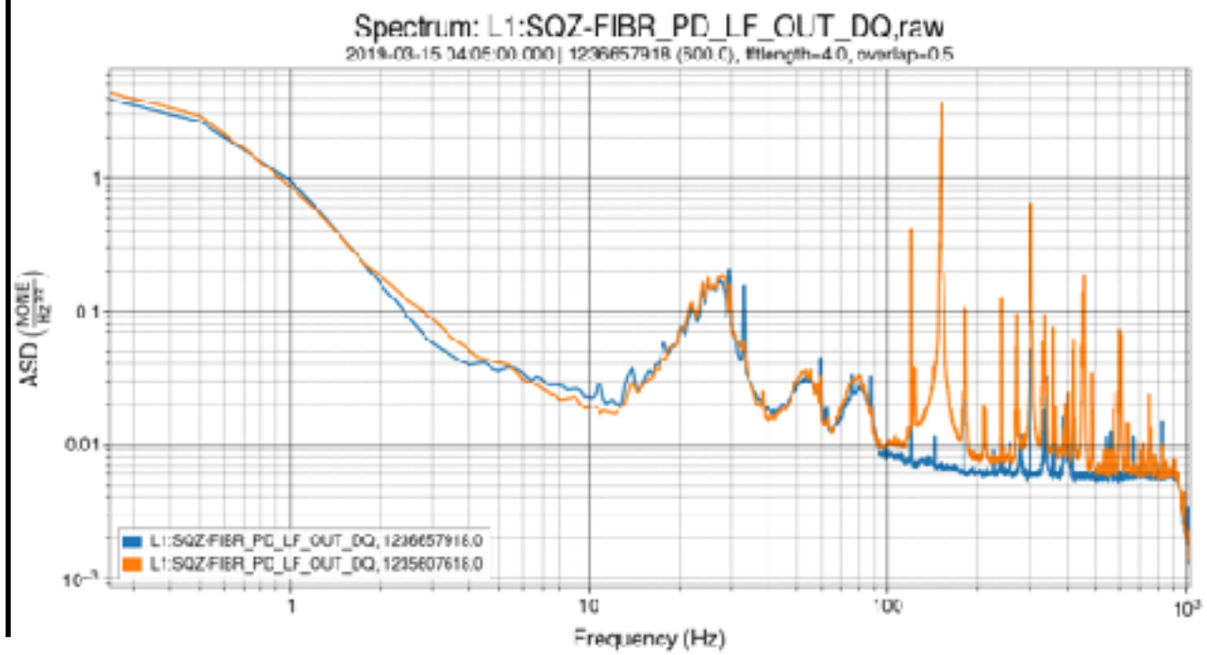
LHO Squeezer Problem





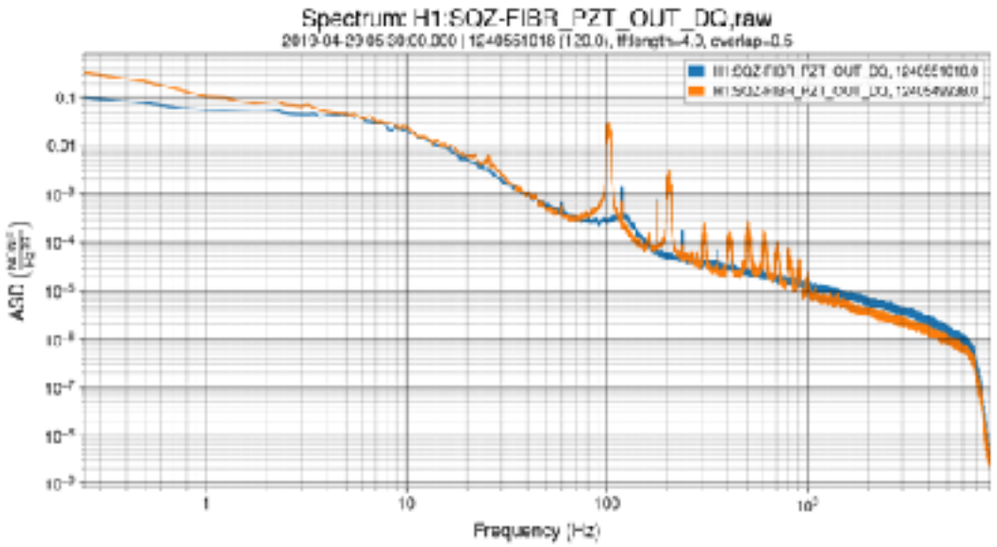
LLO Squeezer Problem

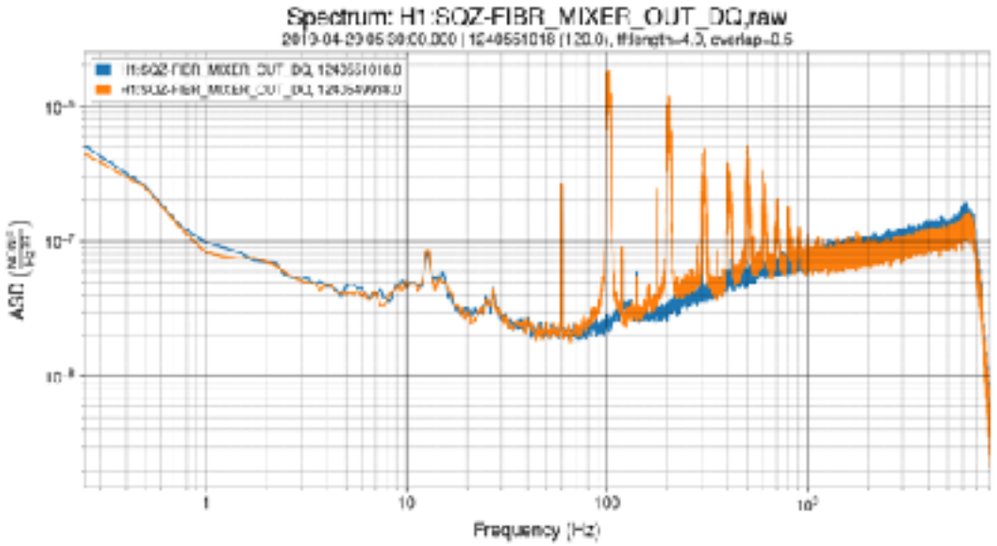


