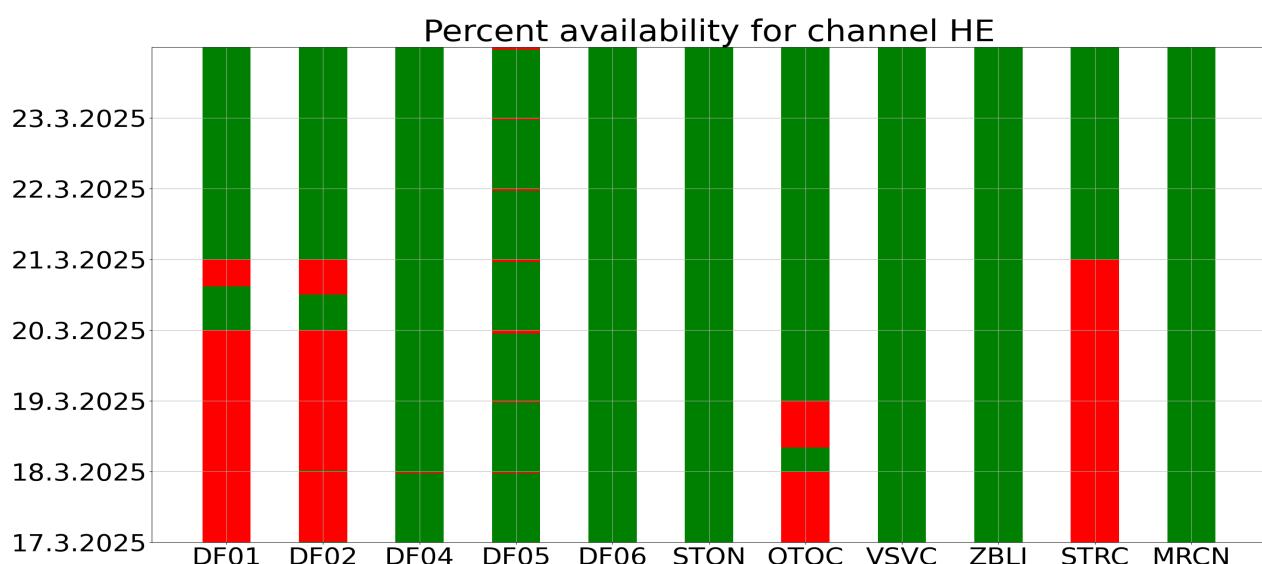
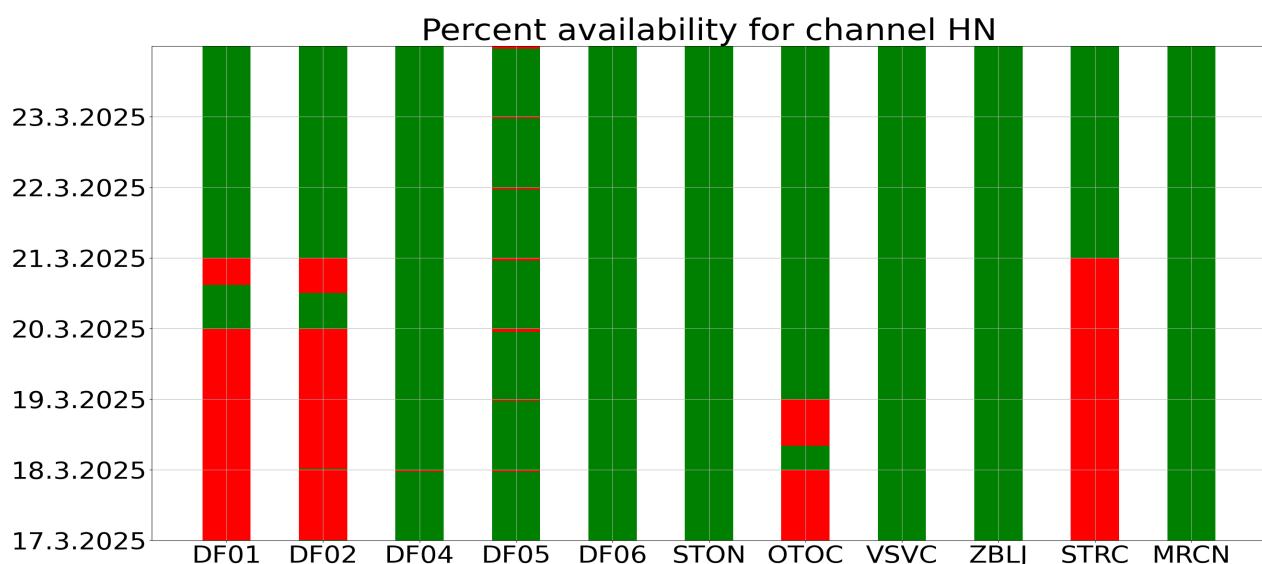
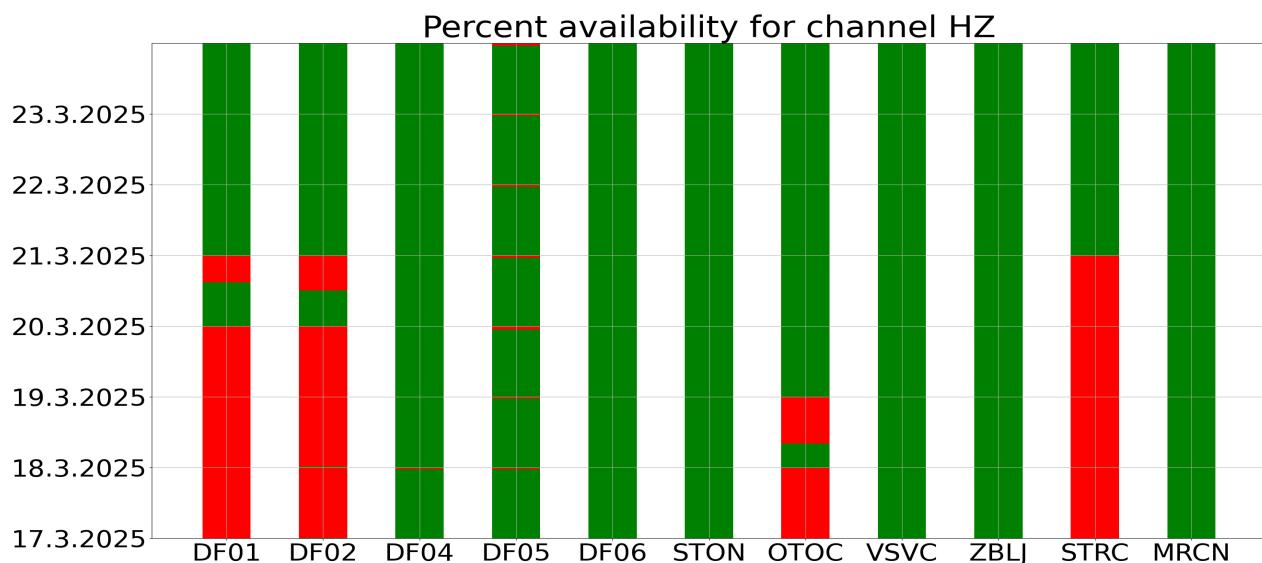


