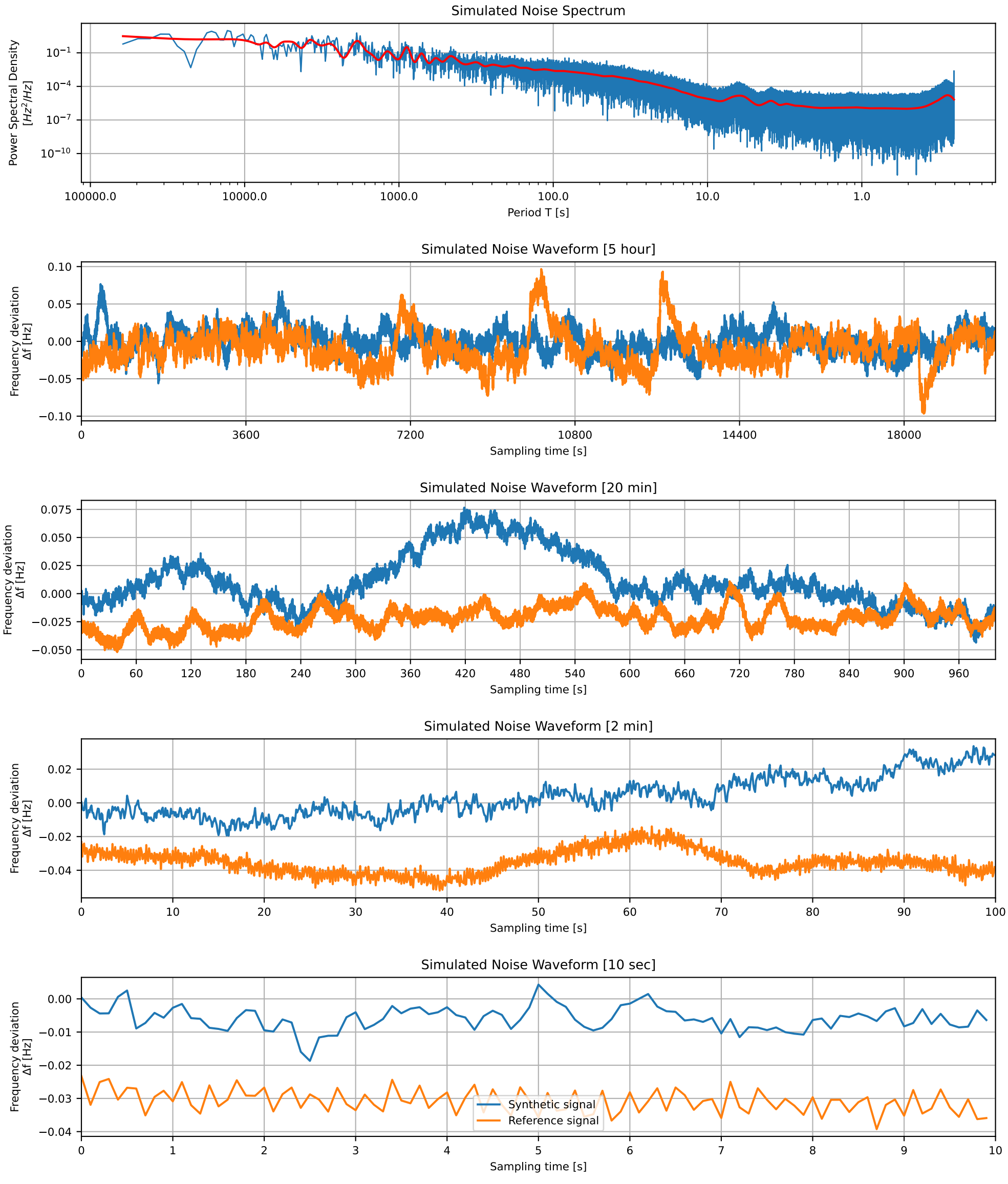
Simulated Noise Spectrum
Power Spectral Density [Hz^2/Hz]
10^{-1}
10^{-4}
10^{-7}
10^{-10}
100000.0
10000.0
1000.0
100.0
10.0
1.0
Period T [s]
Simulated Noise Waveform [5 hour]
Frequency deviation Δf [Hz]
0.10
0.05
0.00
−0.05
−0.10
0
3600
7200
10800
14400
18000
Sampling time [s]
Simulated Noise Waveform [20 min]
Frequency deviation Δf [Hz]
0.075
0.050
0.025
0.000
−0.025
−0.050
0
60
120
180
240
300
360
420
480
540
600
660
720
780
840
900
960
Sampling time [s]
Simulated Noise Waveform [2 min]
Frequency deviation Δf [Hz]
0.02
0.00
−0.02
−0.04
0
10
20
30
40
50
60
70
80
90
100
Sampling time [s]
Simulated Noise Waveform [10 sec]
Frequency deviation Δf [Hz]
0.00
−0.01
−0.02
−0.03
−0.04
Synthetic signal
Reference signal
0
1
2
3
4
5
6
7
8
9
10
Sampling time [s]