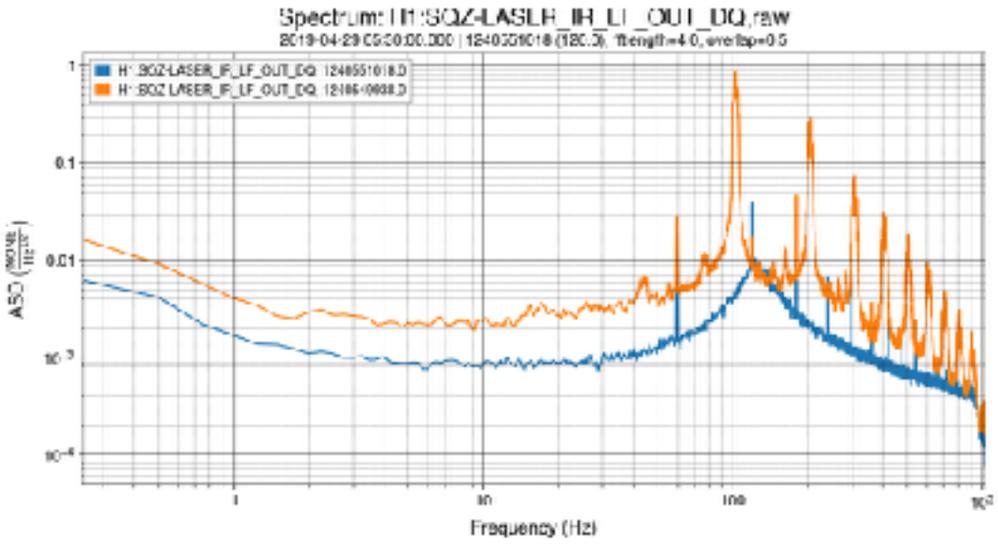


Blue is reference time, orange during the excess noise.
LHO doesn't see anything on the fiber transmitted, otherwise the noise shows up in a similar set of channels.