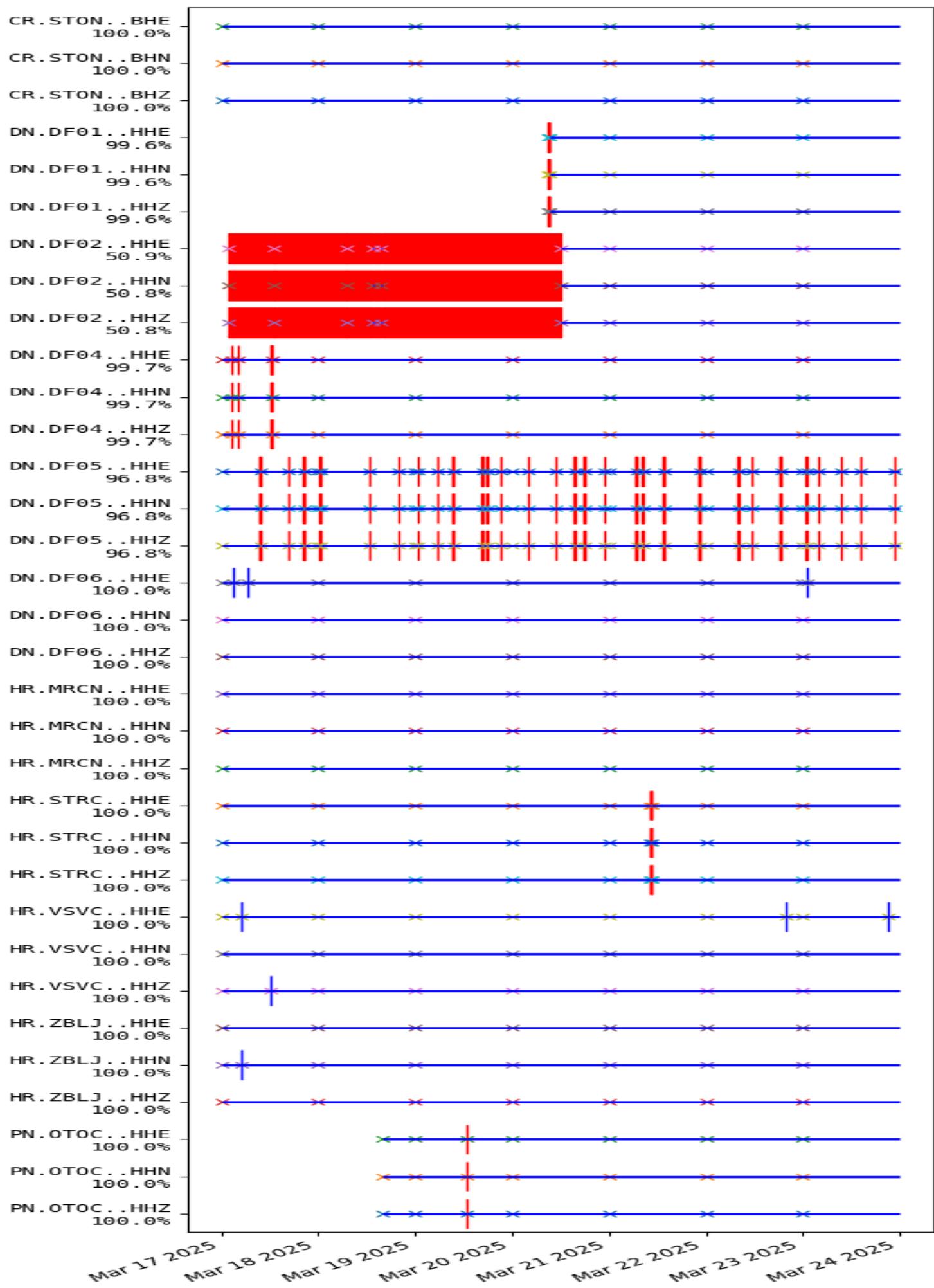
WEEKLY REPORT

DATE: 17.3.2025 - 23.3.2025

Weekly stations data availability - ISPAQ

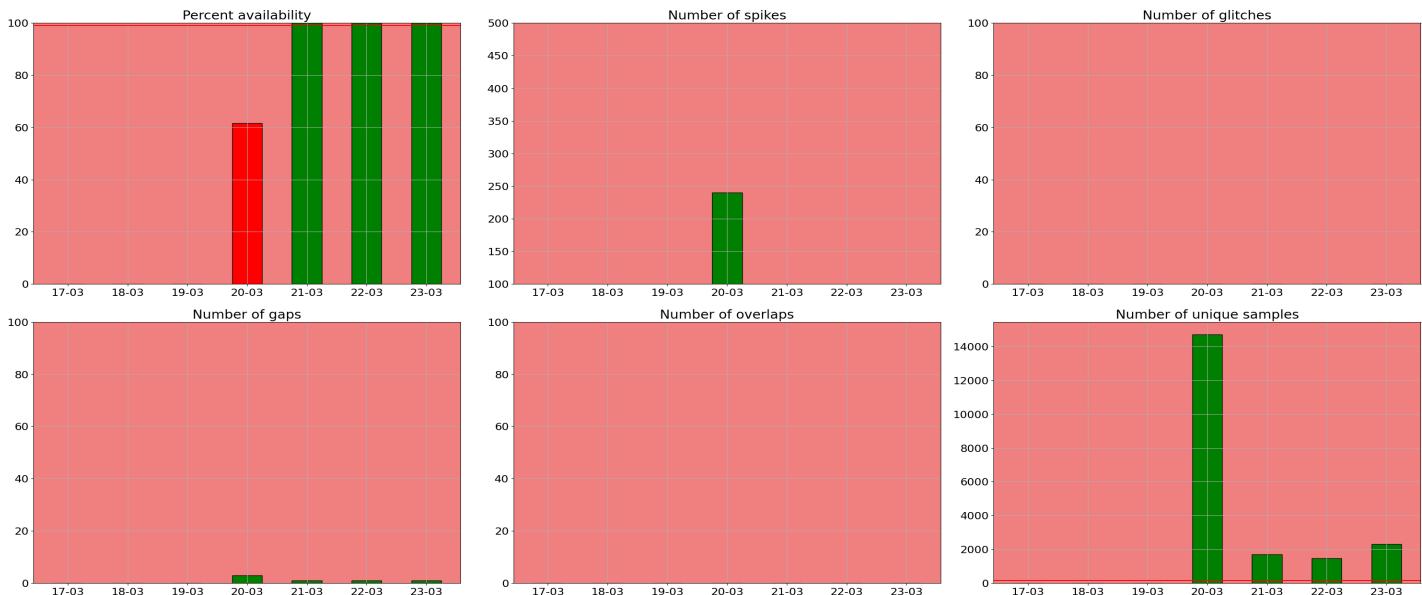


Weekly stations data availability - OBSPY

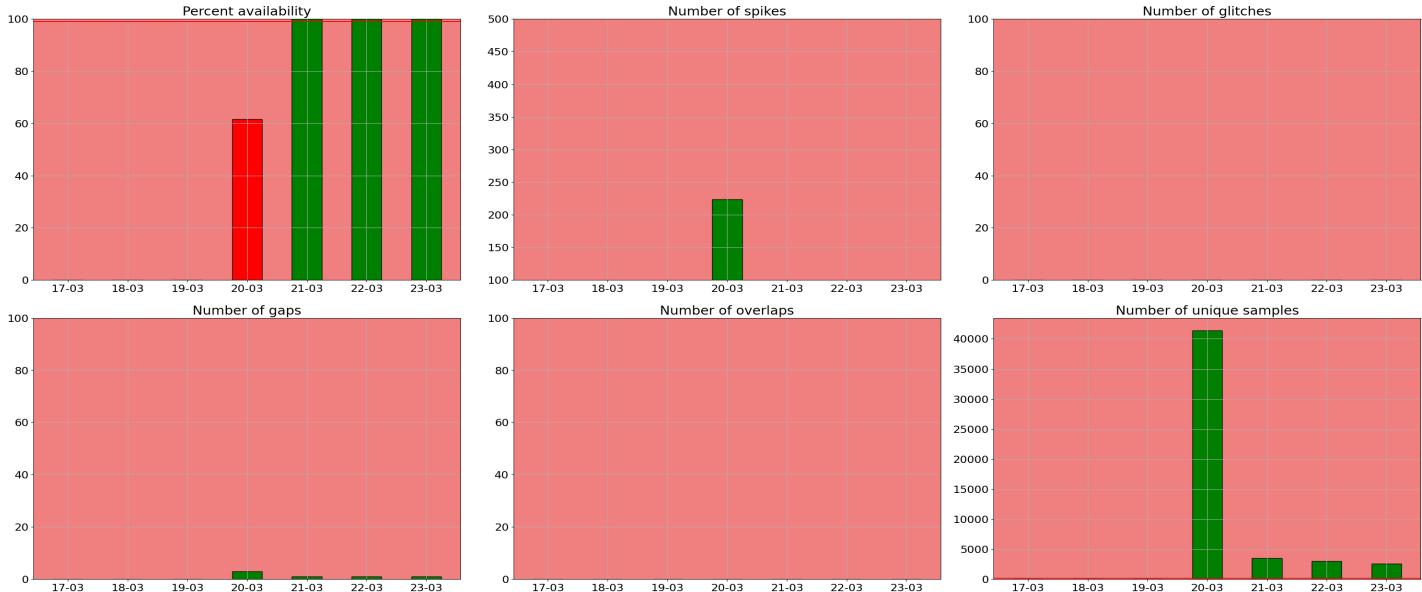


DF01 - Ljubinje

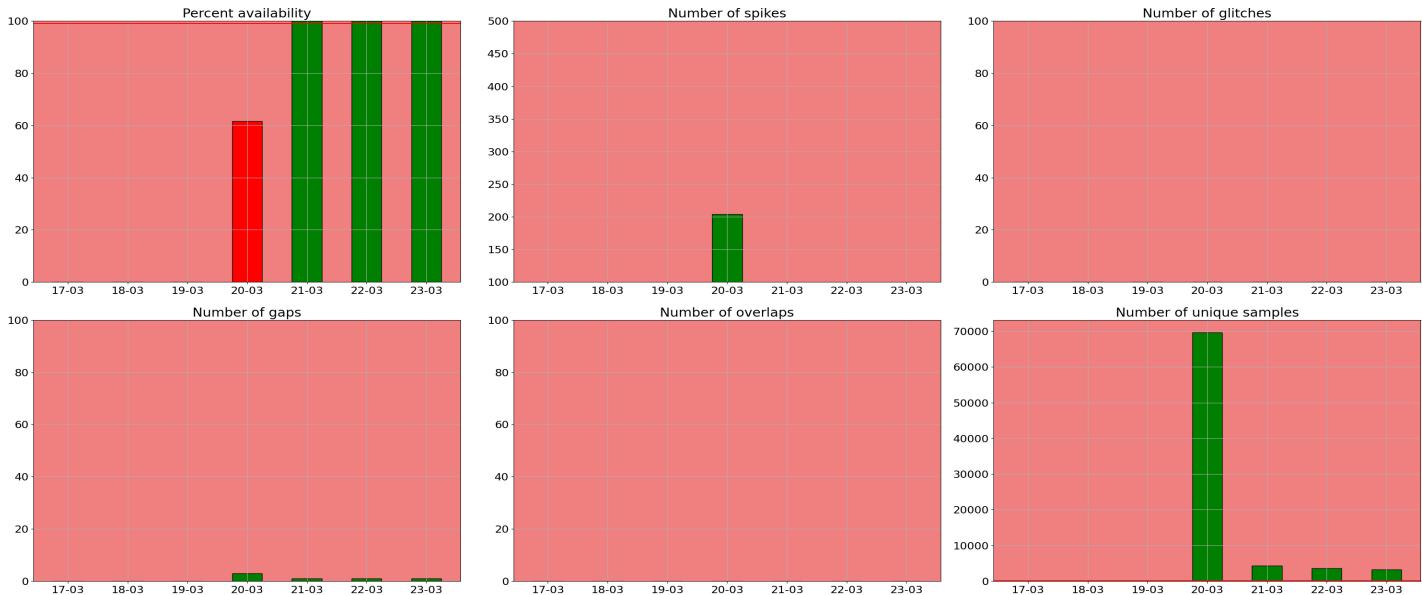
ISPAQ QC for HZ



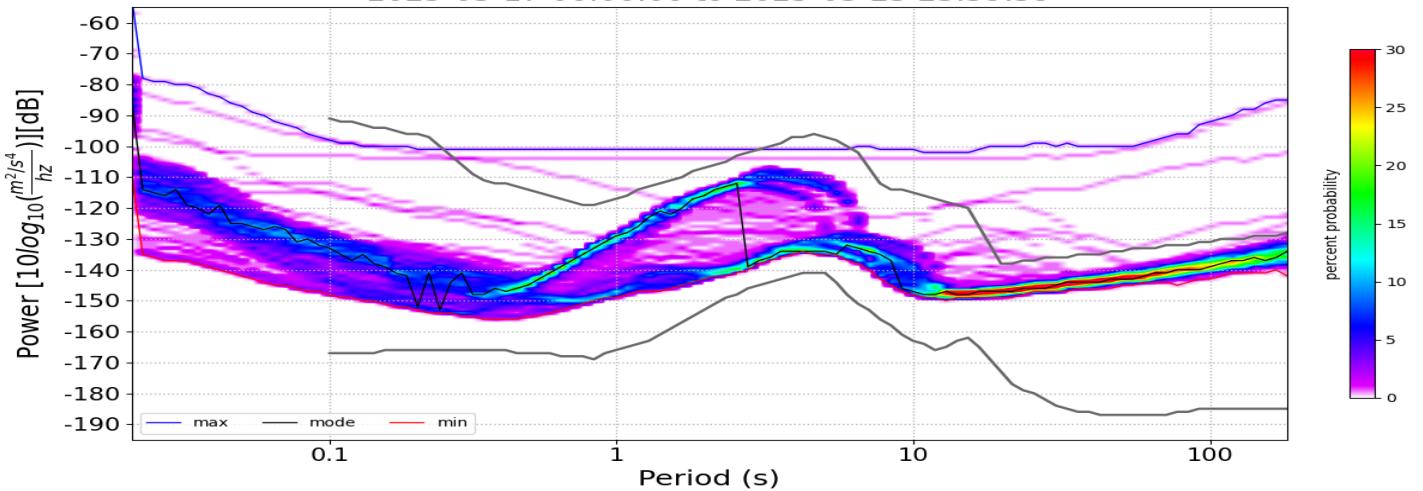
ISPAQ QC for HN



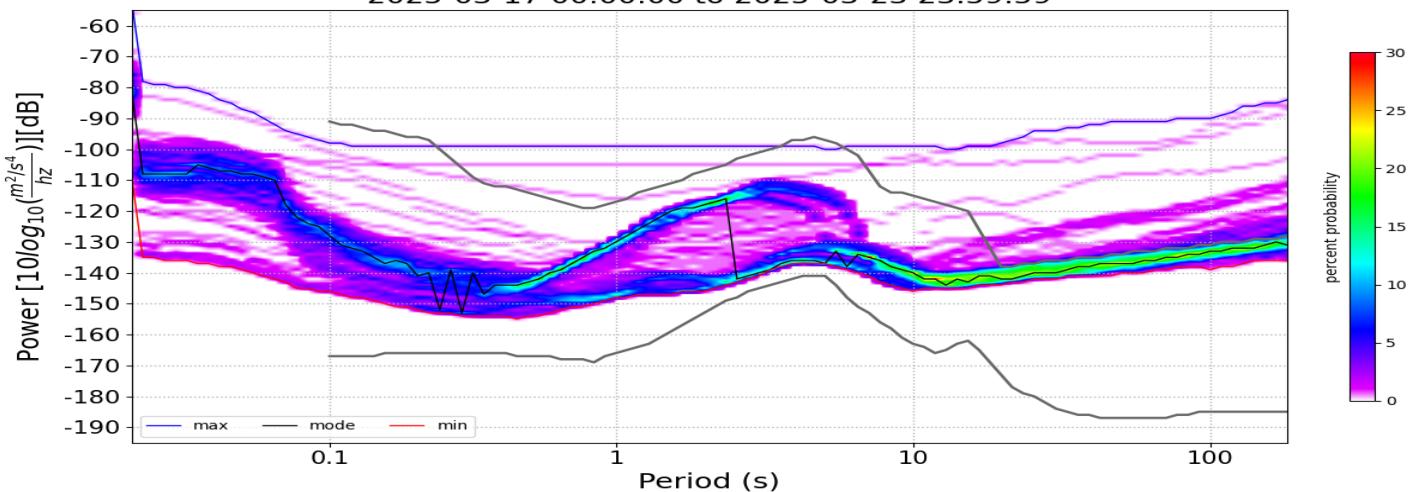
ISPAQ QC for HE



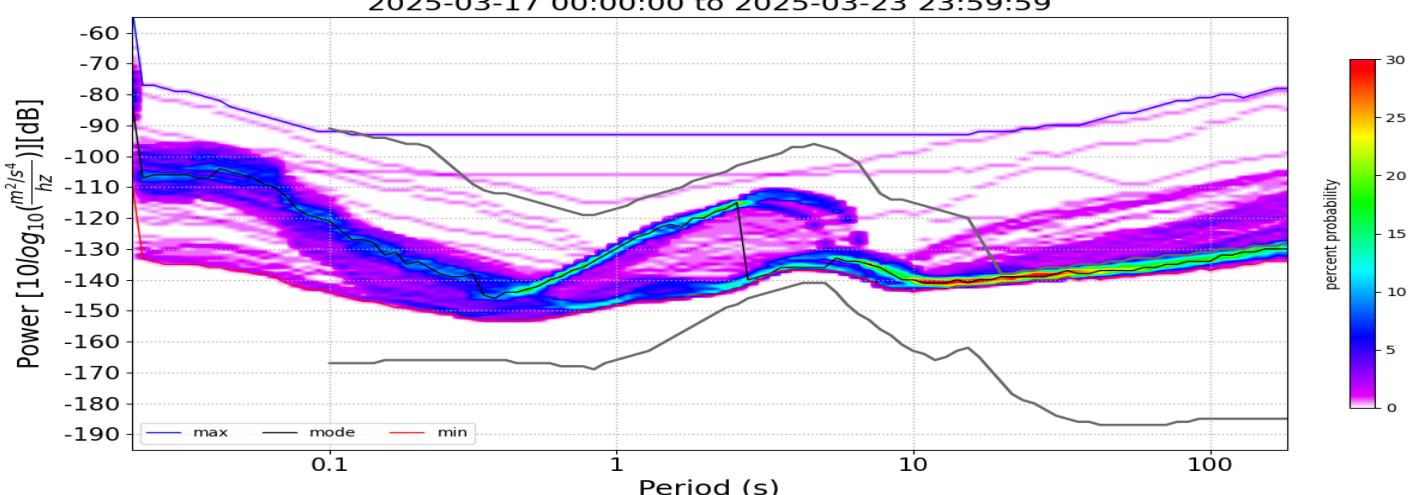
DN.DF01..HHZ.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



DN.DF01..HHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59

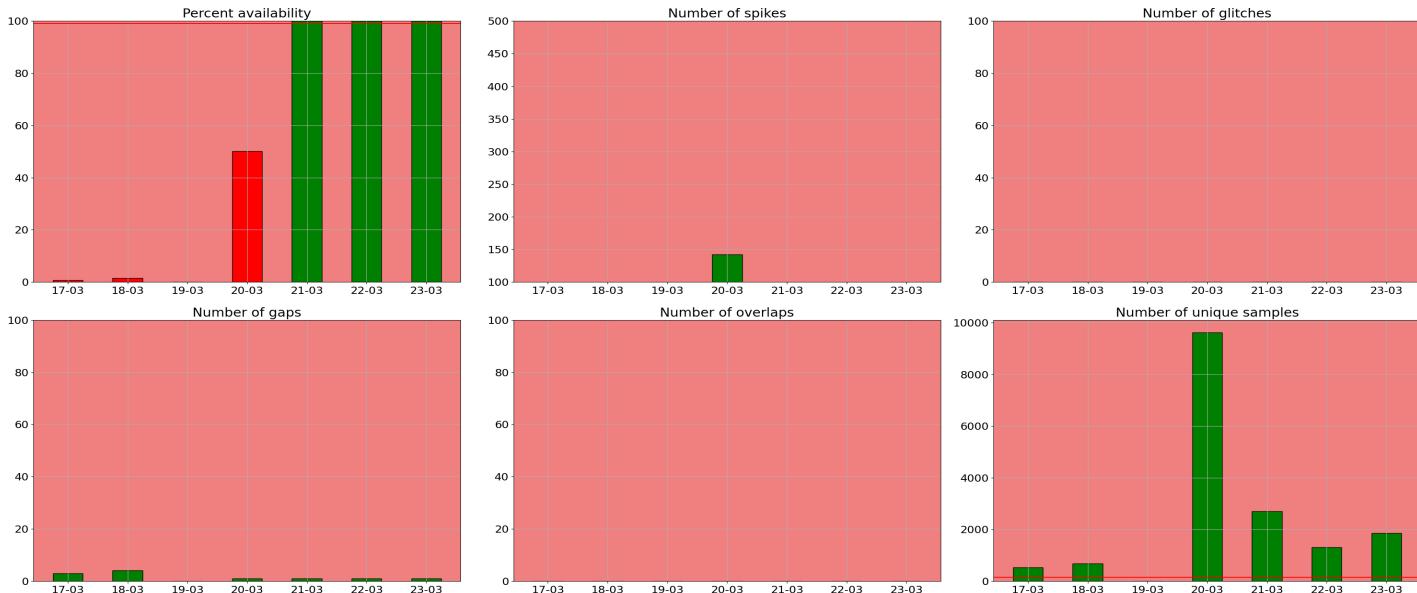


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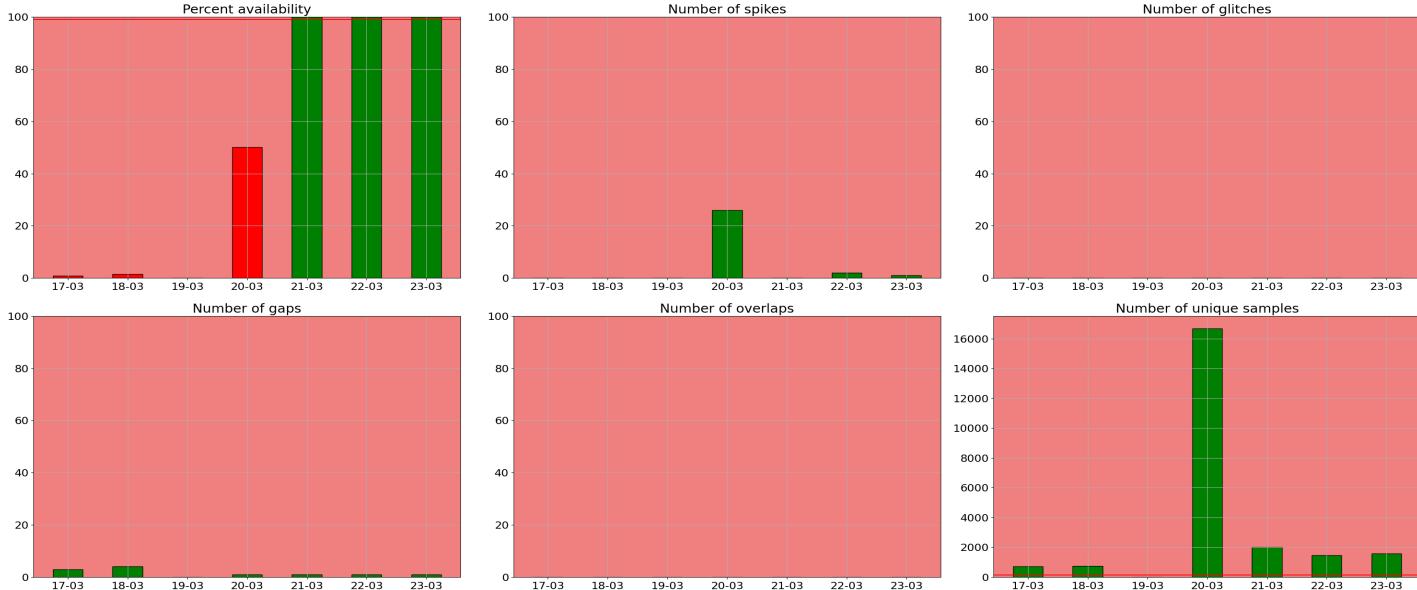


DF02 - Bileca

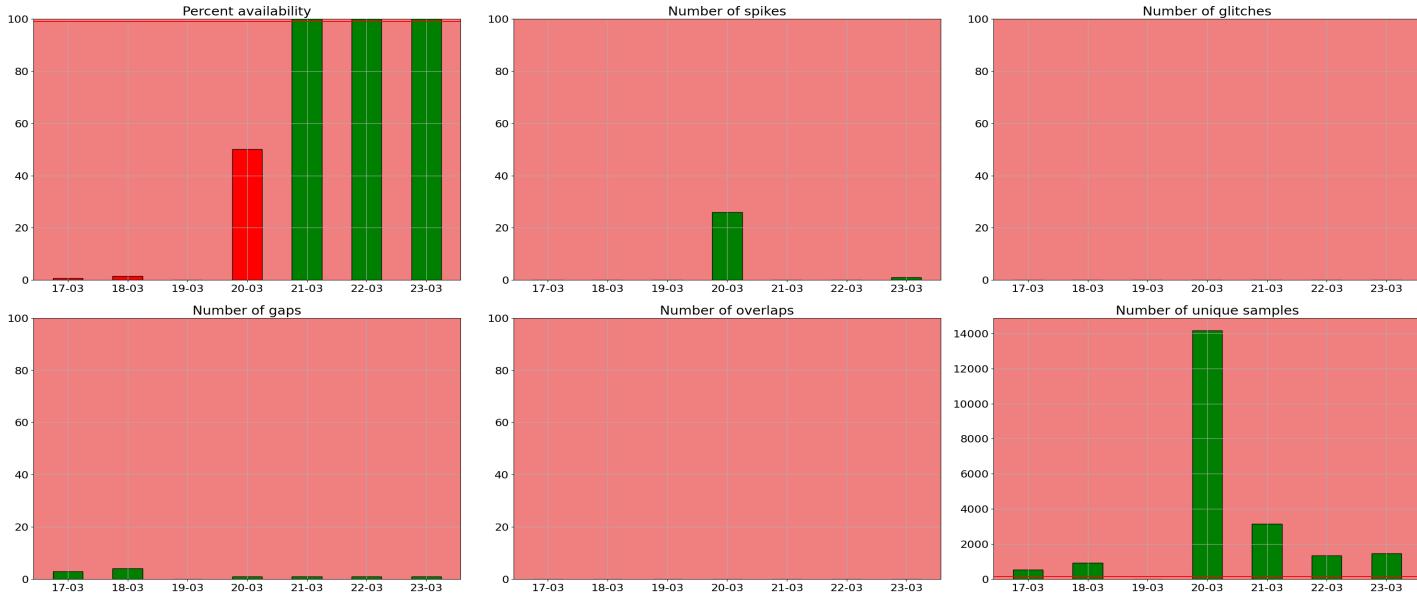
ISPAQ QC for HZ



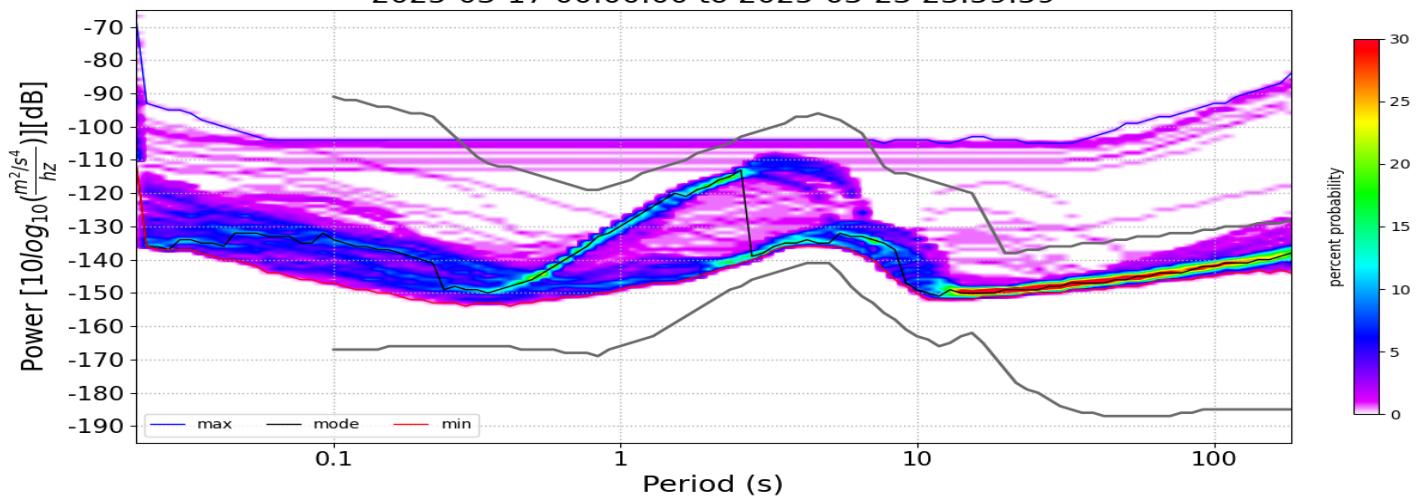
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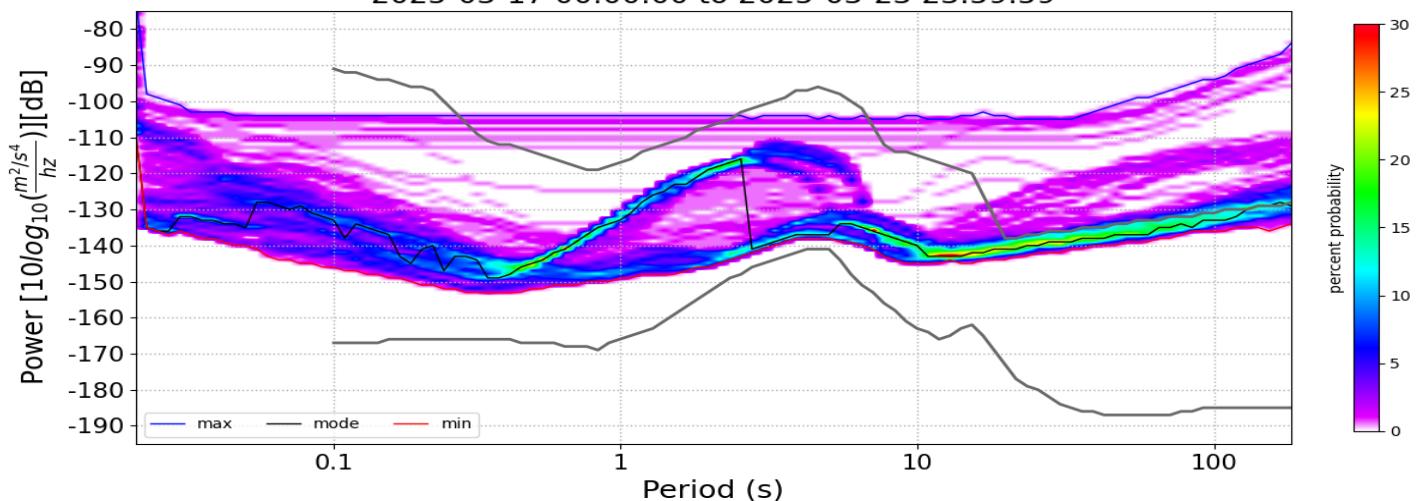
ISPAQ QC for HE



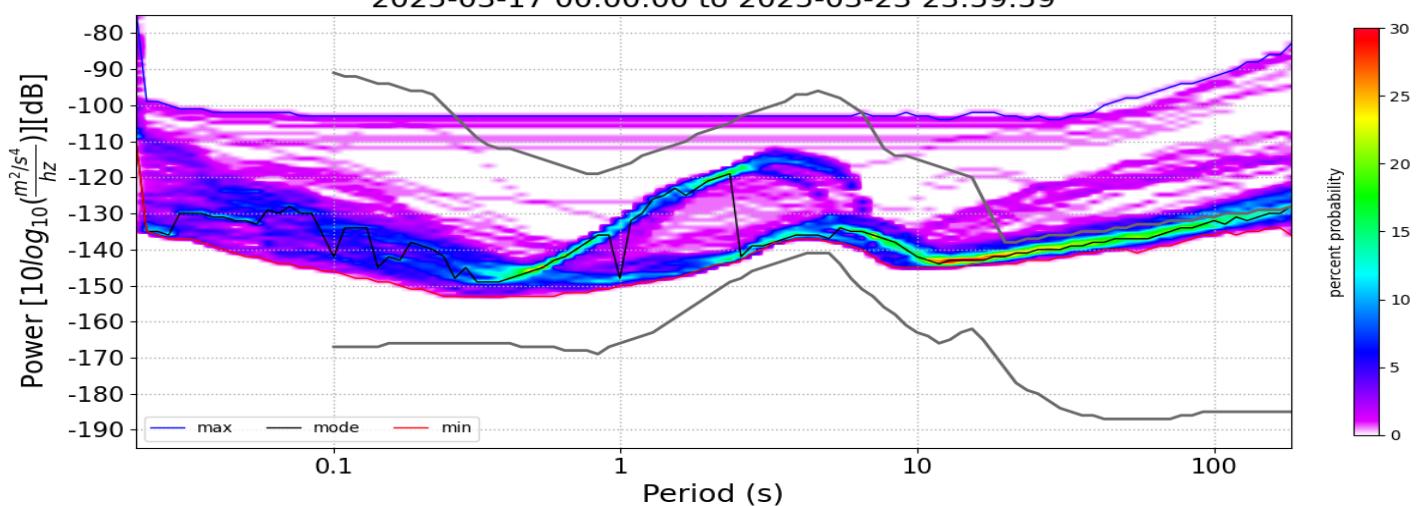
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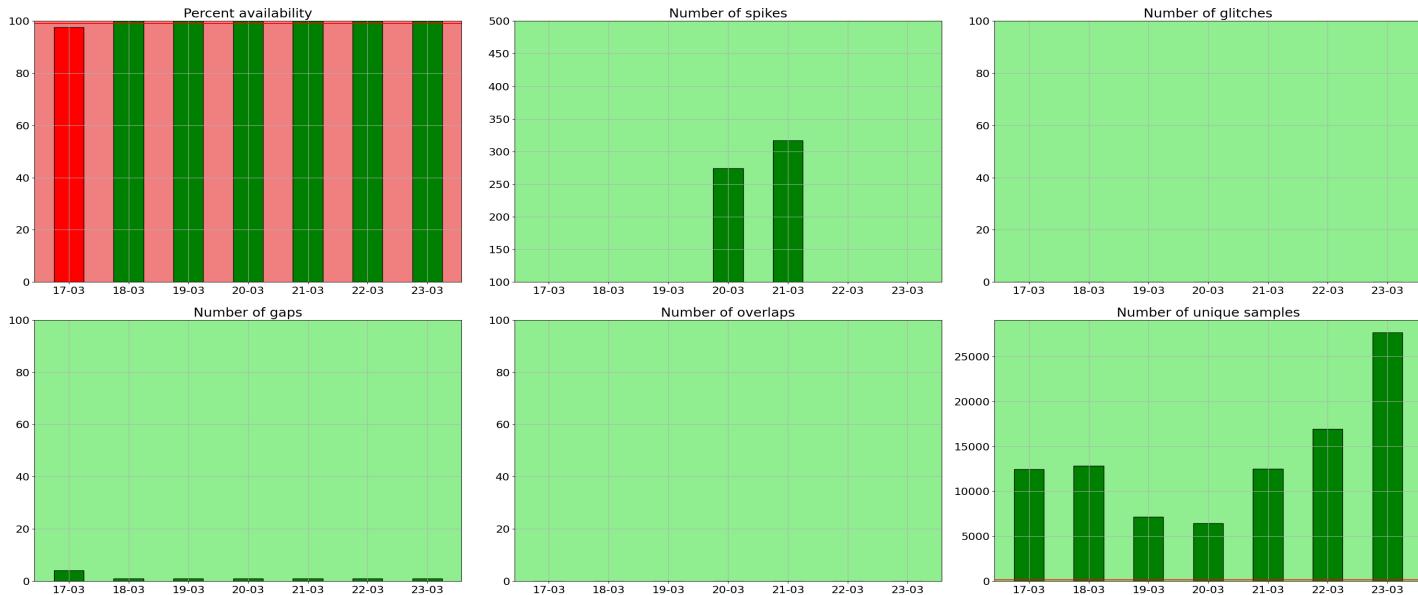


