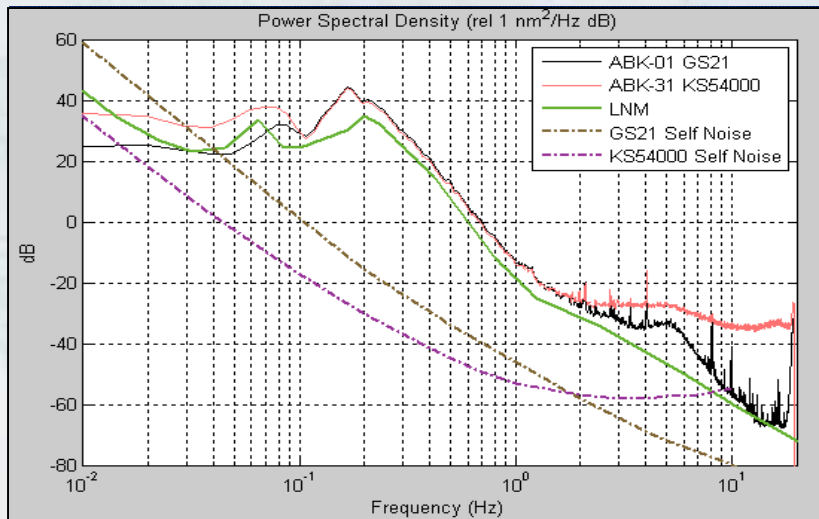


(X-XX) Effects on Aging Hardware on Data Quality



Objective(s):

Determine the reason for amplitude scaling differences associated with aging for co-located GS21 and KS54000 seismometers.

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Final Products:

- Determination on cause of scaling bias
- Recommendation on how to limit and mitigate hardware aging effects.
- Recommendation on how to standardize FAP file creation.

Technical Challenges:

- Determining the actual cause of scaling bias.
- Setting up a complete "hot spare" sensor set.

Research Accomplishments to Date:

- Received sample data from 11 co-located seismometers.
- Used data to compile sensitivity tables to account for scaling biases between the KS54000, GS21, AIM24S3, and AIM23S1.
- Compiled meta-data for sensors at each station consisting of FAP resolution and frequency overlap.
- Prepared the SNL FACT site to receive the "hot spare" station for testing.