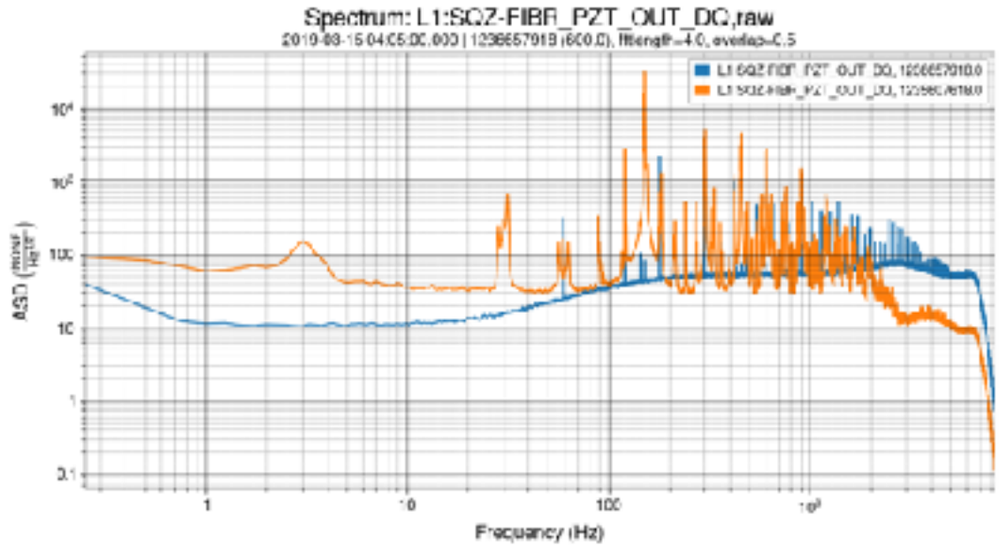
LHO Squeezer Problem

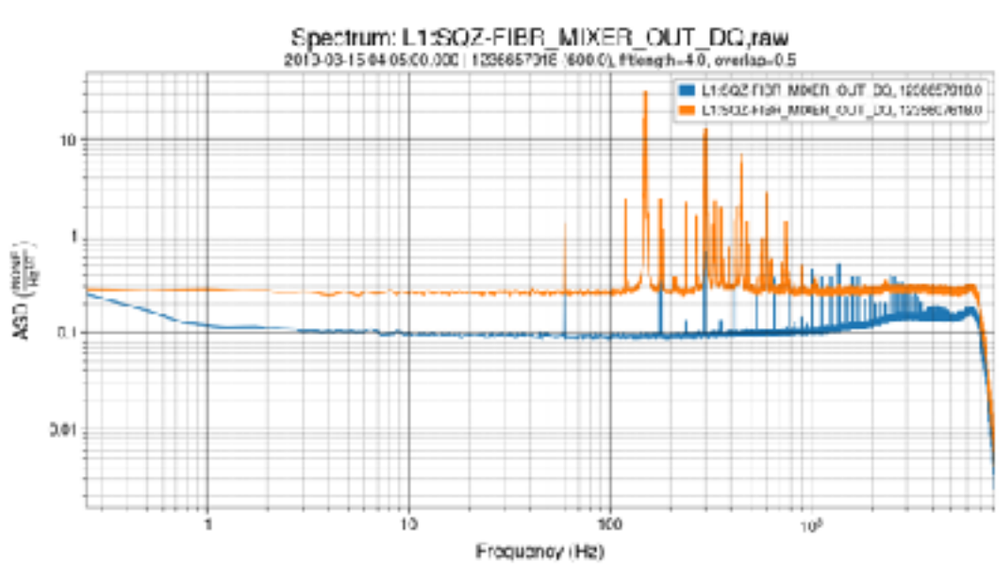


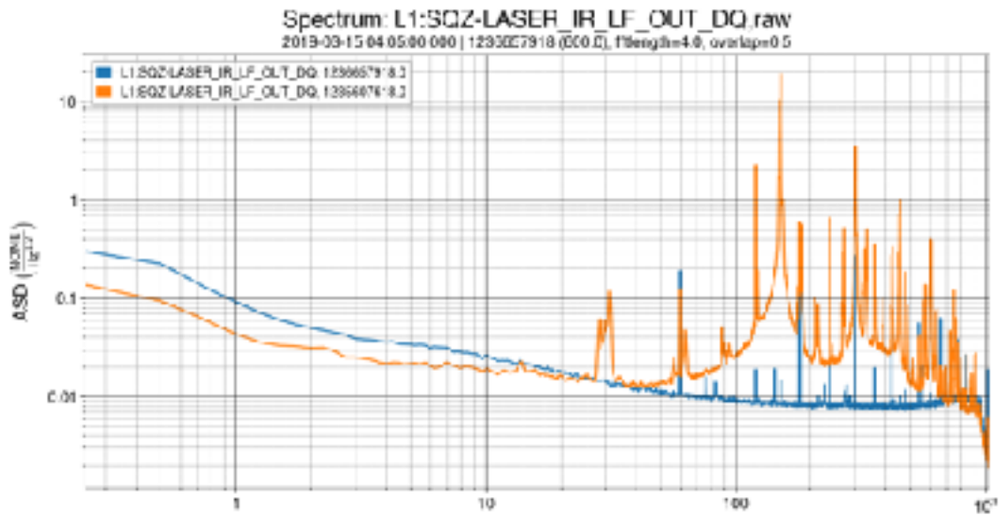




LLO Squeezer Problem







H1:SQZ-LASER_IR_LF_OUT_DQ 2019-04-29 04:45:00 - 1,240,548,318 (1:00:00)