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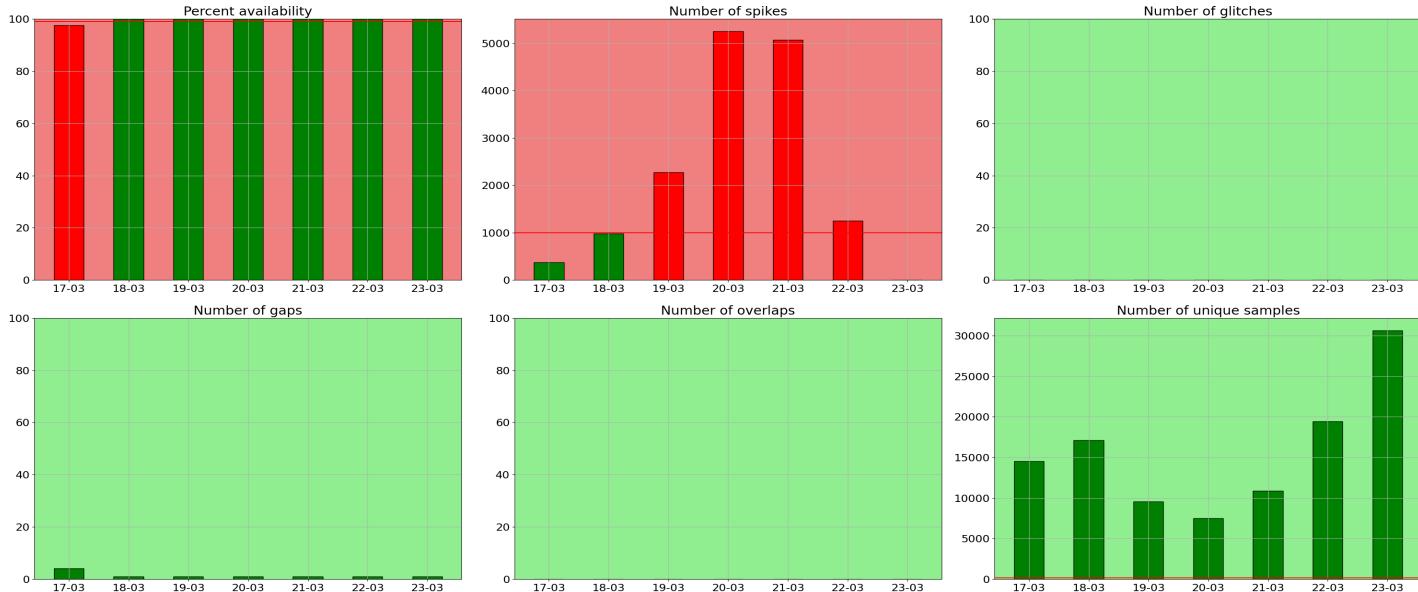


DF04 - Radovcici

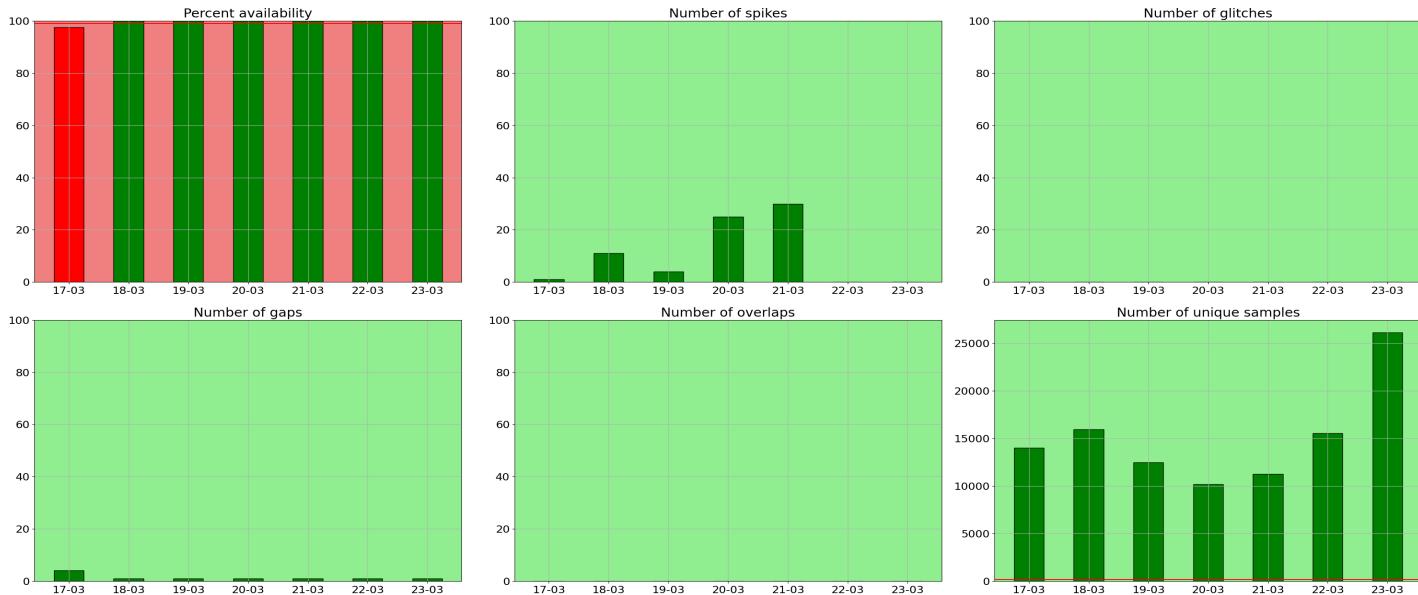
ISPAQ QC for HZ



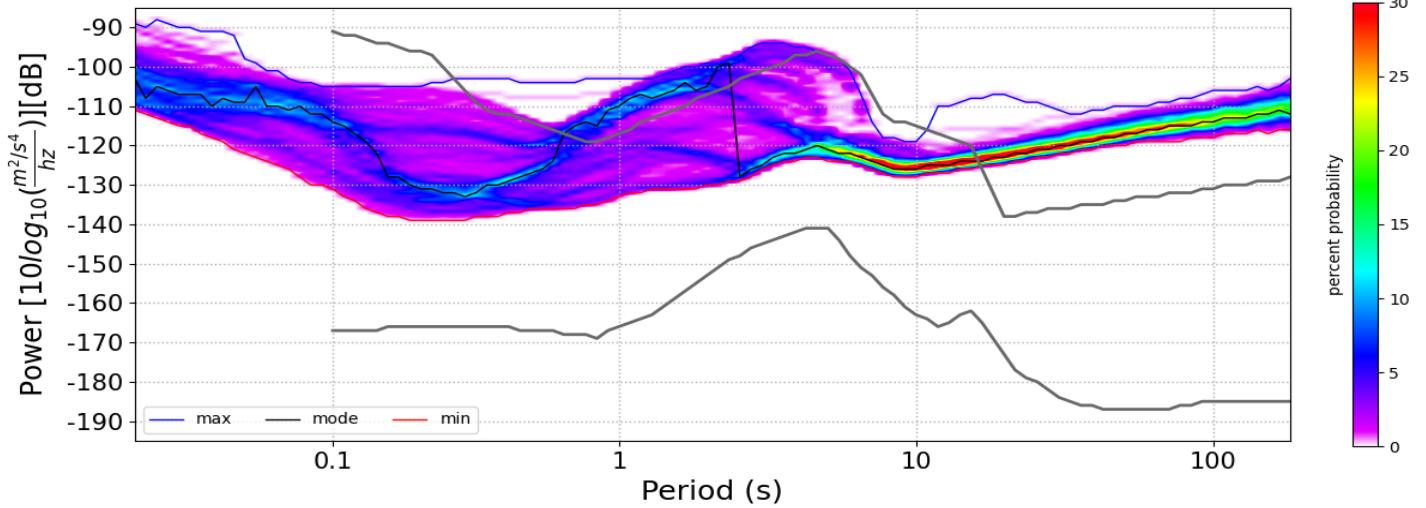
ISPAQ QC for HN



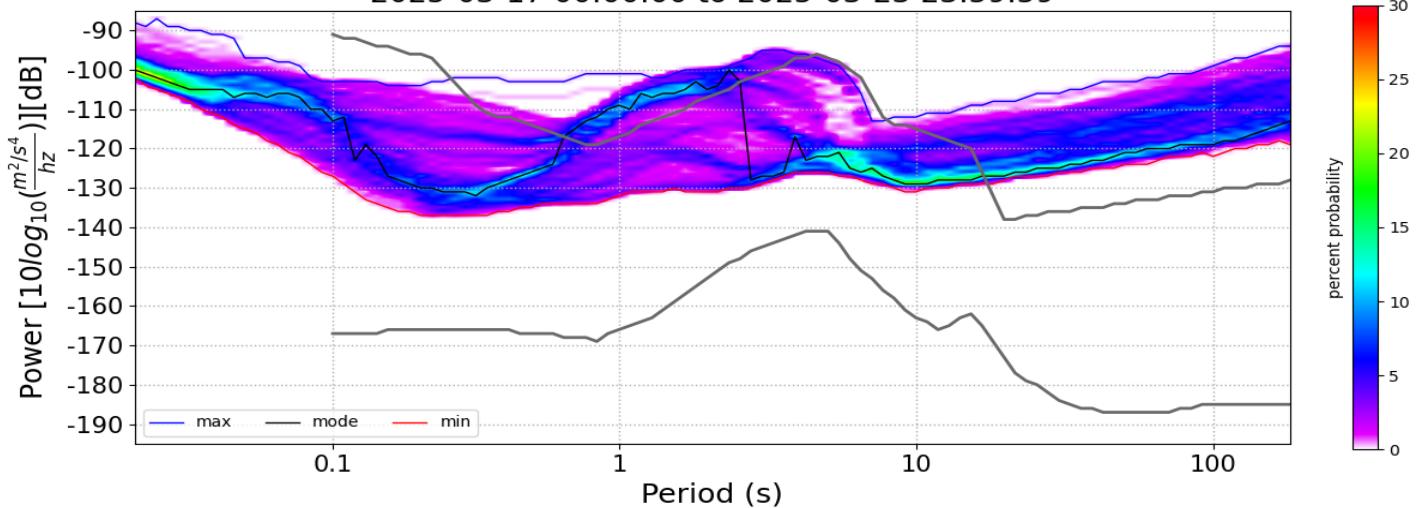
ISPAQ QC for HE



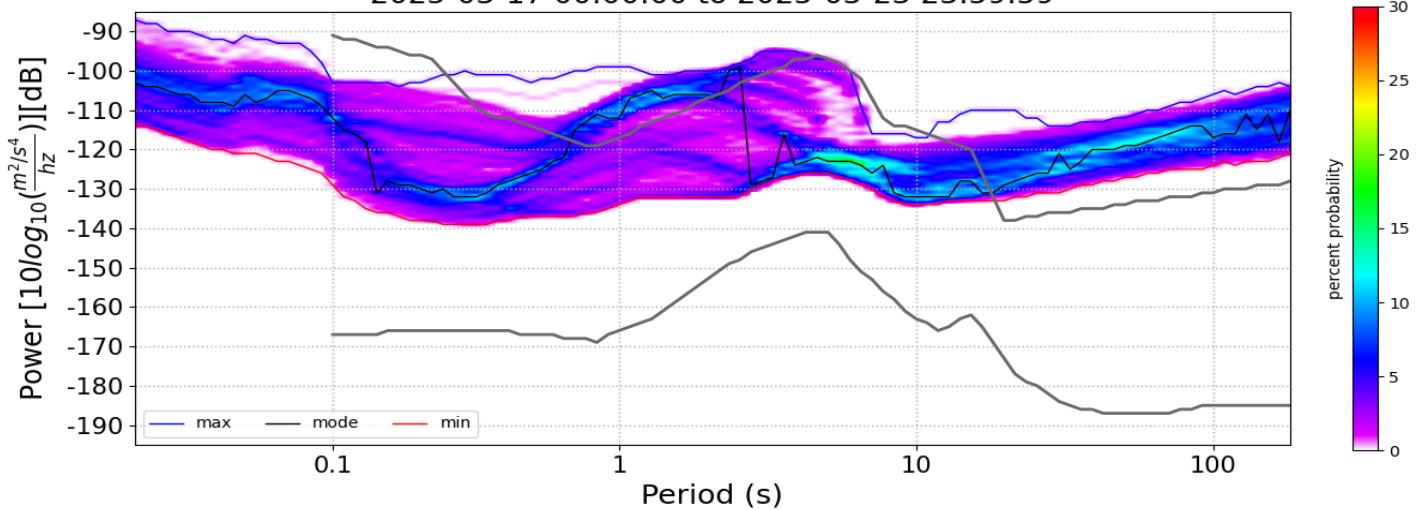
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DN.DF04..HHN.D
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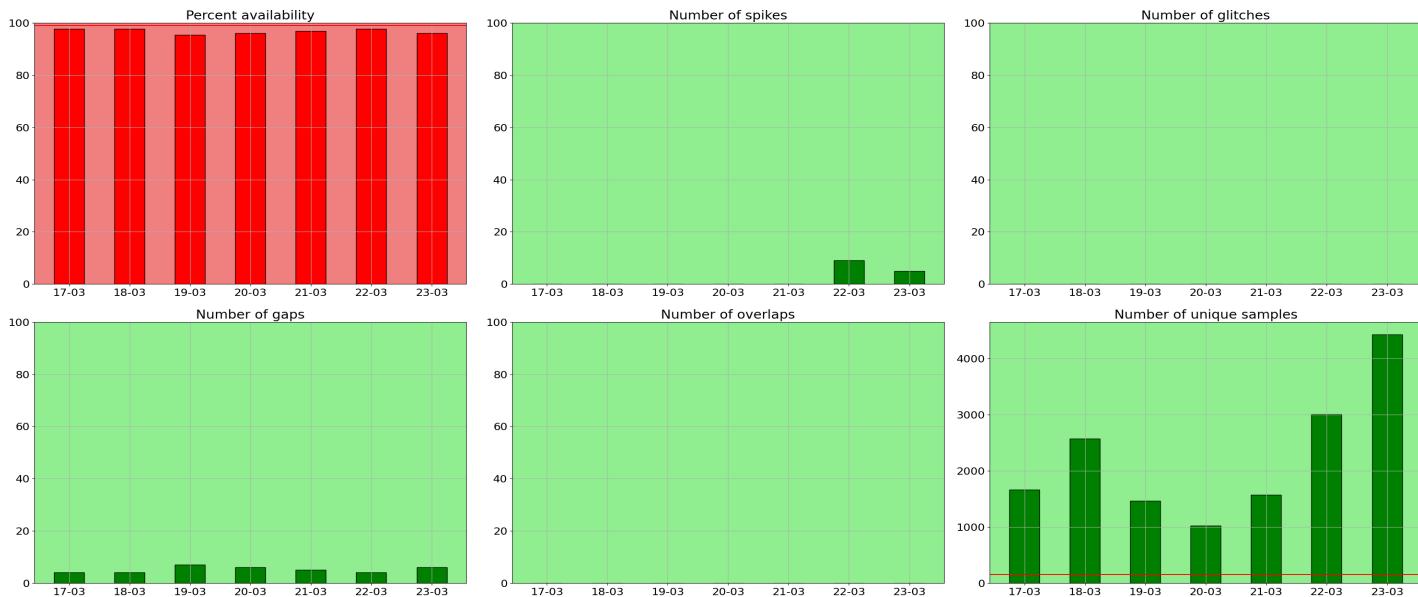


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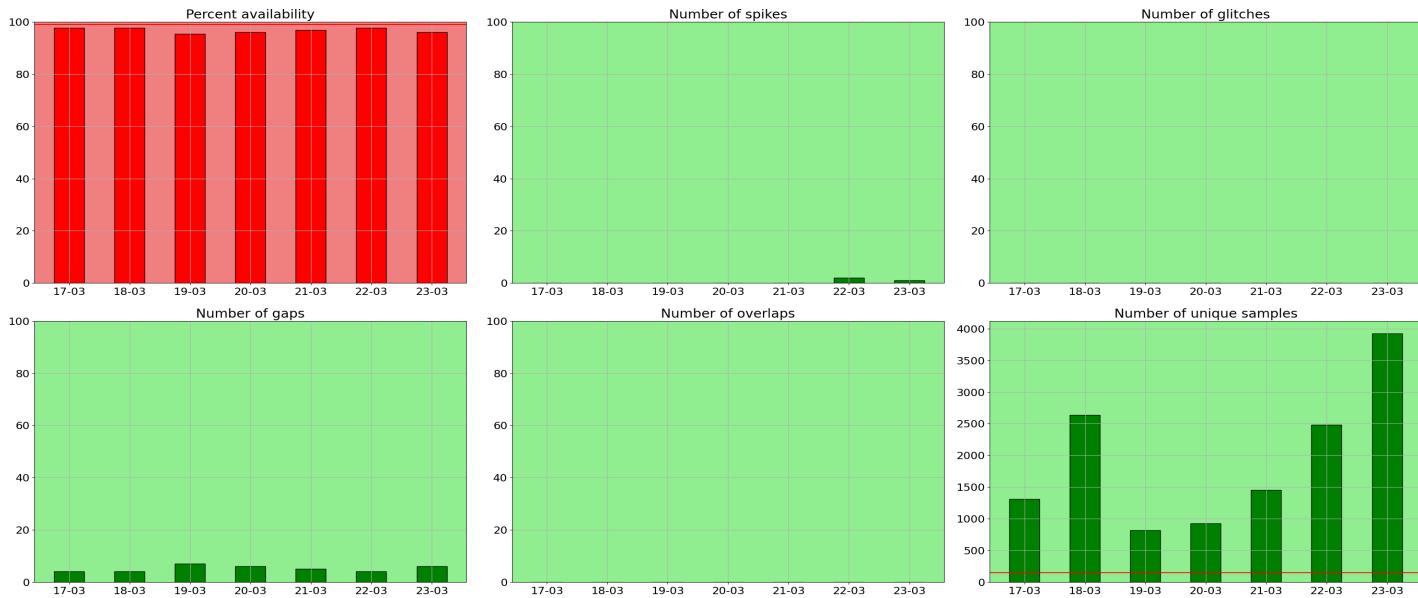


