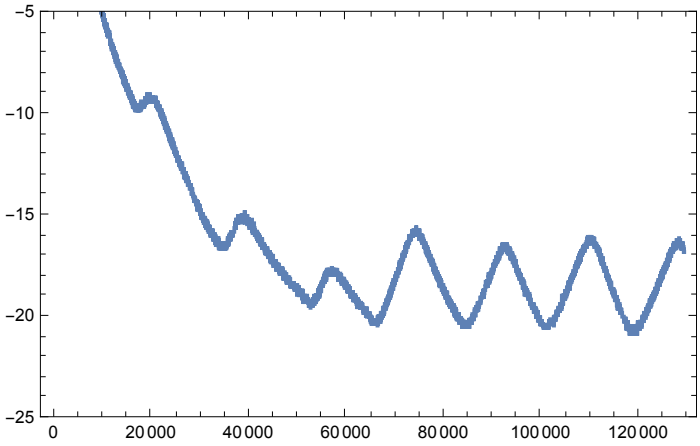
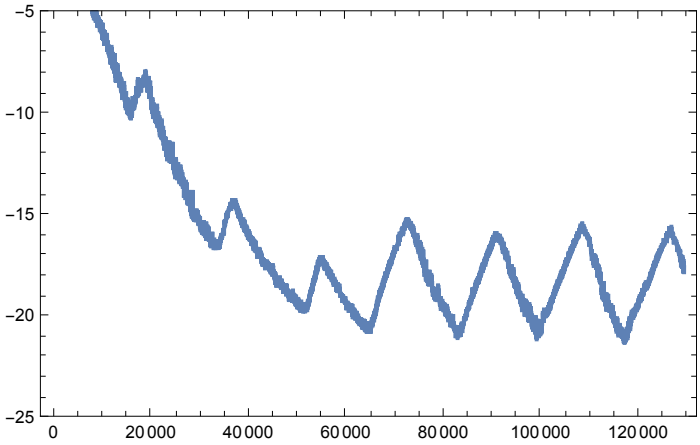
```
In[•]:= Remove[a]

In[•]:= a = Import[
          "~/LR5-SSR_2025-11-26_H15_M54_S34/LR5-SSR_2025-11-28_H14_M21_S55.csv",
          "CSV"];

In[•]:= a[[1]]
Out[•]=
        {2025 Nov 28 14:21:55.439, 0.12, 13.5625, 4.1875, 1}

In[•]:= a[[Length[a]]]
Out[•]=
        {2025 Nov 28 17:57:18.664, 12 923.3, -16.8125, -17.5625, 1}

In[•]:= Dimensions[a]
Out[•]=
        {112 175, 5}

In[•]:= b = Table[{a[[i, 2]] * 10, a[[i, 3]]}, {i, 1, Length[a], 10}];

In[•]:= c = Table[{a[[i, 2]] * 10, a[[i, 4]]}, {i, 1, Length[a], 10}];

In[•]:= g1 = ListPlot[b, Axes → False, Frame → True, PlotRange → {-25, -5}, Joined → True]
Out[•]=
```

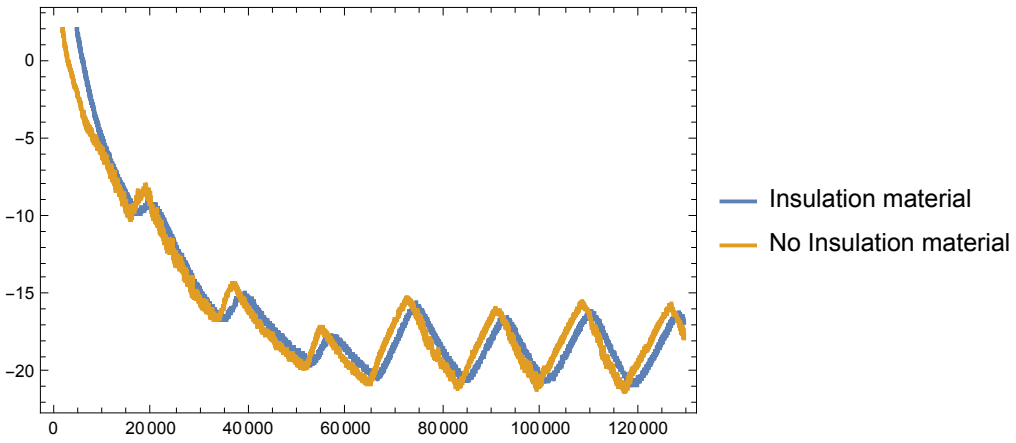



```
In[•]:= g2 = ListPlot[c, Axes → False, Frame → True, PlotRange → {-25, -5}, Joined → True]
Out[•]=
```



```
In[•]:= ListPlot[{b, c},
         PlotLegends → {"Insulation material", "No Insulation material"},
         Axes → False, Frame → True, Joined → True]
```