1,024

683

1.491607
0.274286
0.117619
0.050437
0.021628
0.009275
0.003977
0.001705
0.000731
0.000617
0.000521
0.000440
0.000371
0.000314

Amplitude spectral density (Counts / √Hz)

0
1.917

Time series: H1:SQZ-OPO_REFL_RF80_DEMOD_RFMON.raw

Fs: (16.0 Hz), duration: 3600.0

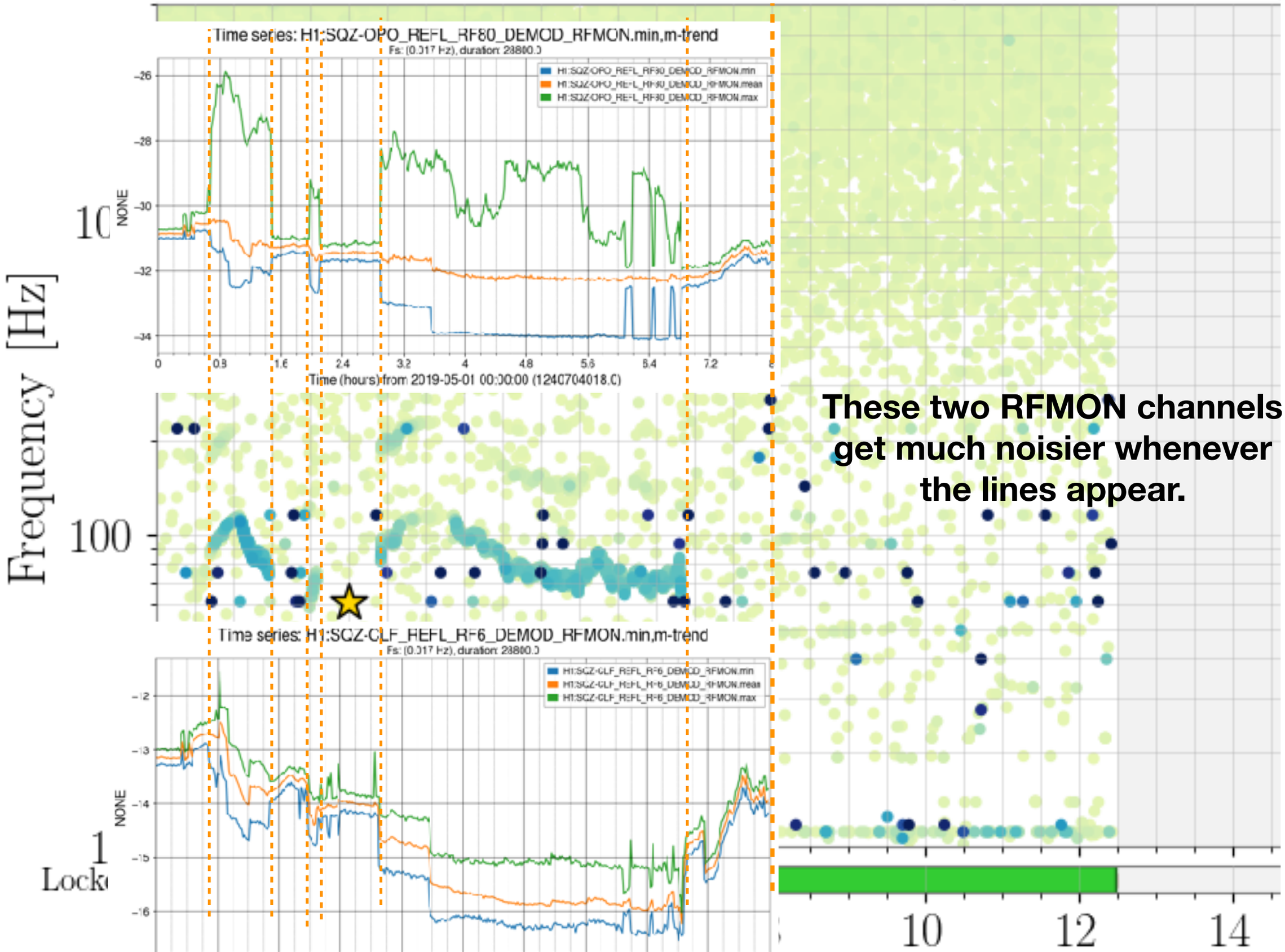
-30.0
-30.5
-31.0
-31.5
-32.0
-32.5
-33.0

0 5 10 15 20 25 30 35 40 45 50 55 60

Time (minutes) from 2019-04-29 04:45:00 (1240548318.0)

H1:GDS-CALIB_STRAIN

Loudest event: SNR = 7994.96, Peak = 1240713056.08



These two RFMON channels get much noisier whenever the lines appear.