DF05 - Sipanska luka

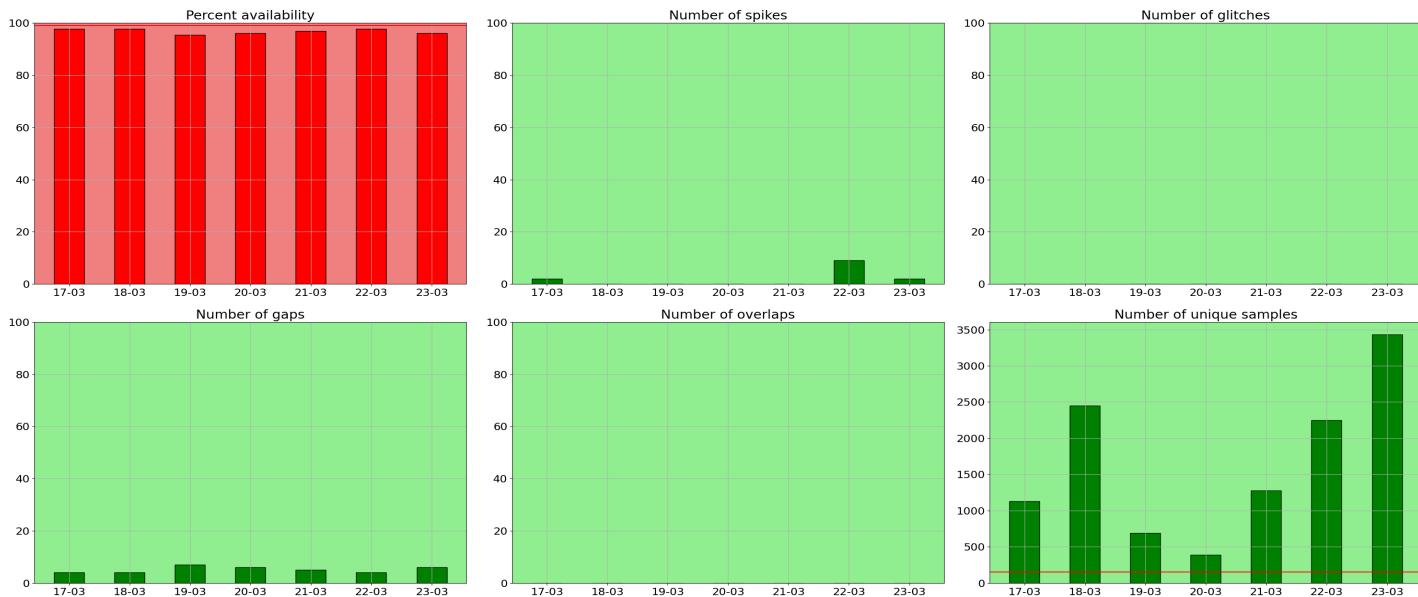
ISPAQ QC for HZ



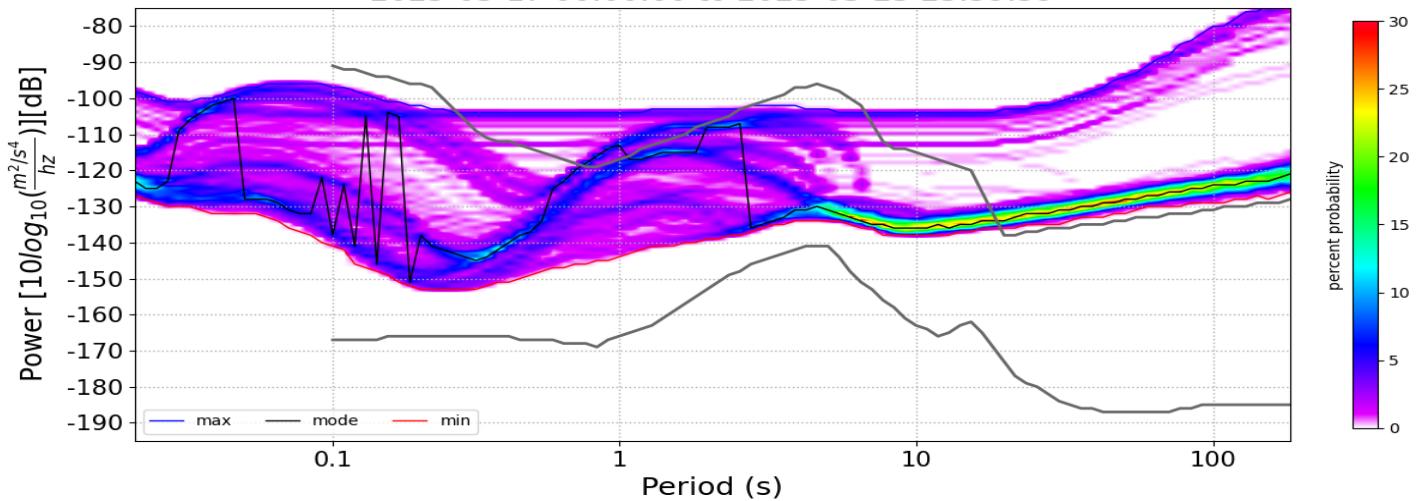
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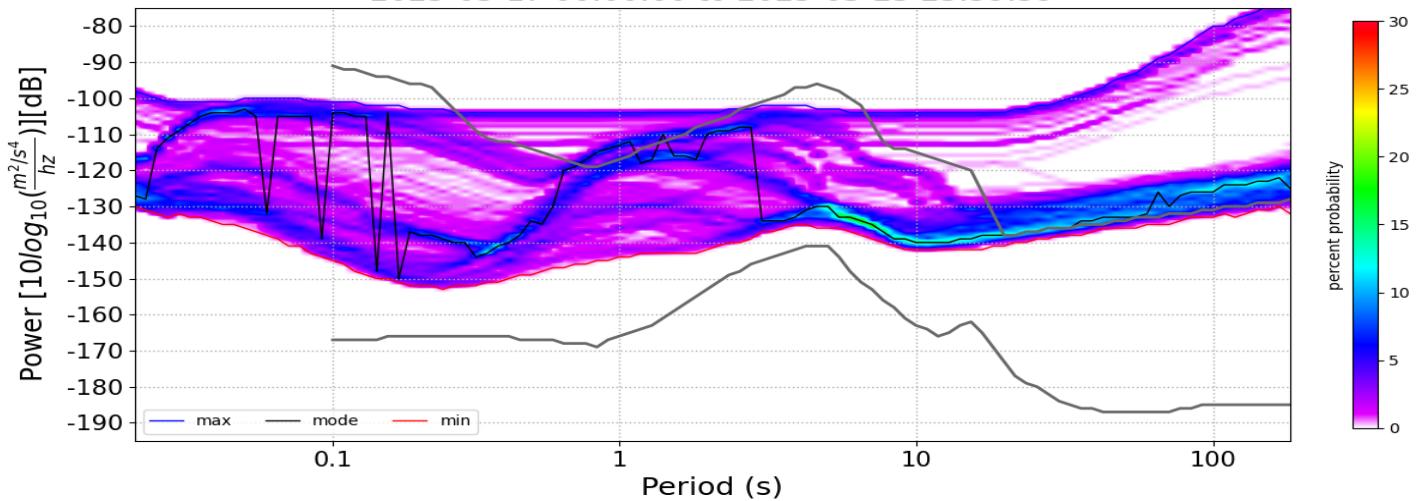
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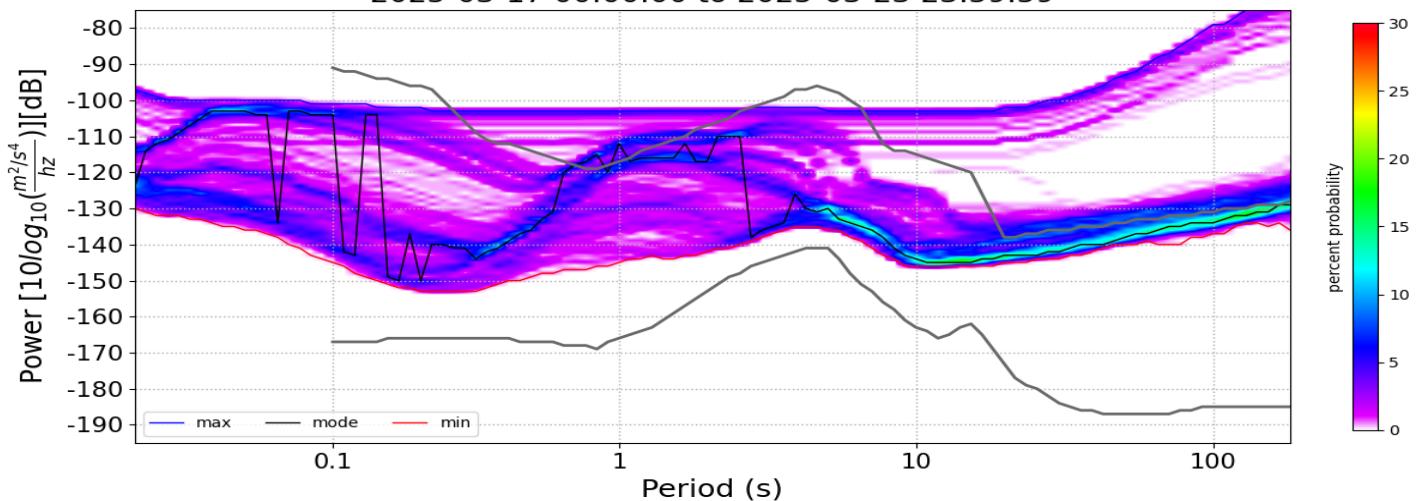
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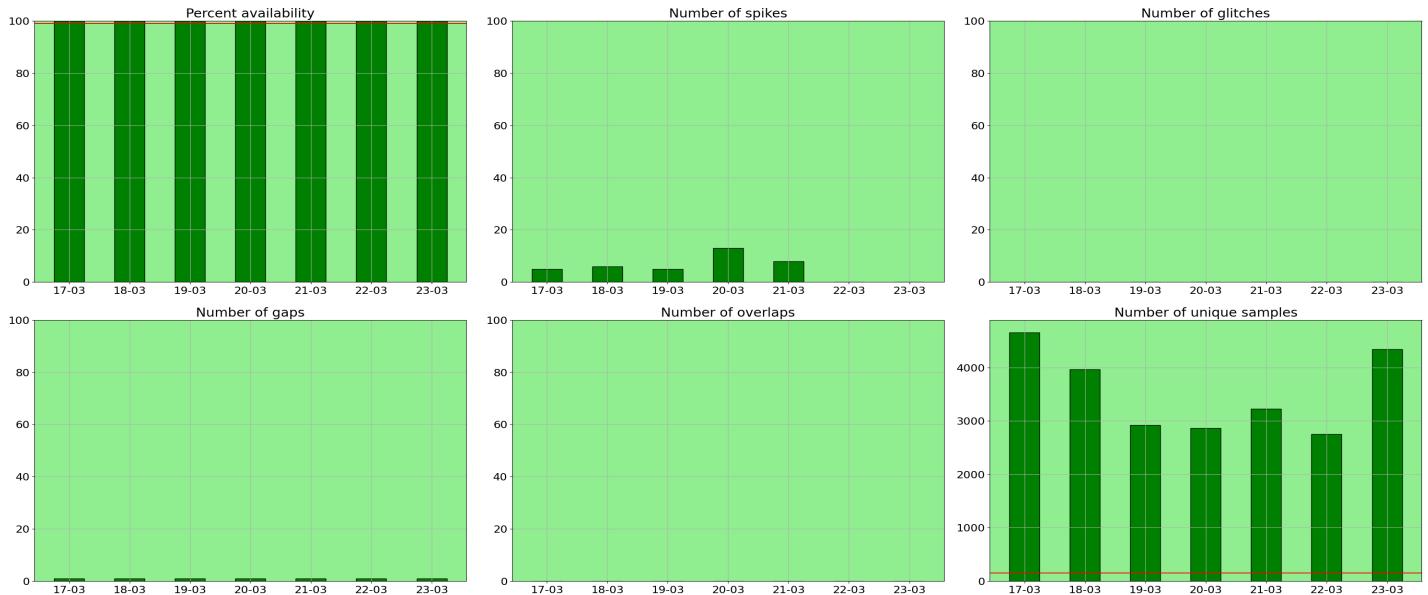


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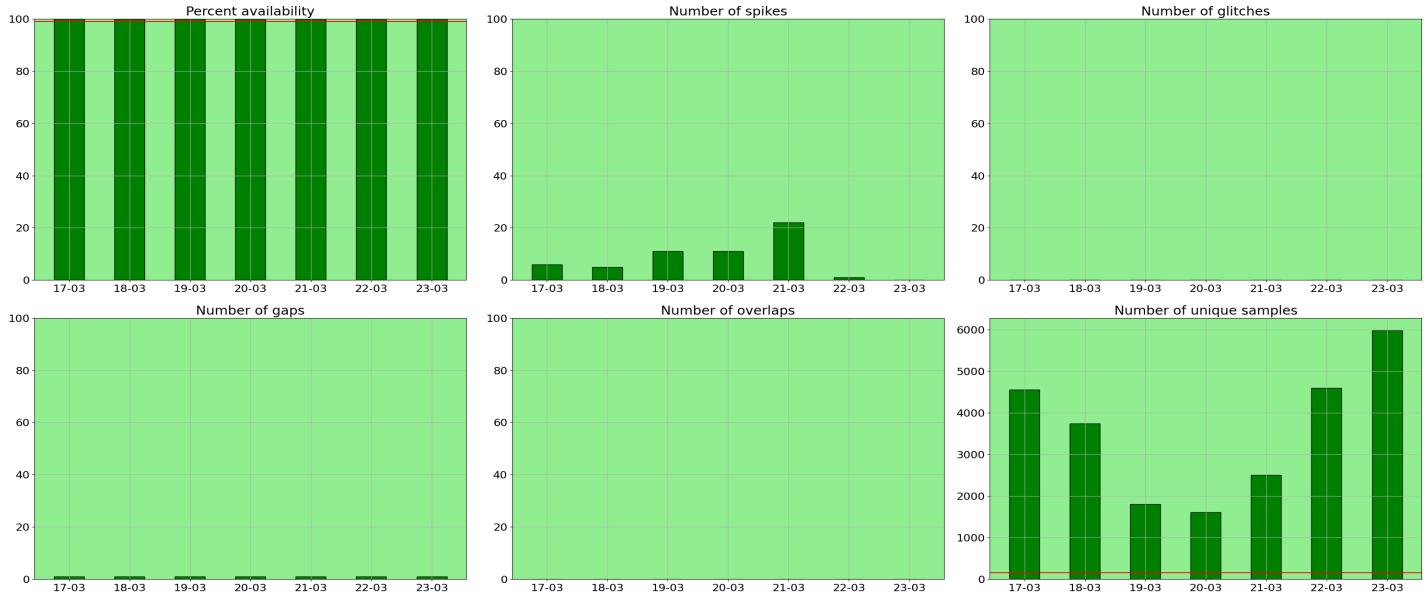


DF06 - Mljet

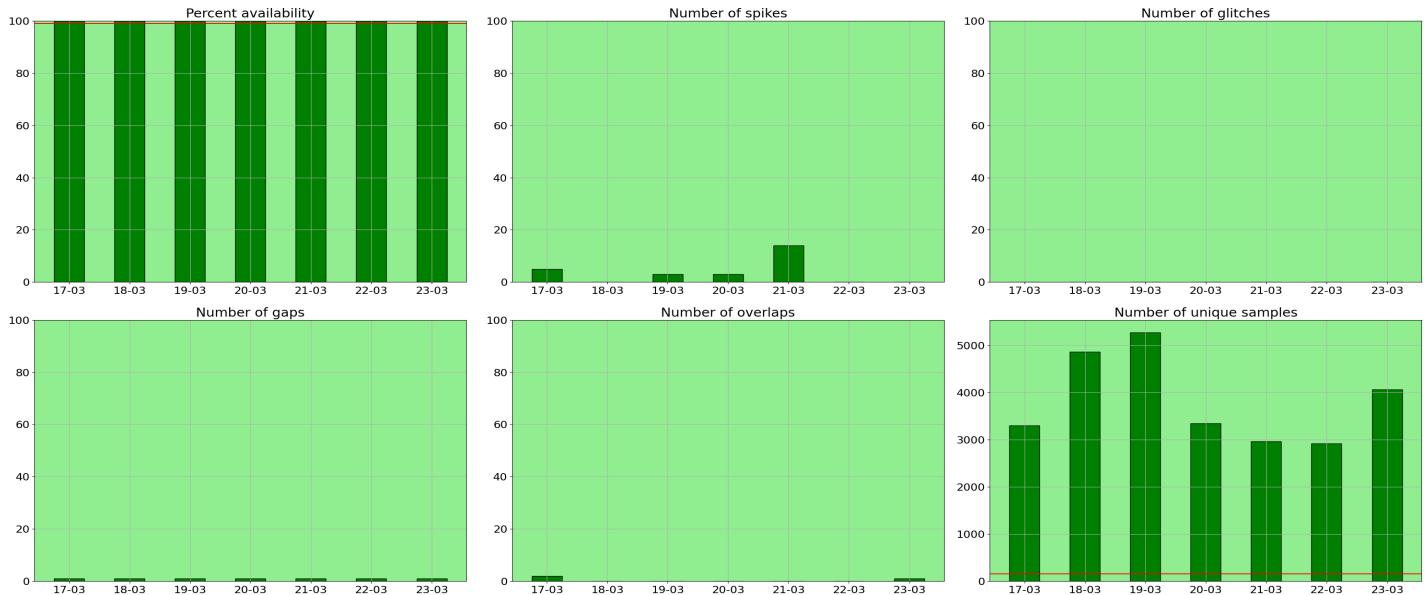
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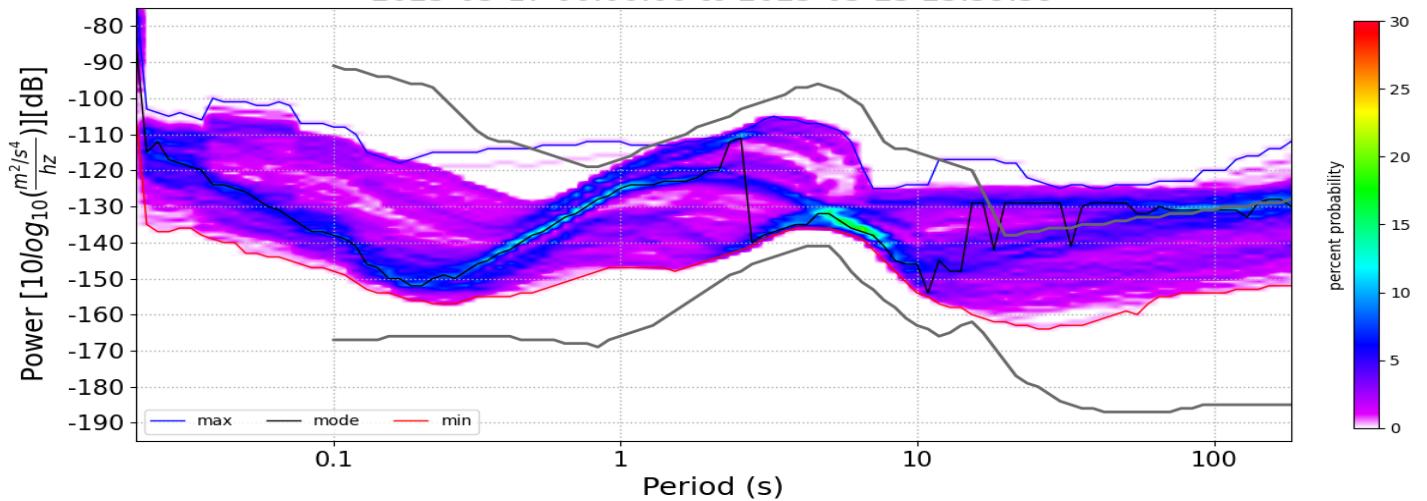
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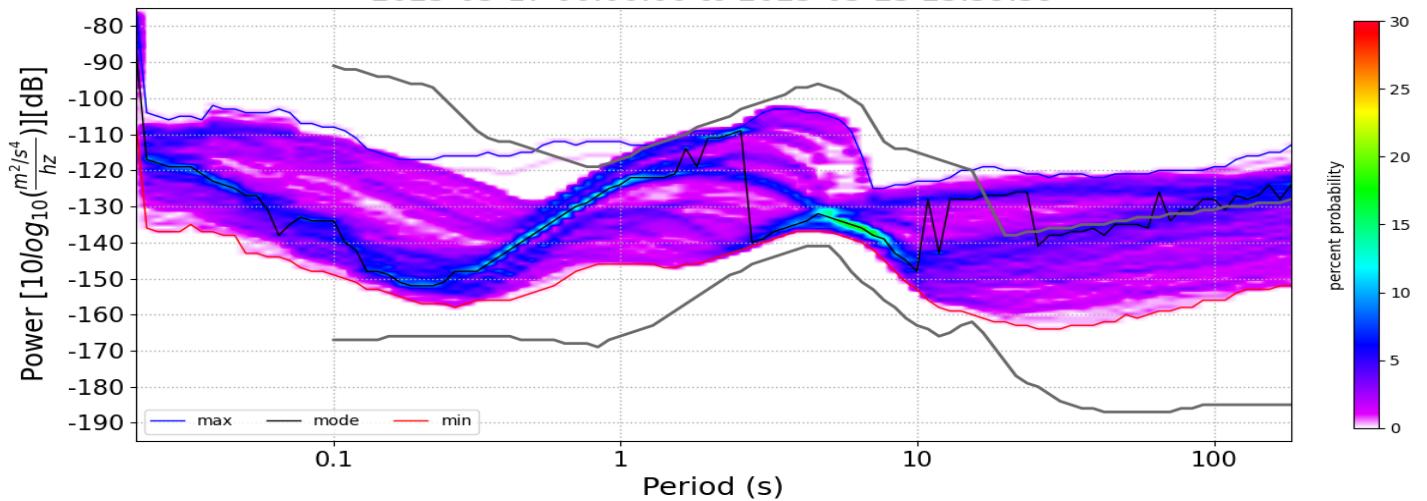
ISPAQ QC for HE



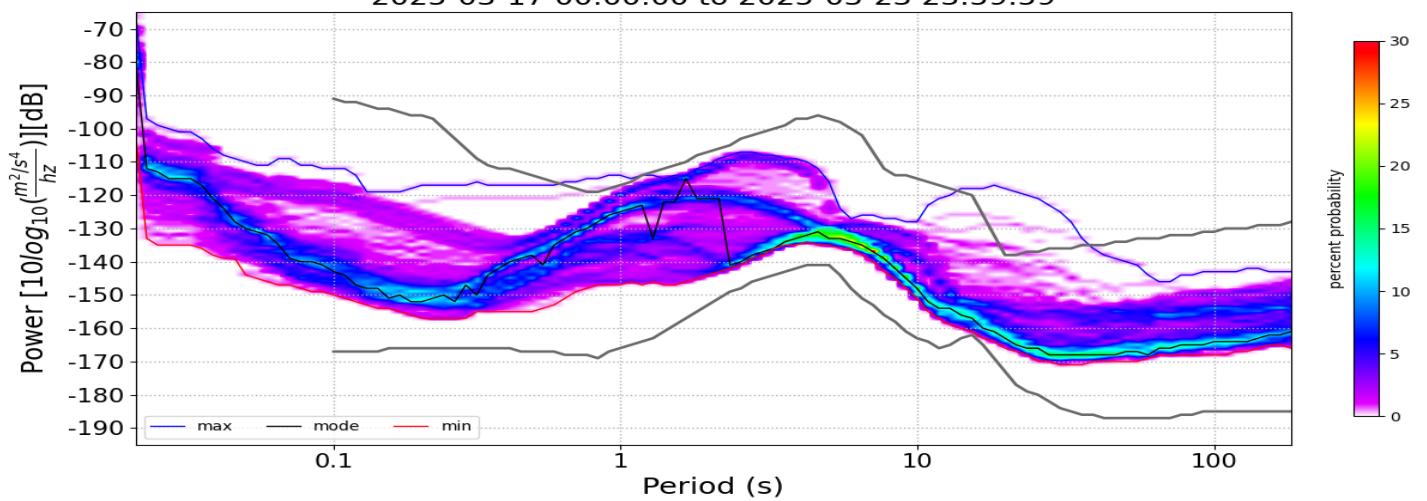
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DN.DF06..HHN.D
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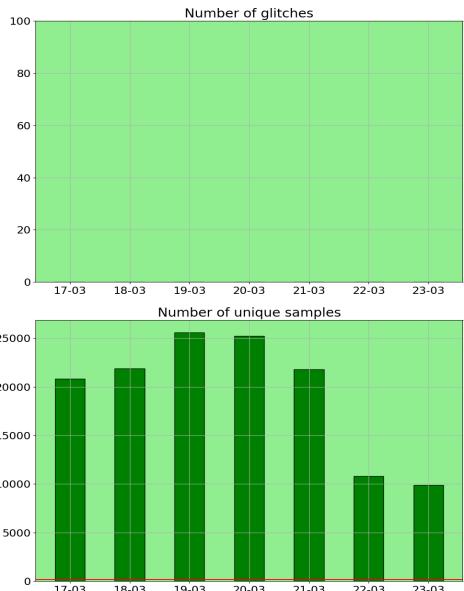
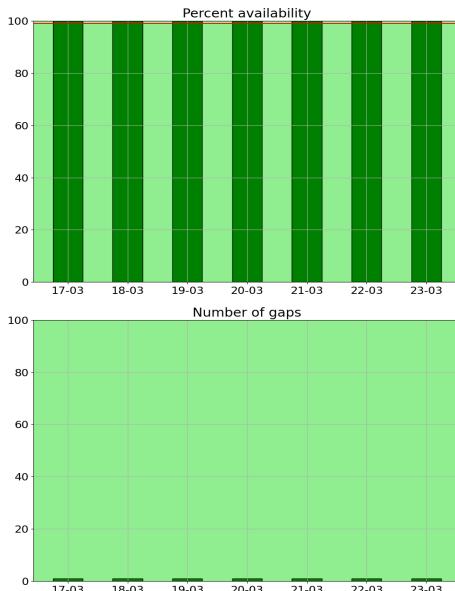


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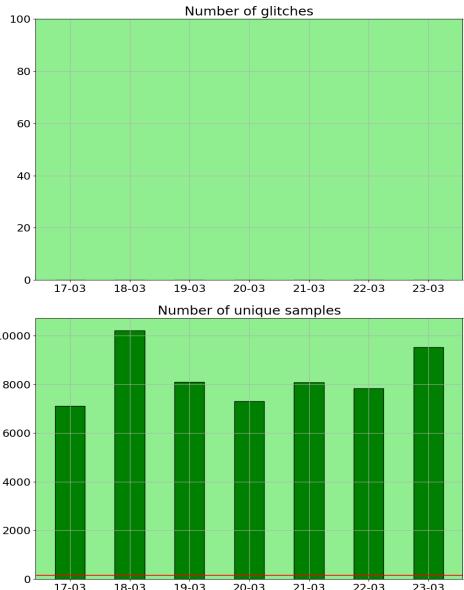
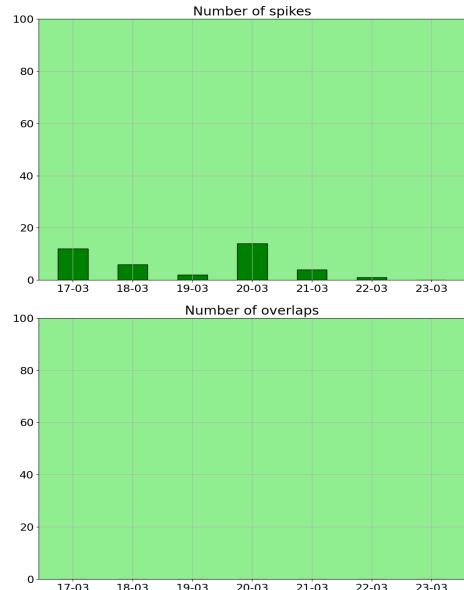