Out[•]=



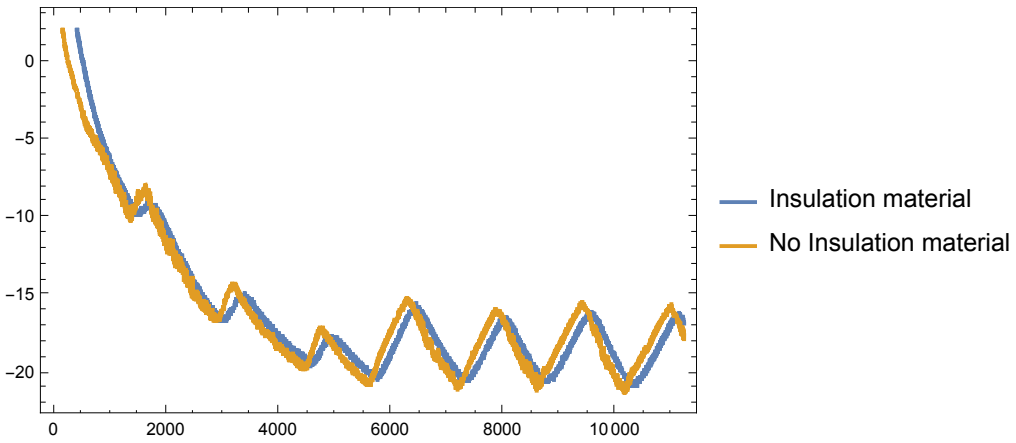

```
In[•]:= b1 = Table[a[[i, 3]], {i, 1, Length[a], 10}];

In[•]:= c1 = Table[a[[i, 4]], {i, 1, Length[a], 10}];

In[•]:= b1[[1]]
```

Out[•]=

```
13.5625
```

```
In[•]:= ListPlot[{b1, c1},
         PlotLegends → {"Insulation material", "No Insulation material"},
         Axes → False, Frame → True, Joined → True]
```

Out[•]=




```
In[•]:= b2 = Table[a[[i, 3]], {i, 90 000, 100 000}];

In[•]:= c2 = Table[a[[i, 4]], {i, 90 000, 100 000}];

In[•]:= Max[c2] - Max[b2]
```

Out[•]=

```
0.75
```

CrossCorrelation

In[58]:=
```
w1 = Table[a[[i, 3]], {i, 50 000, 110 000}];
```

In[59]:=
```
w2 = Table[a[[i, 4]], {i, 50 000, 110 000}];
```

In[60]:=
```
f1 = Fourier[w1];
```

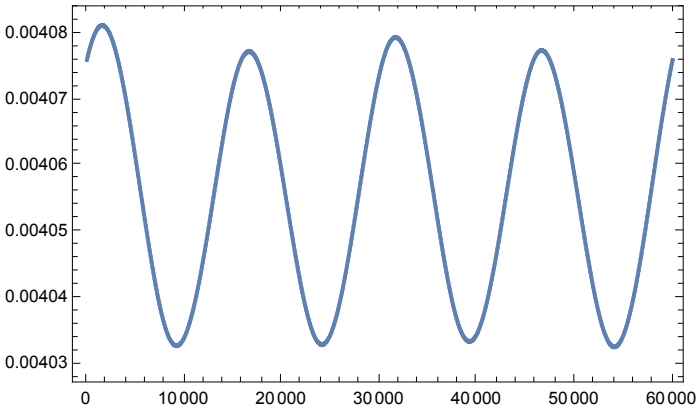
In[61]:=
```
f2 = Conjugate[Fourier[w2]];
```

In[62]:=
```
ff = f1 * f2;
```

In[63]:=
```
c1 = Re[InverseFourier[ff]] / (Norm[w1] Norm[w2]);
```

In[64]:=
```
ListPlot[Re[c1], Joined → True, PlotRange → All, Axes → False, Frame → True]
```

Out[64]=



In[65]:=
```
mc = Max[c1]
```

Out[65]=
```
0.00408124
```

In[66]:=
```
z = 0;
```

In[67]:=
```
Do[If[c1[[i]] == mc, z = i], {i, Length[c1]}]
```

In[68]:=
```
Print[z]
```
```
1590
```

In[69]:=
```
a[[z, 2]]
```

Out[69]=
```
182.79
```