STON - Ston

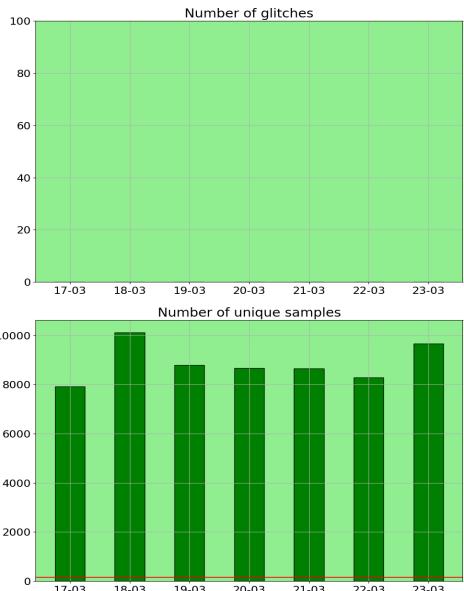
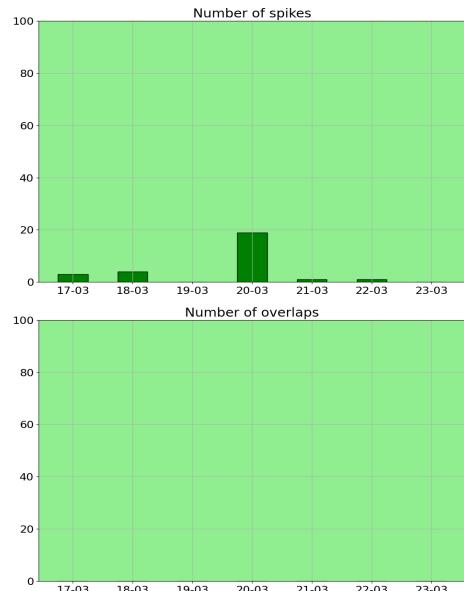
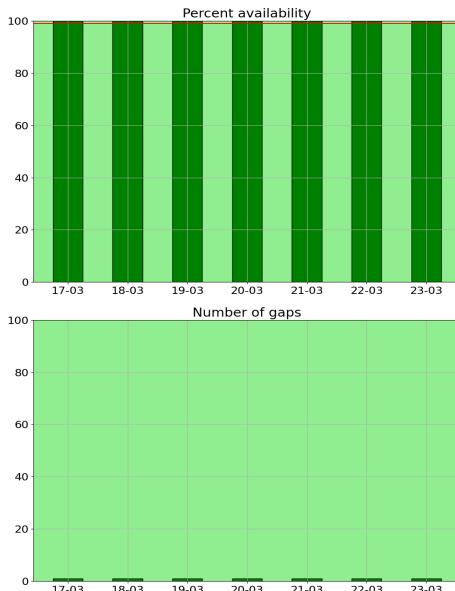
ISPAQ QC for HZ



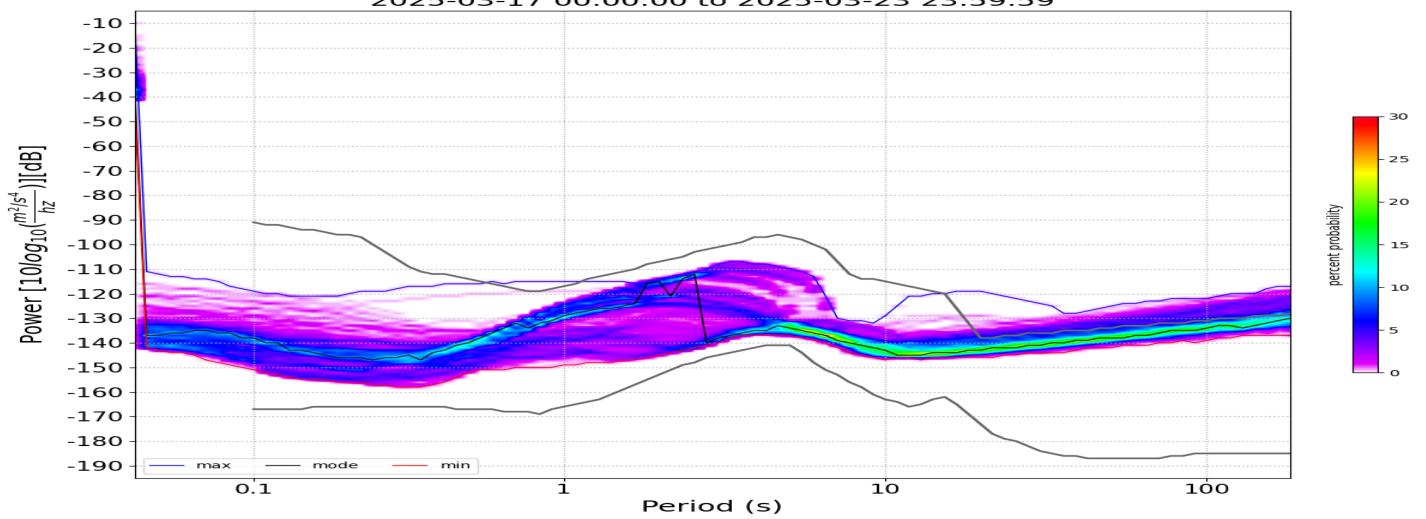
ISPAQ QC for HN



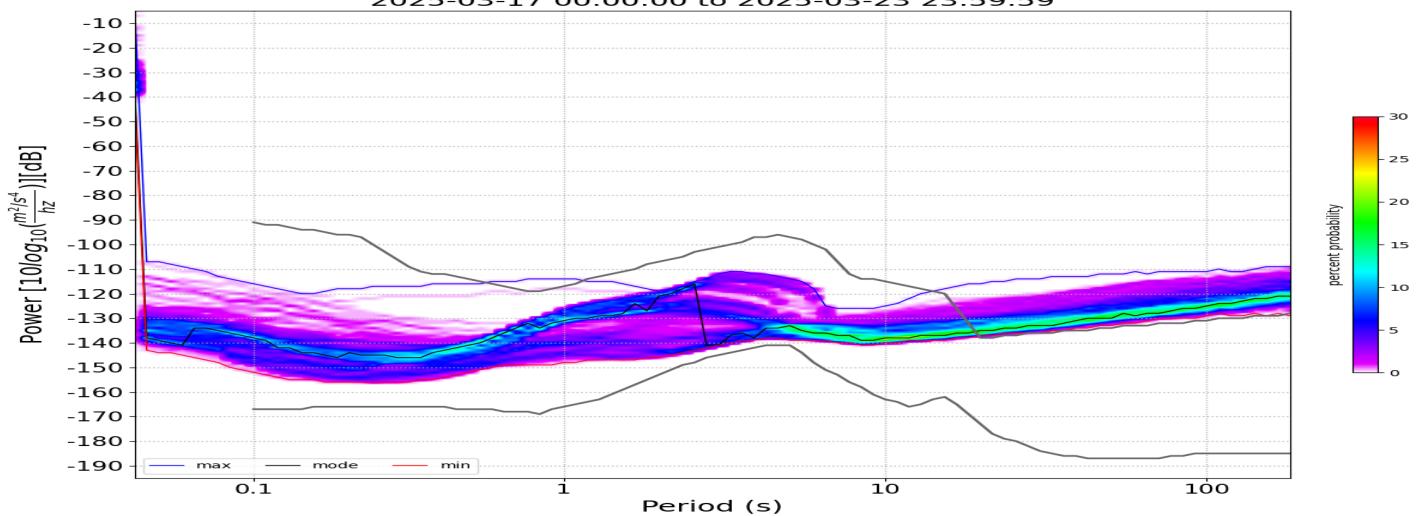
ISPAQ QC for HE



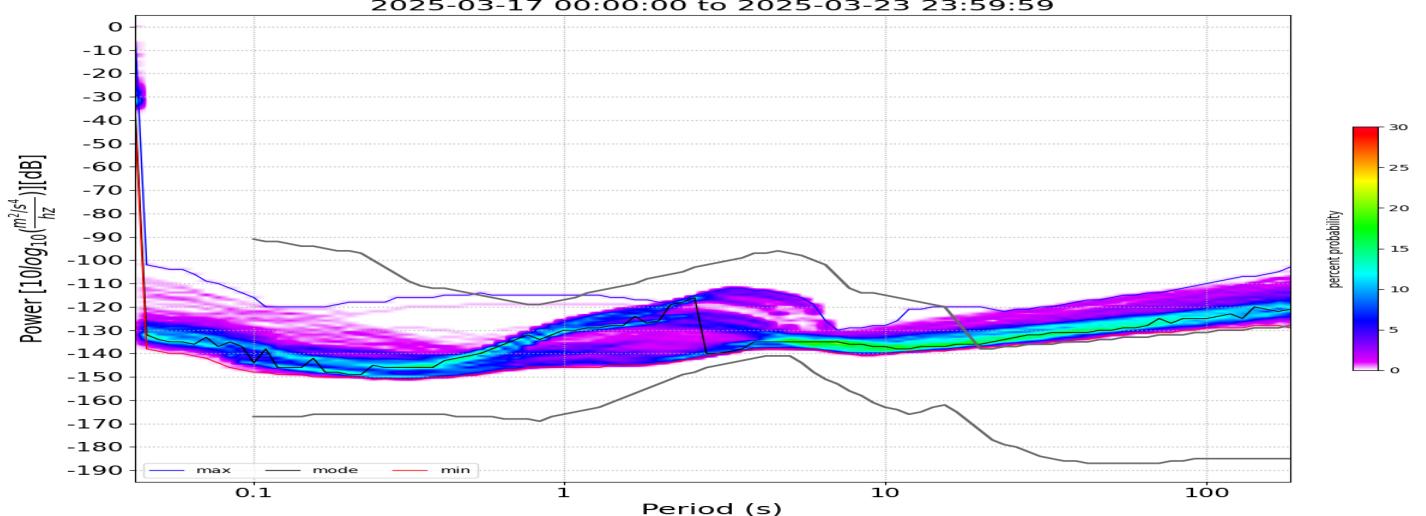
CR.STON..BHZ.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



CR.STON..BHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59

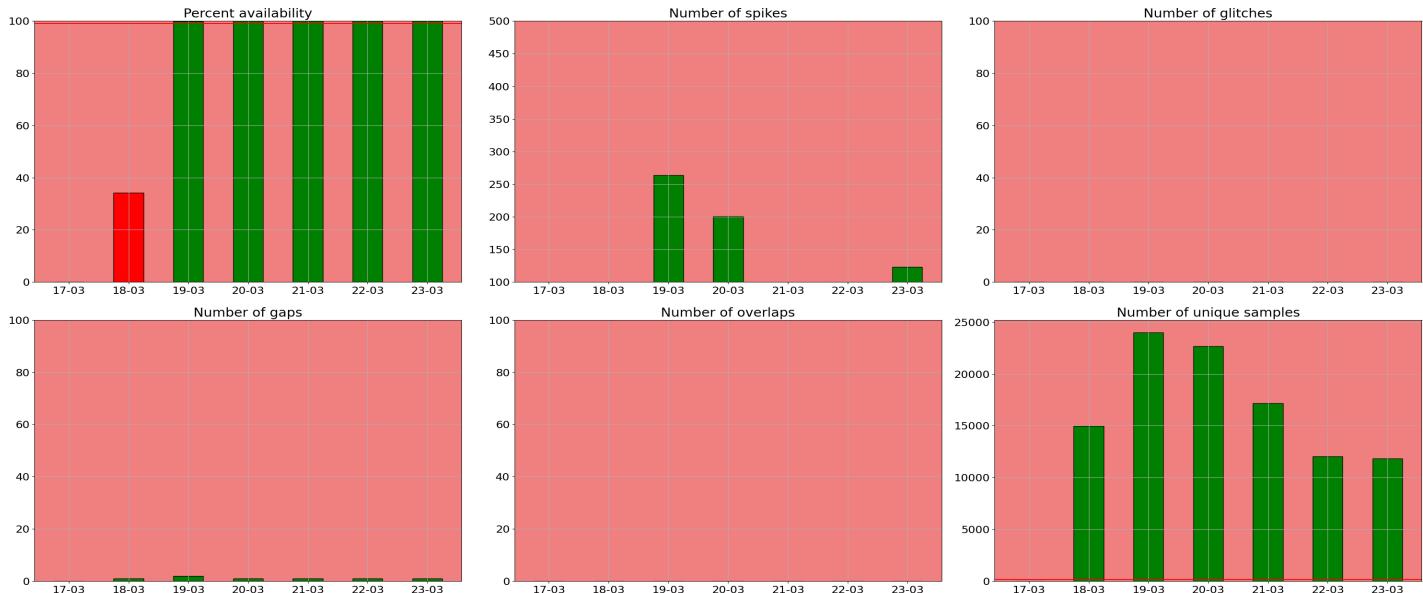


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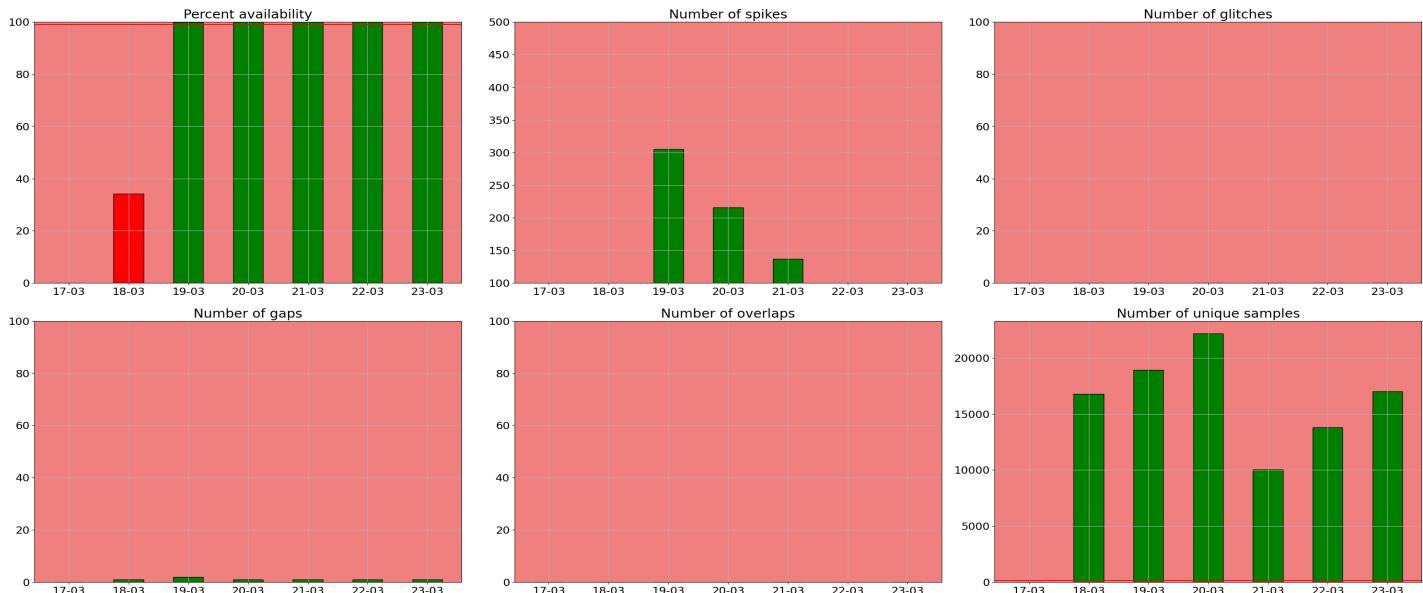


OTOC - Otocac

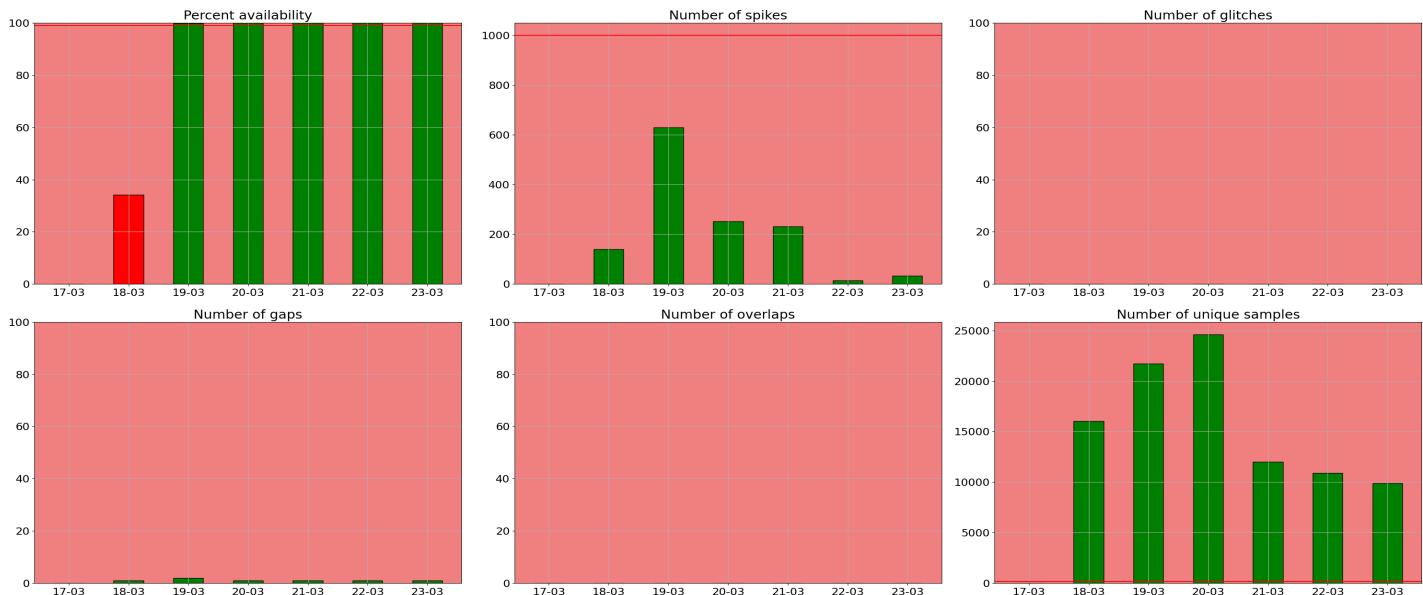
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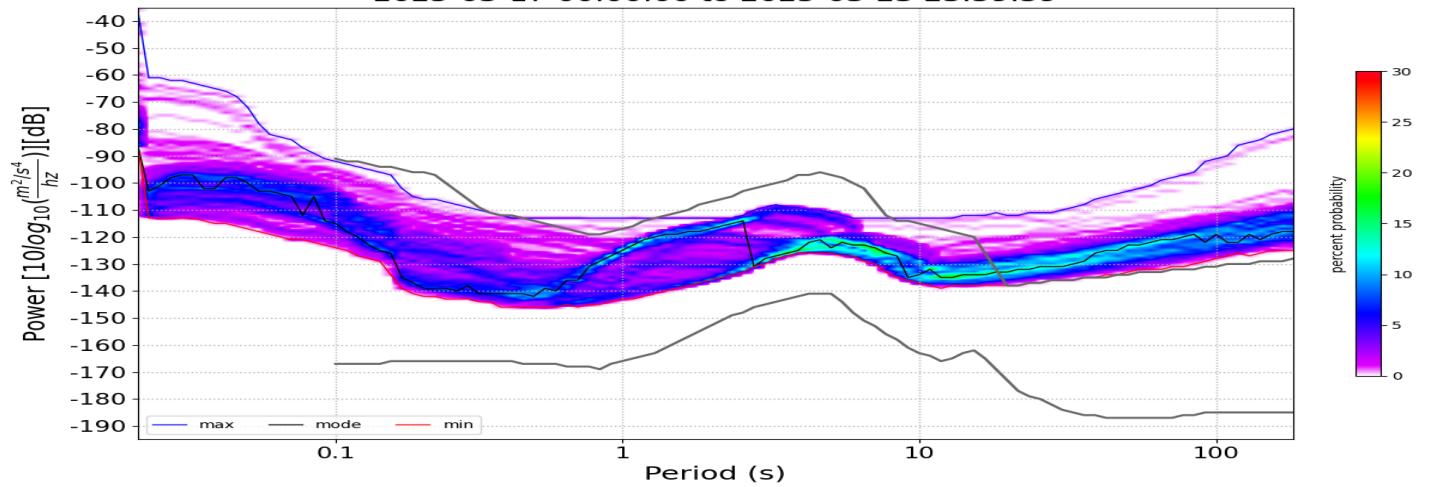
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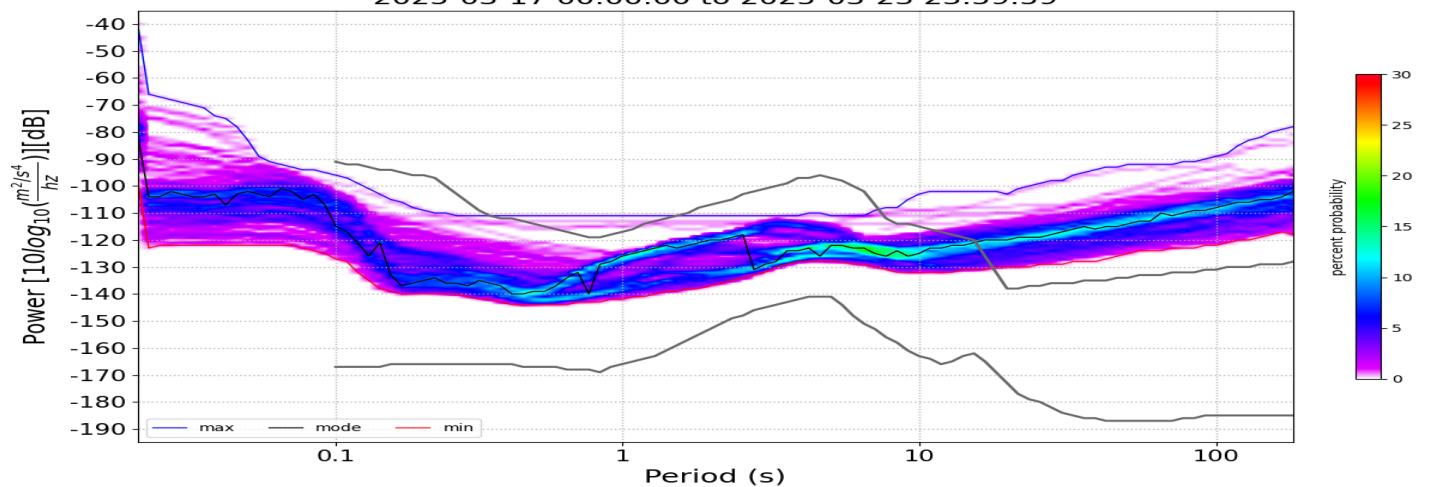
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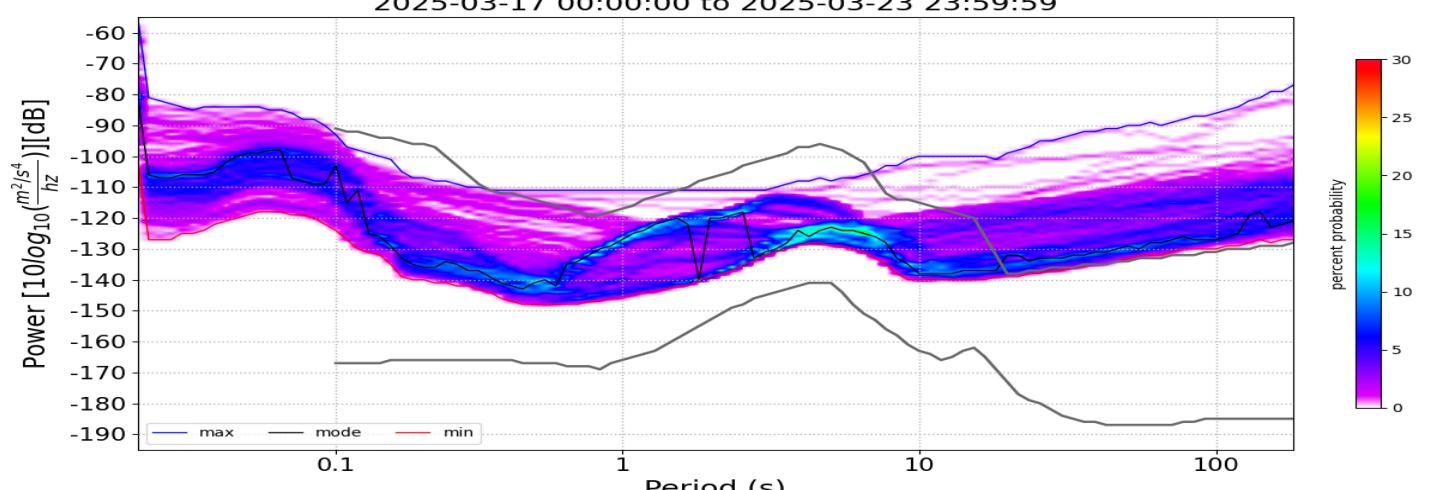
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2025-03-17 00:00:00 to 2025-03-23 23:59:59



PN.OTOC..HHN.D
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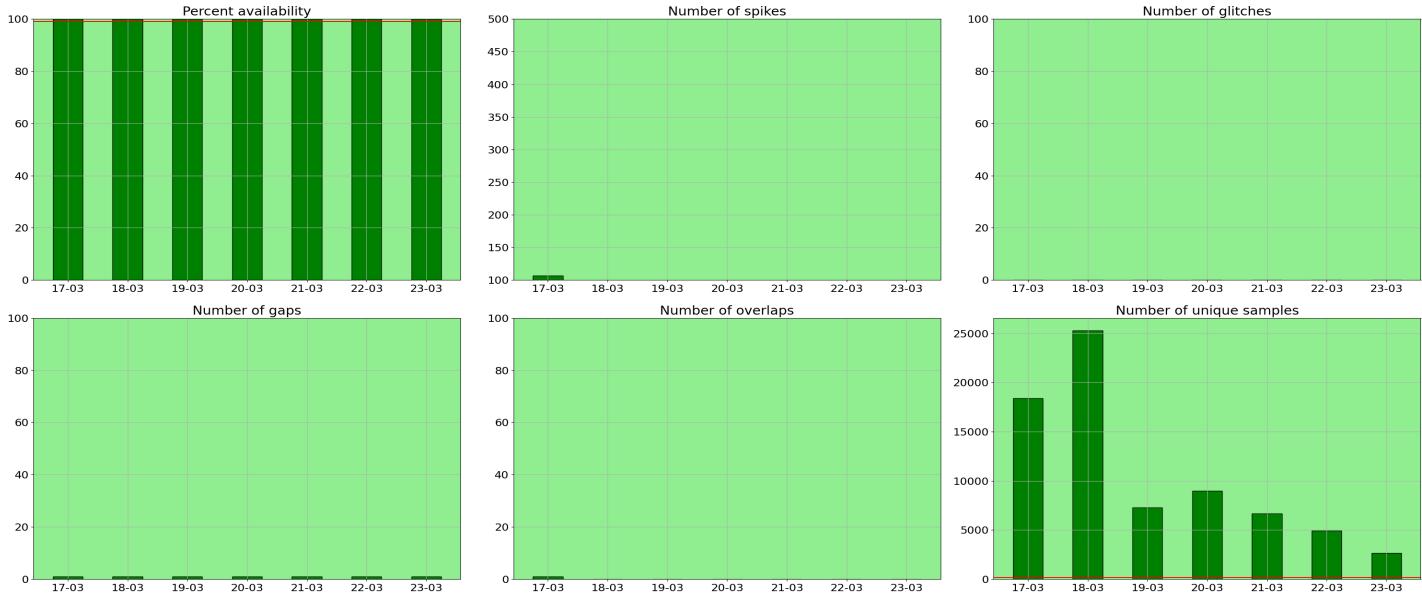


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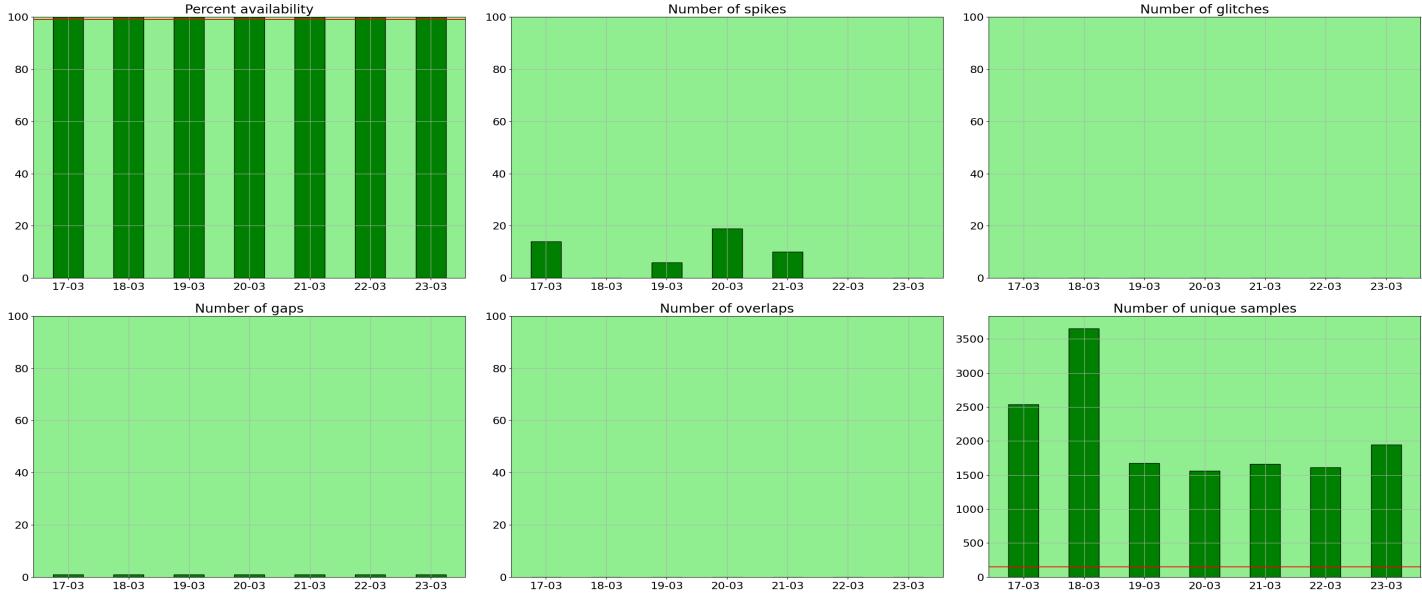


VSVC - Visovac

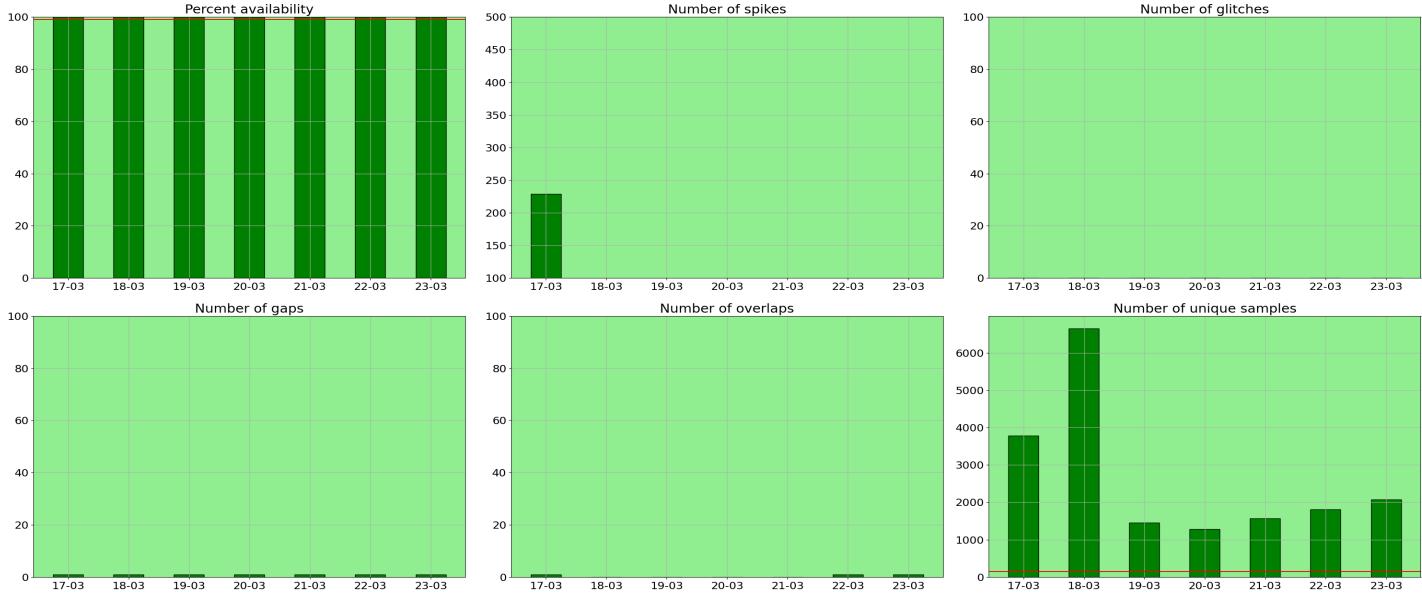
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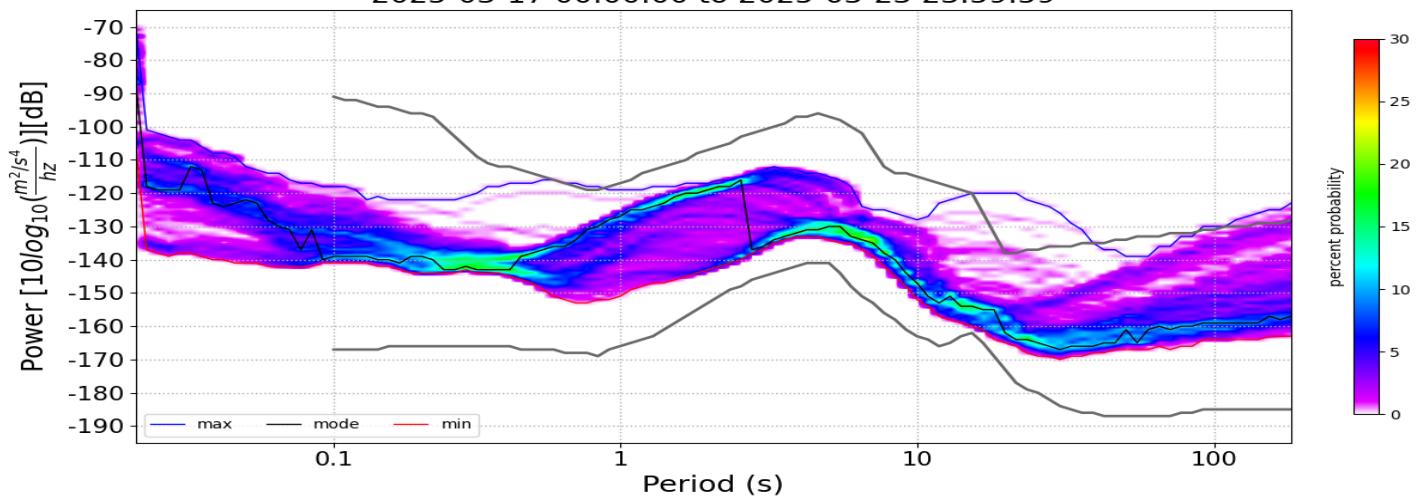
ISPAQ QC for HN



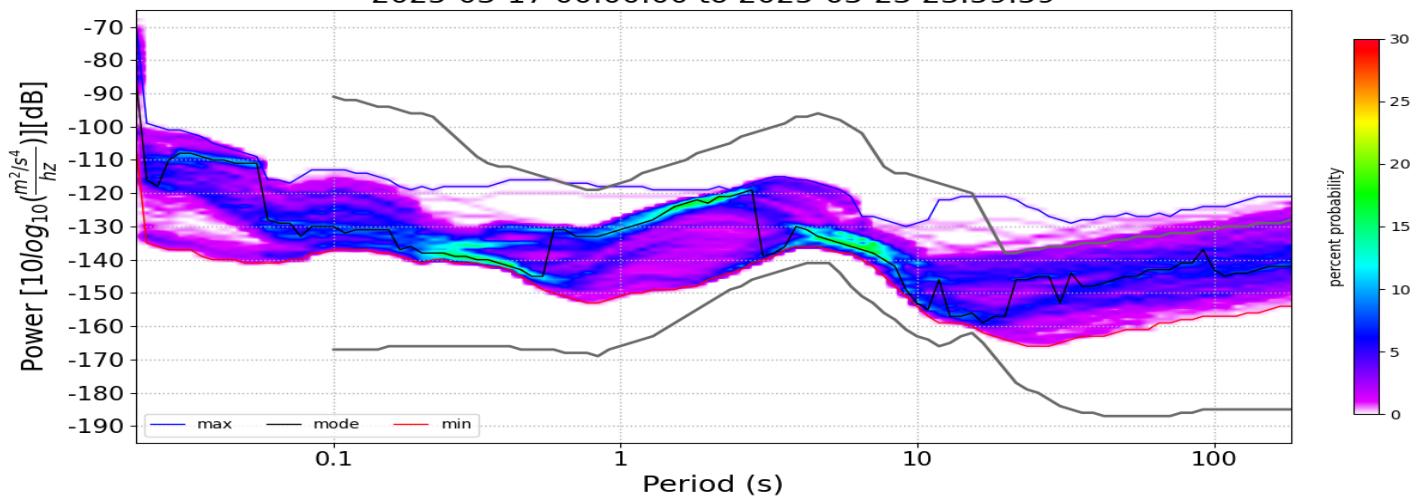
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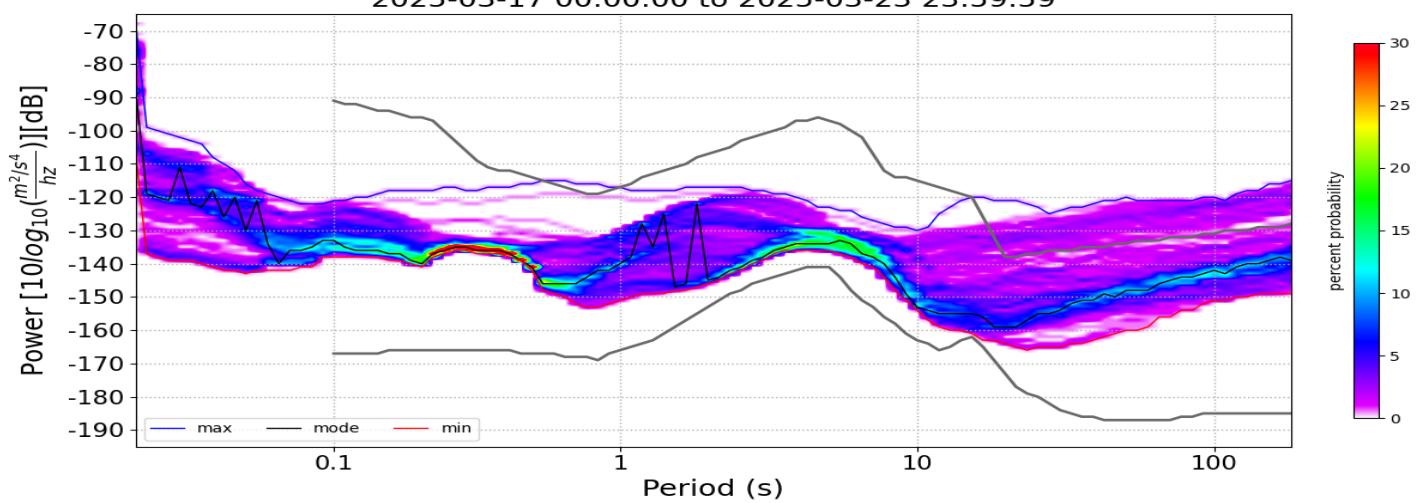
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2025-03-17 00:00:00 to 2025-03-23 23:59:59



HR.VSVC..HHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59

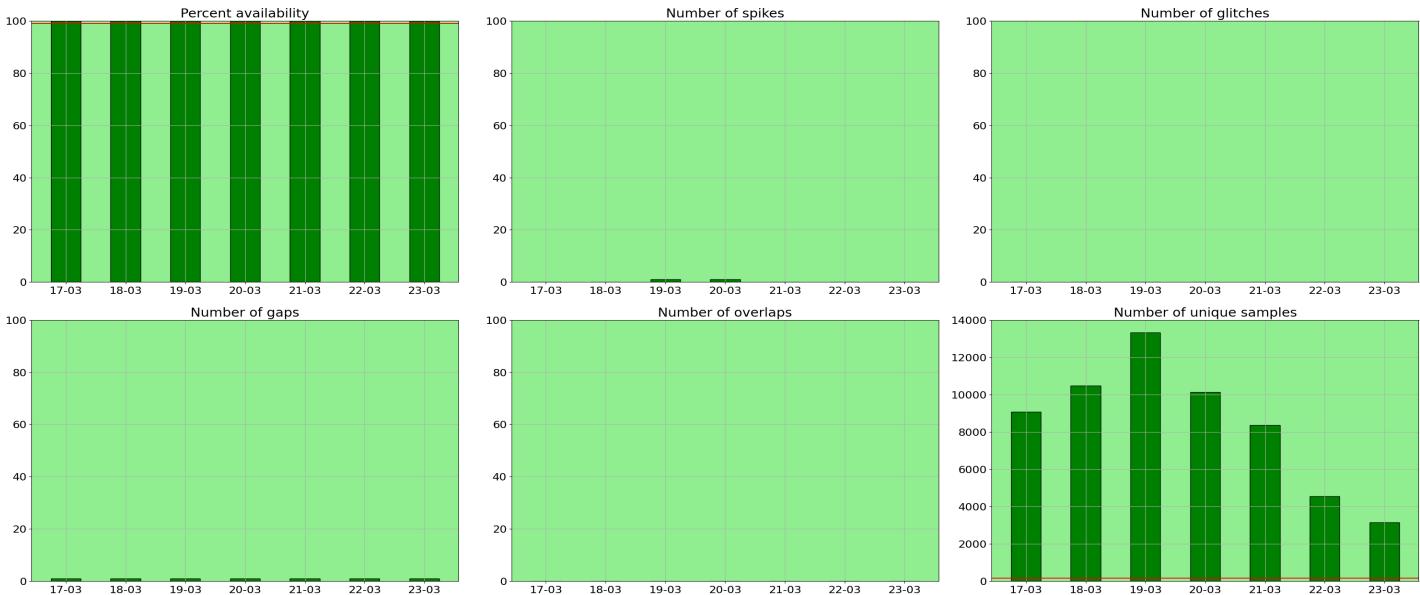


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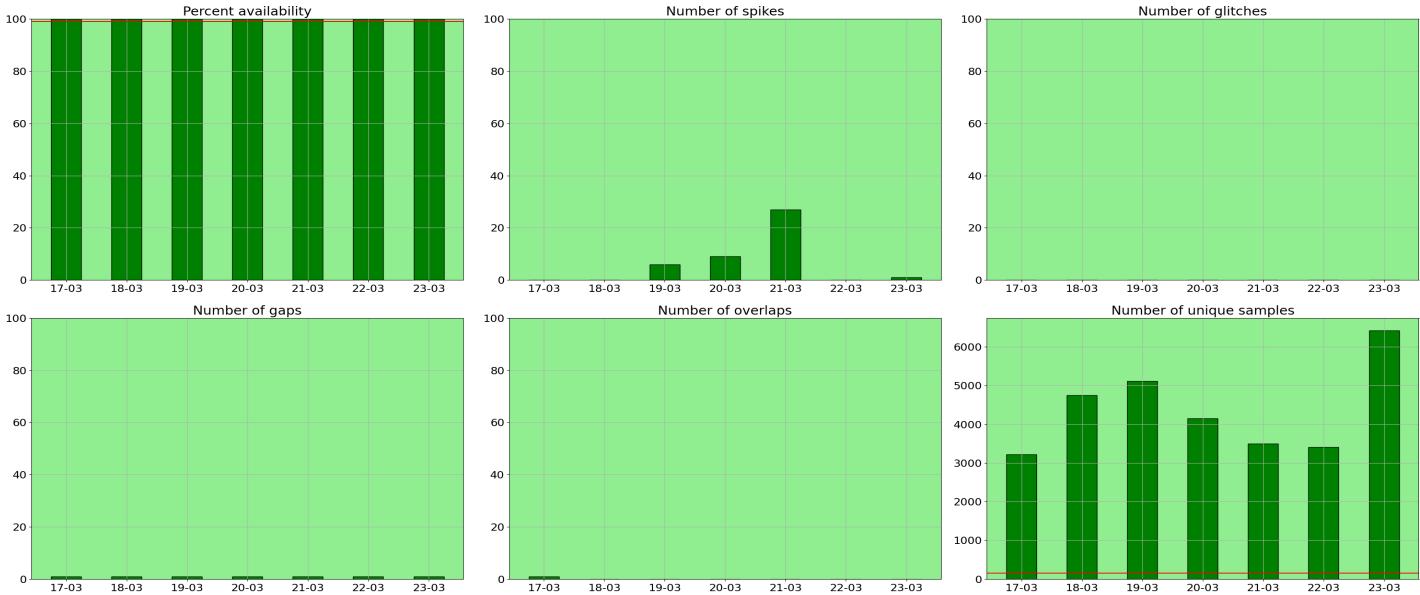


ZBLJ - Zazablje

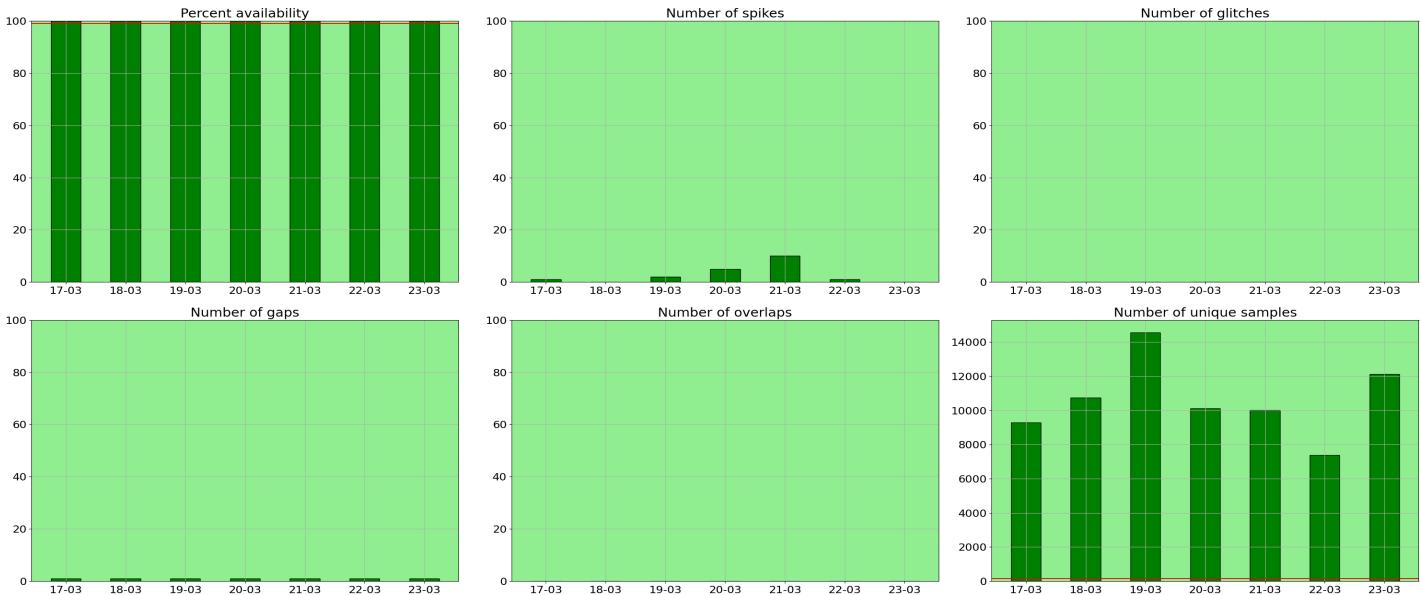
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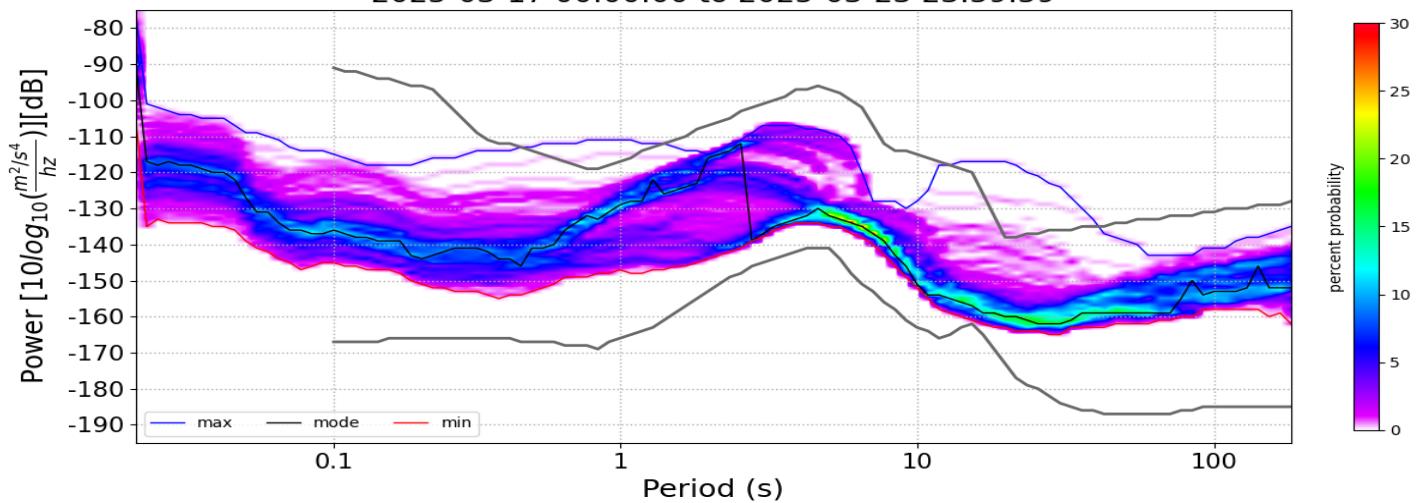
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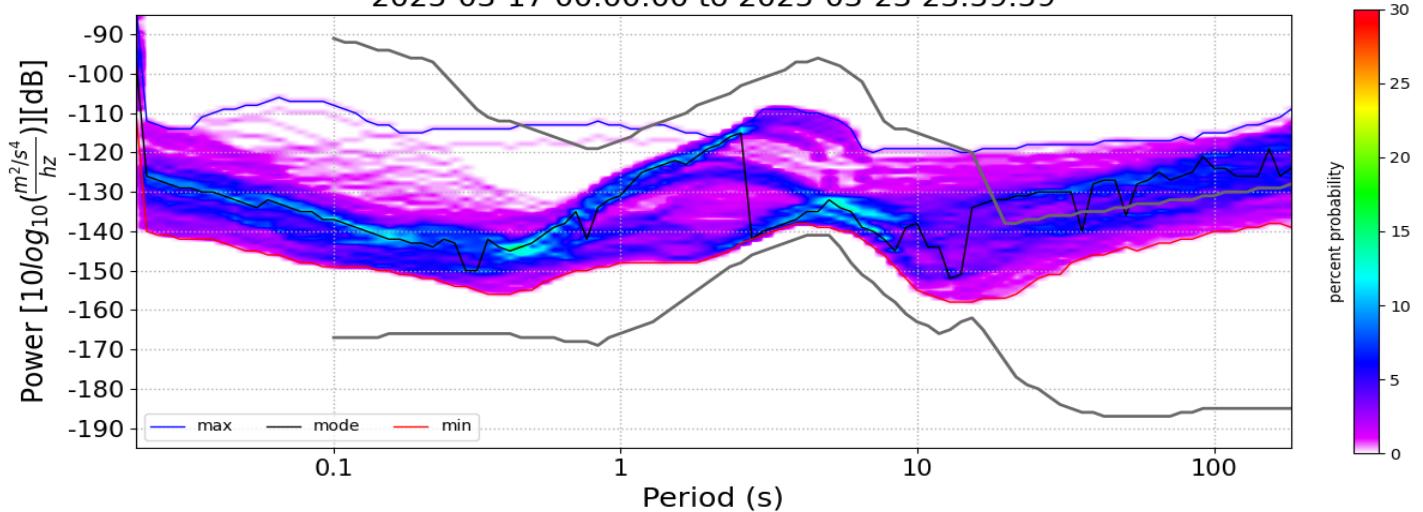
ISPAQ QC for HE



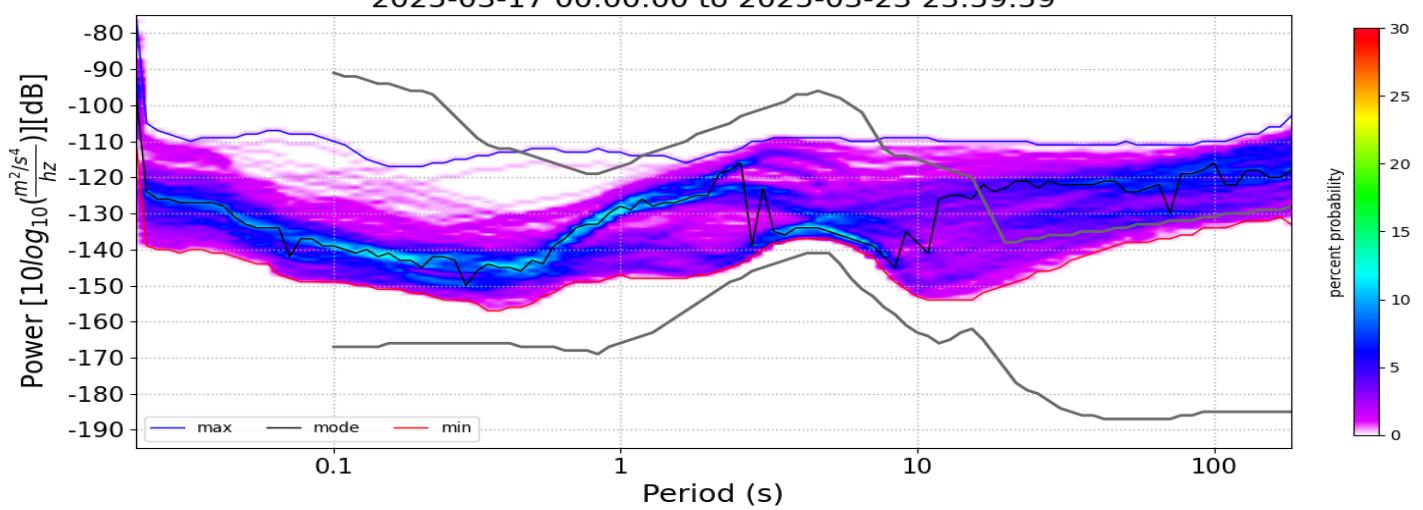
HR.ZBLJ..HHZ.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



HR.ZBLJ..HHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59

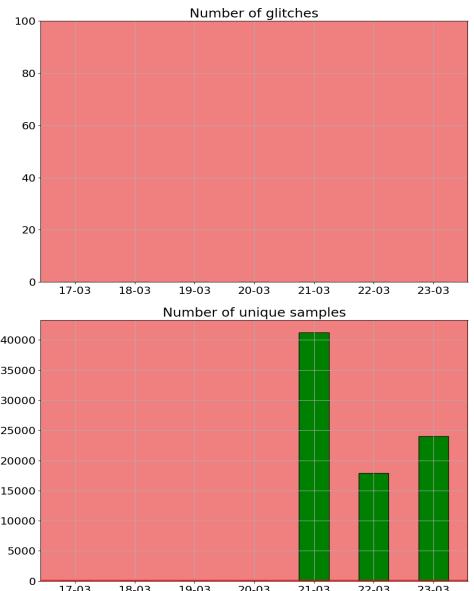
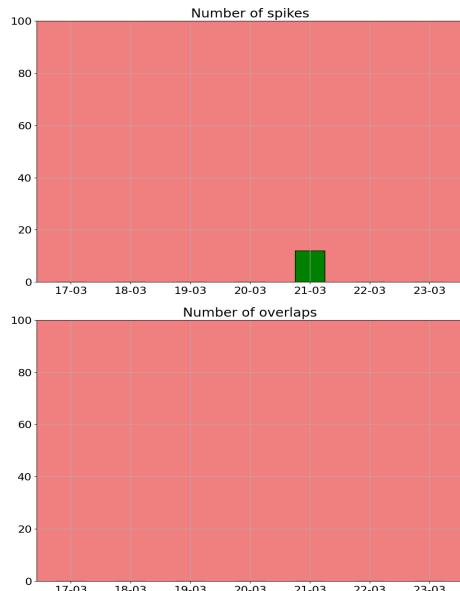
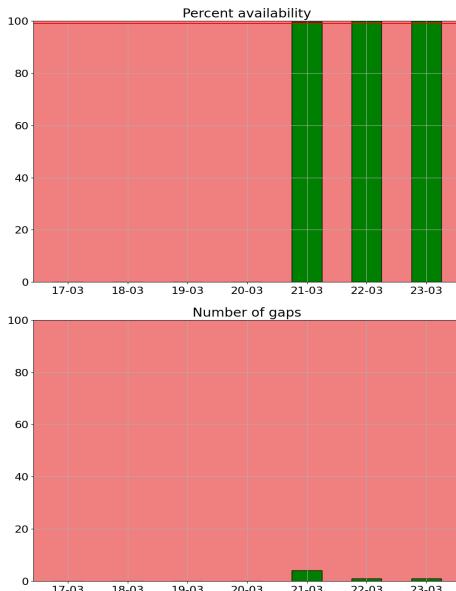


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2025-03-17 00:00:00 to 2025-03-23 23:59:59

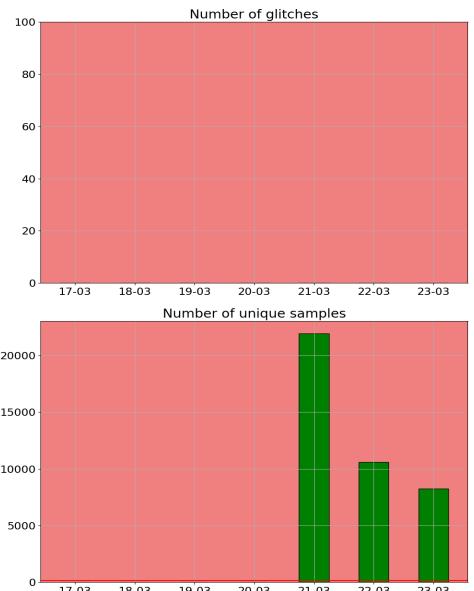
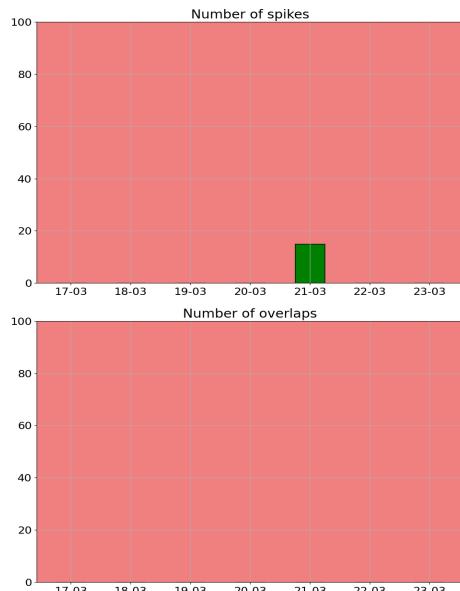
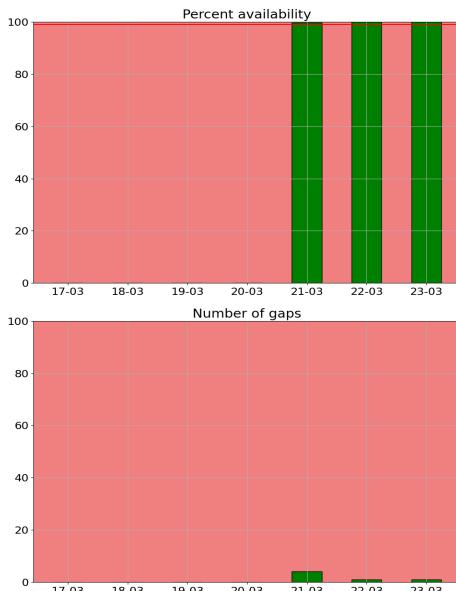


STRC - Stravca

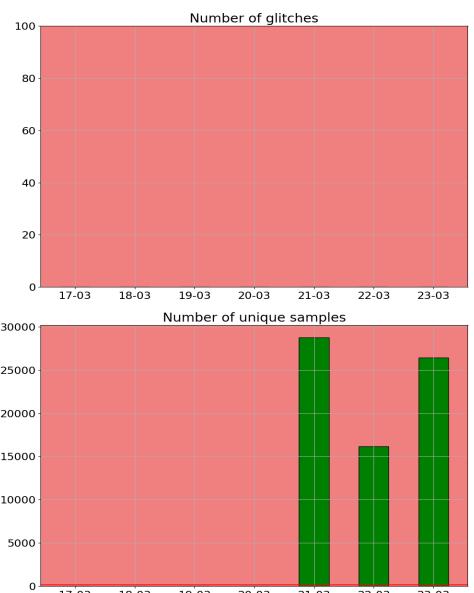
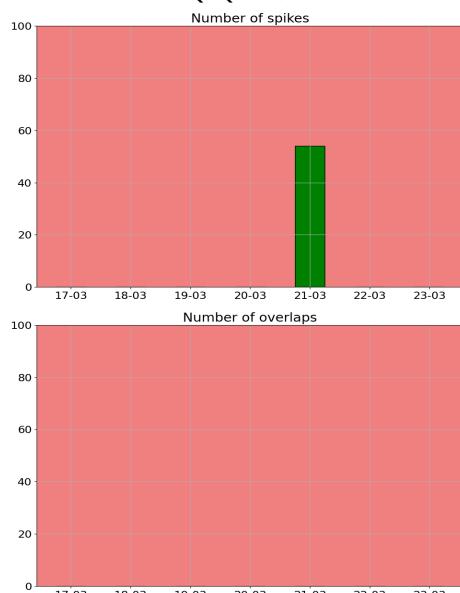
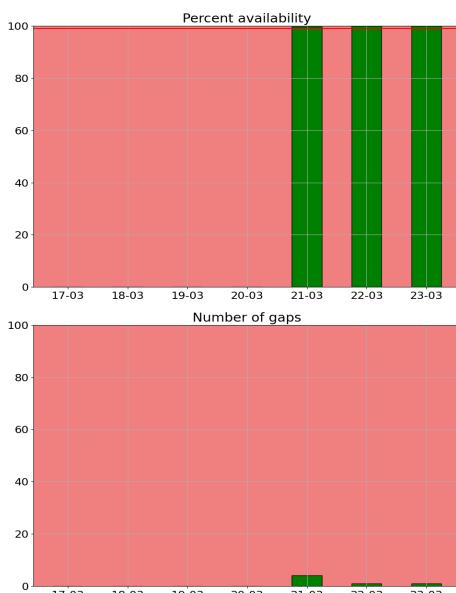
ISPAQ QC for HZ



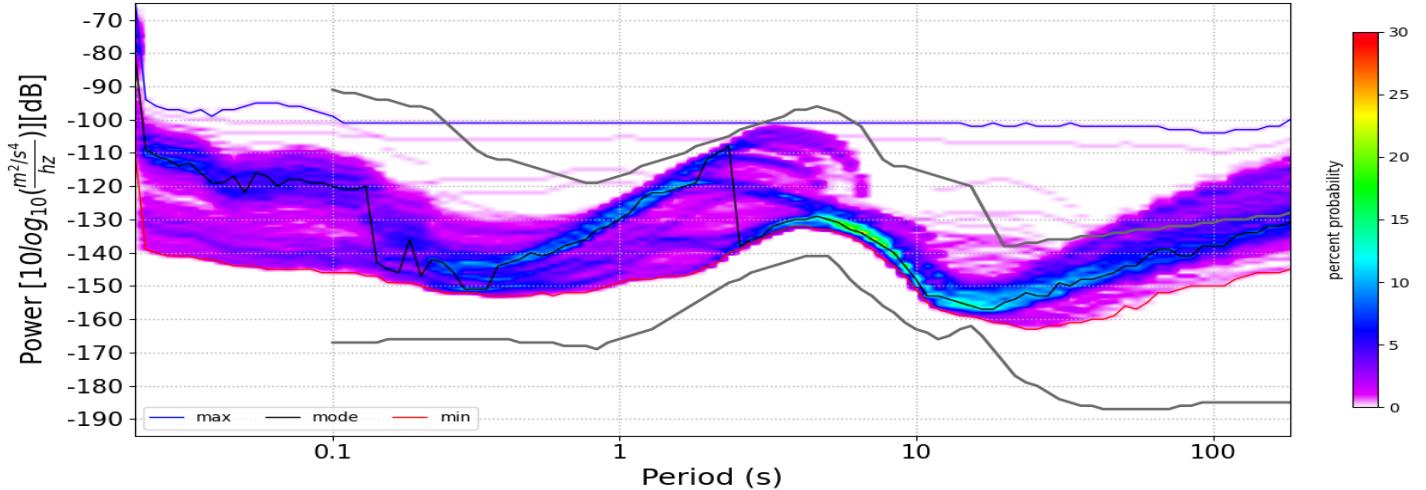
ISPAQ QC for HN



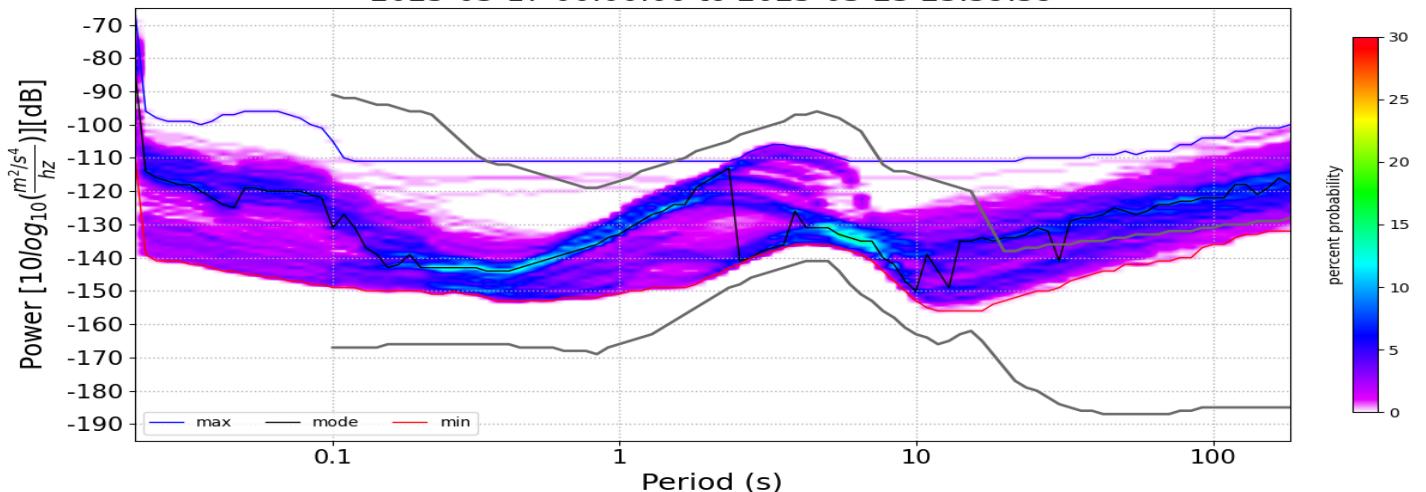
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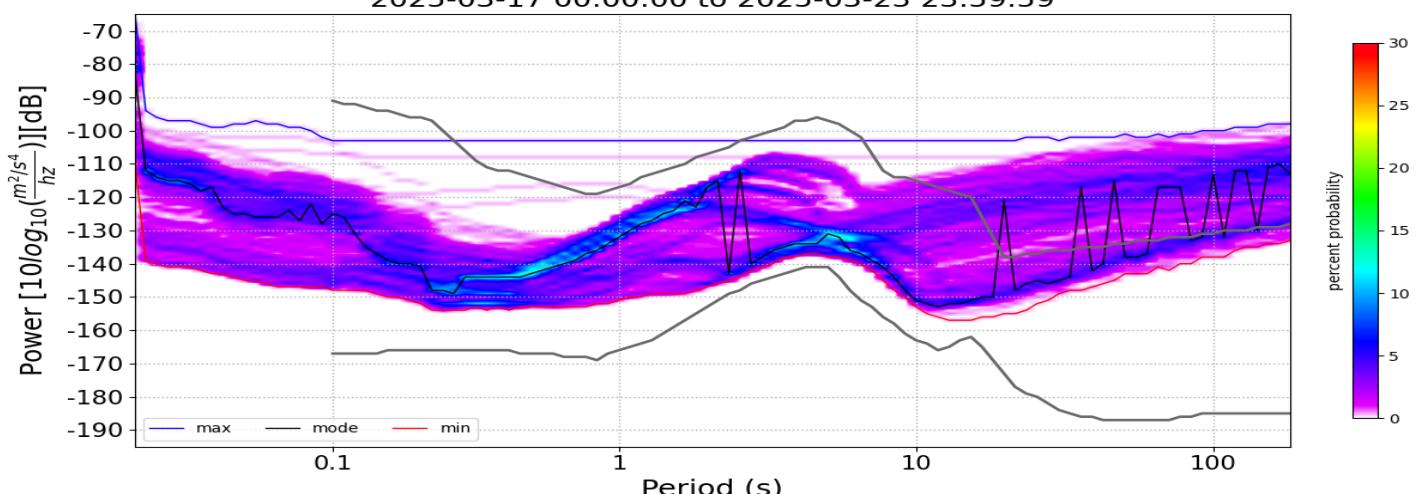
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2025-03-17 00:00:00 to 2025-03-23 23:59:59



HR STRC..HHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59

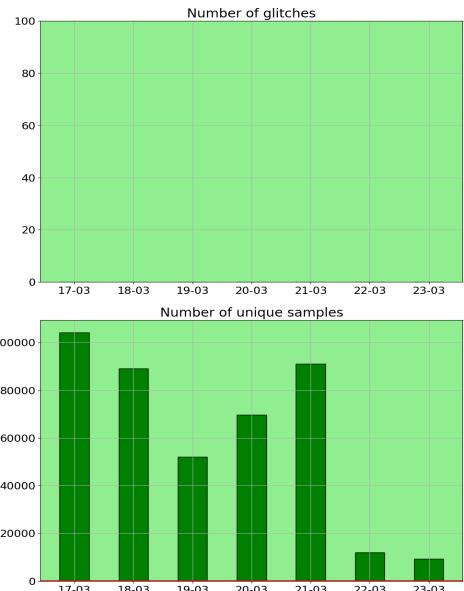
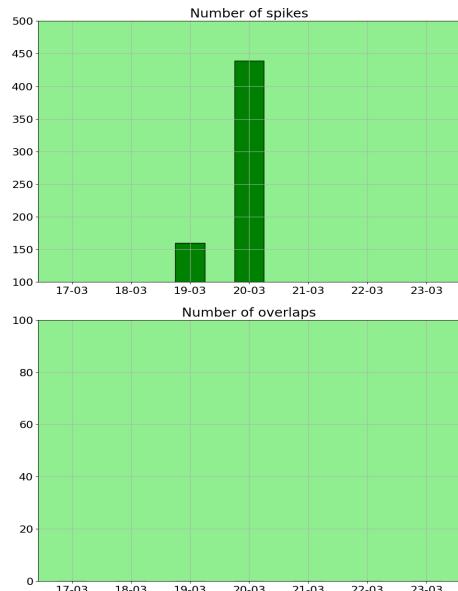
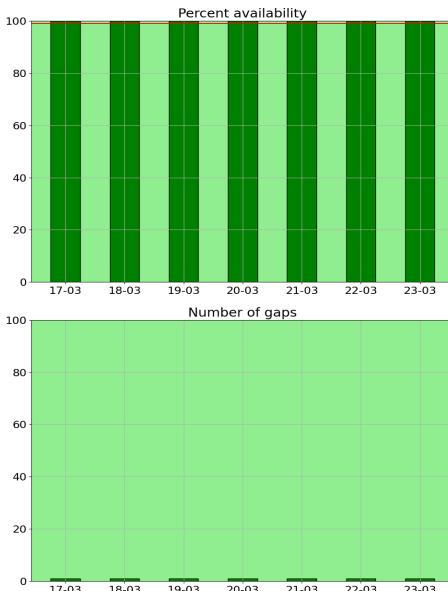


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2025-03-17 00:00:00 to 2025-03-23 23:59:59

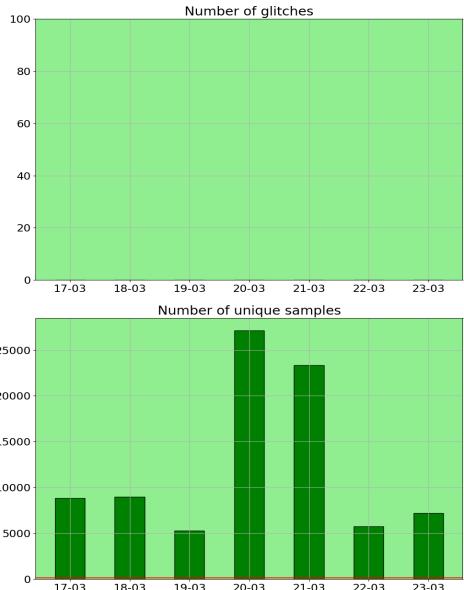
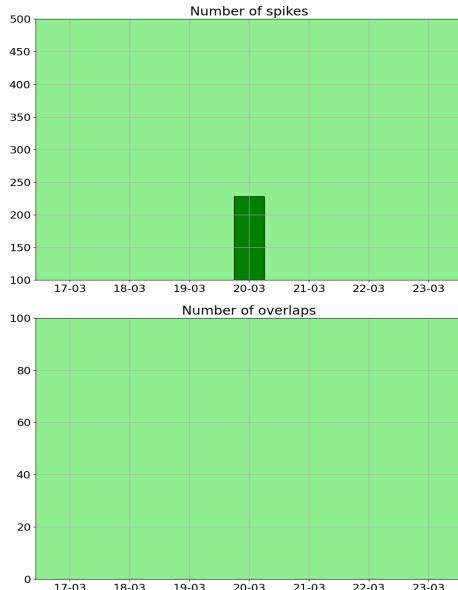
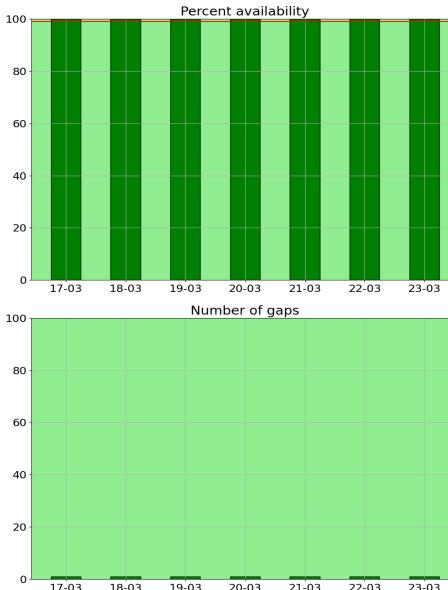


MRCN - Mrcina

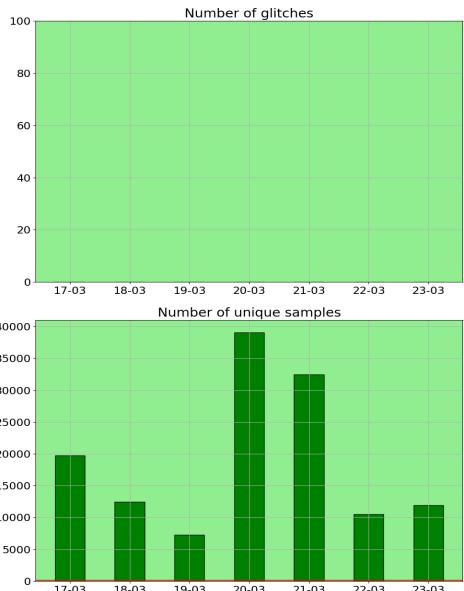
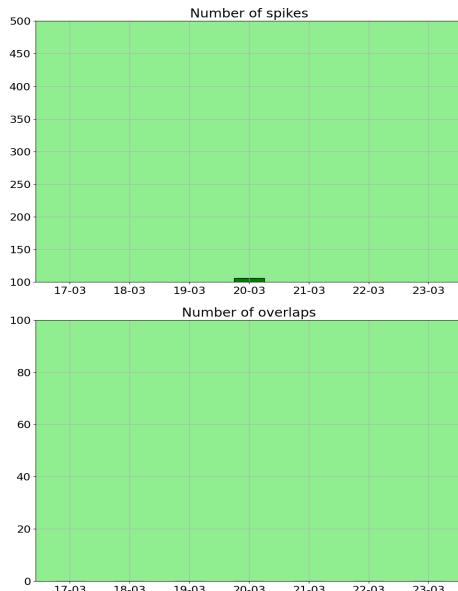
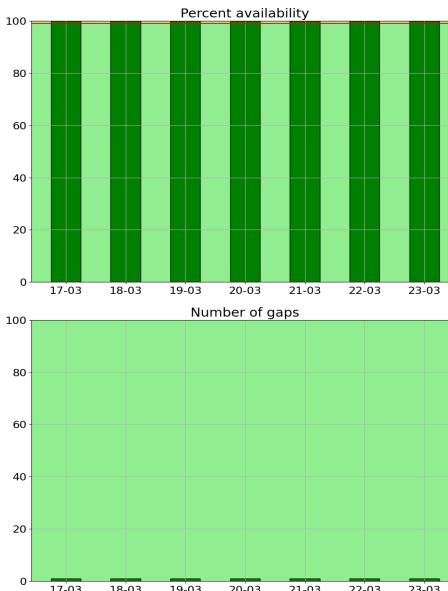
ISPAQ QC for HZ



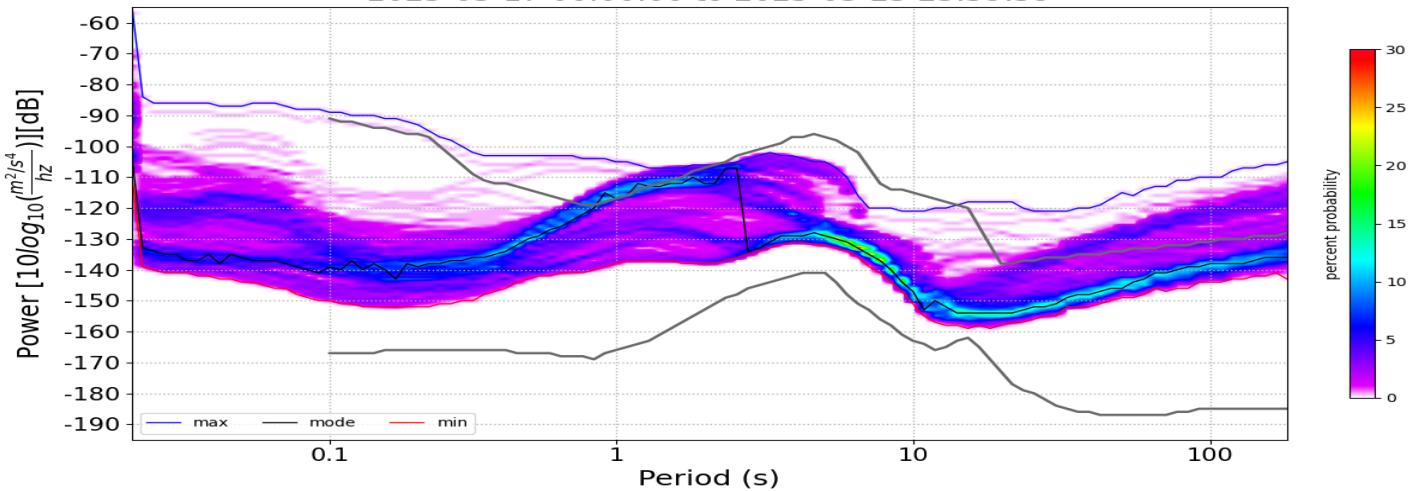
ISPAQ QC for HN



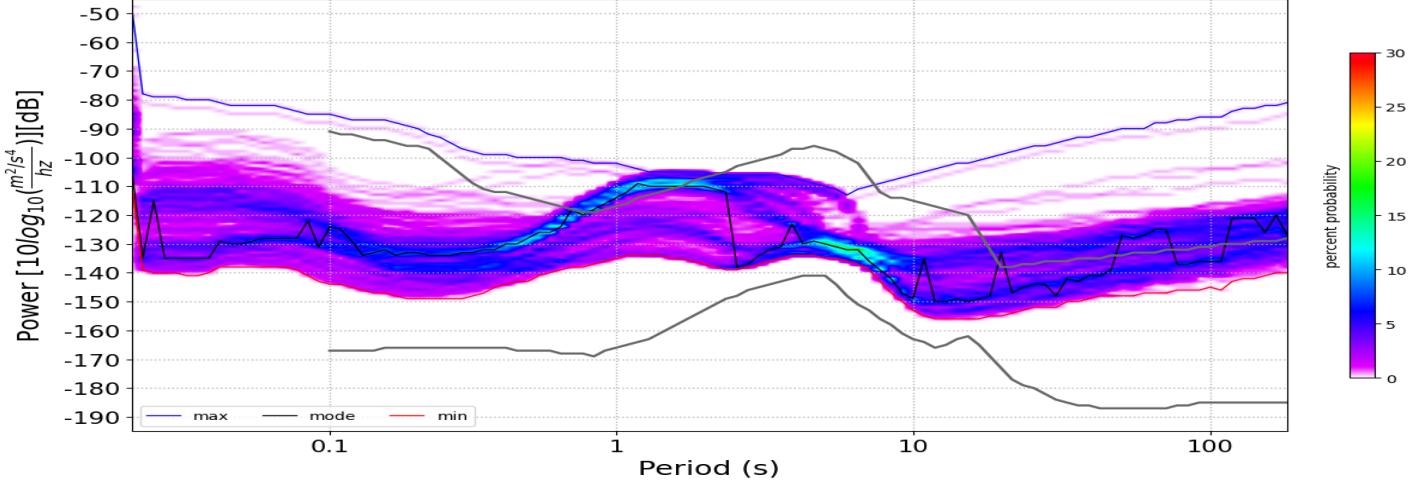
ISPAQ QC for HE



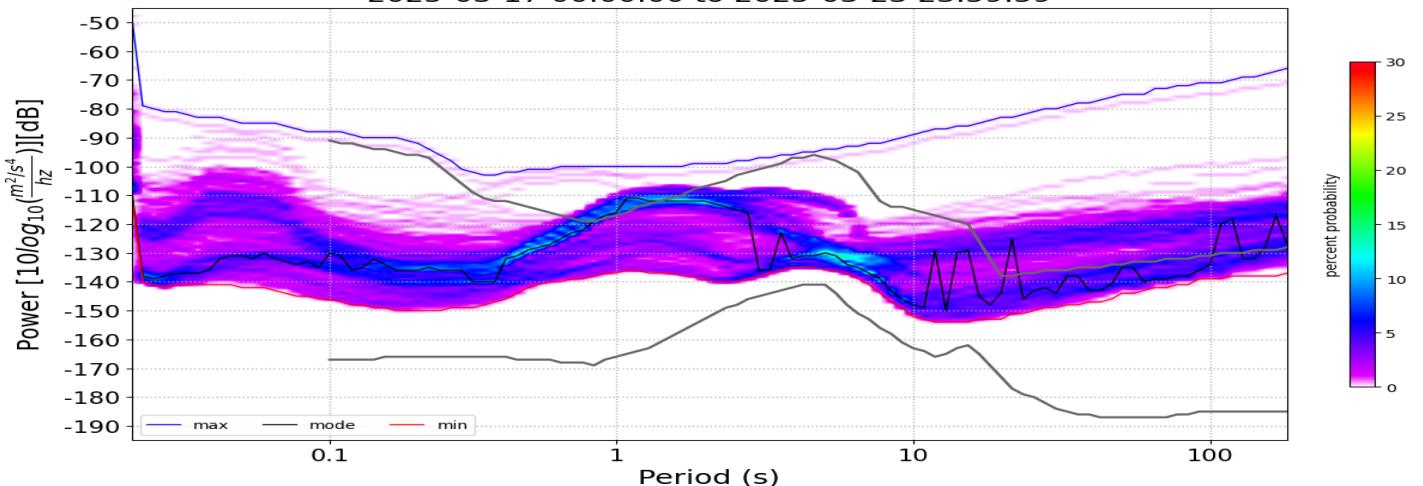
HR.MRCN..HHZ.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



HR.MRCN..HHN.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



HR.MRCN..HHE.D
2025-03-17 00:00:00 to 2025-03-23 23:59:59



Simple metrics and QC variables description

Visualize data availability with Ispaq/percent_availability:

The portion of data available for each day is represented as a percentage. 100% data available means full coverage of data for the reported start and end time. Quality control validity limit is 99%.

NOTE: percent_availability will only be calculated for target-days that have metadata. If metadata is available but no data can be retrieved, then it will be marked as percent_availability=0. In this case, the quality code associated with that target cannot be determined from the data itself and must be inferred. ISPAQ will currently mark data from EarthScope (fdsnws) as quality "M" and data from all other sources as "D". We are aware that this may not be able to capture the complexity of possible quality codes and will work on improving the logic in a future release.

num_spikes:

This metric uses a rolling Hampel filter, a median absolute deviation (MAD) test, to find outliers in a timeseries. The number of discrete spikes is determined after adjacent outliers have been combined into individual spikes. NOTE: not to be confused with the spikes metric, which is an SOH flag only. Quality control validity limit is 1000.

num_glitches:

The number of times that the 'Glitches detected' bit in the 'dq_flags' byte is set within a miniSEED file. This metric can be used to identify data with large filled values that data users may need to handle in a way that they don't affect their research outcomes. Quality control validity limit is 1000.

num_gaps:

This metric reports the number of gaps encountered within a 24-hour window. Quality control validity limit is 500.

num_overlaps:

This metric reports the number of overlaps encountered in a 24-hour window. Quality control validity limit is 1000.

sample_unique:

This metric reports the number (count) of unique values in data trace over a 24-hour window. Quality control validity limit is 150.

Visualize data availability with Obspy:

ObsPy ships the obspy-scan script (automatically available after installation), which detects the file format (MiniSEED, SAC, SACXY, GSE2, SH-ASC, SH-Q, SEISAN, etc.) from the header of the data files. Gaps are plotted as vertical red lines, start times of available data are plotted as crosses - the data itself are plotted as horizontal lines. The script can be used to scan through 1000s of files (already used with 30000 files, execution time ca. 45min), month/year ranges are plotted automatically. It opens an interactive plot in which you can zoom in.

PDF/PSD:

Probability density function plots and/or text output (controlled by PDF_Preferences in the preference file; or by --pdf_type, --pdf_interval, --plot_include on the command line). You must have local PSD files written in the format produced by the 'psd_corrected' metric (below) or run it concurrently with 'psd_corrected'. These files should be in a directory specified by the psd_dir entry in the preference file or by --psd_dir on the command line, or in the database specified by db_name.

Sources: EarthScope (2025). ISPAQ: *IRIS Seismographic Processing and Analysis Queue*. Available at: <https://github.com/EarthScope/ispaq> (Accessed: 17 February 2025).

OBSPY: Available at: <https://docs.obspy.org/> (Accessed: 25 February 2025).