# AlaVar generated report

**F:\LC\ec79.dat**

File 'F:\LC\ec79.dat' created on 25.04.2014 10:31:00
Column # 1 was processed
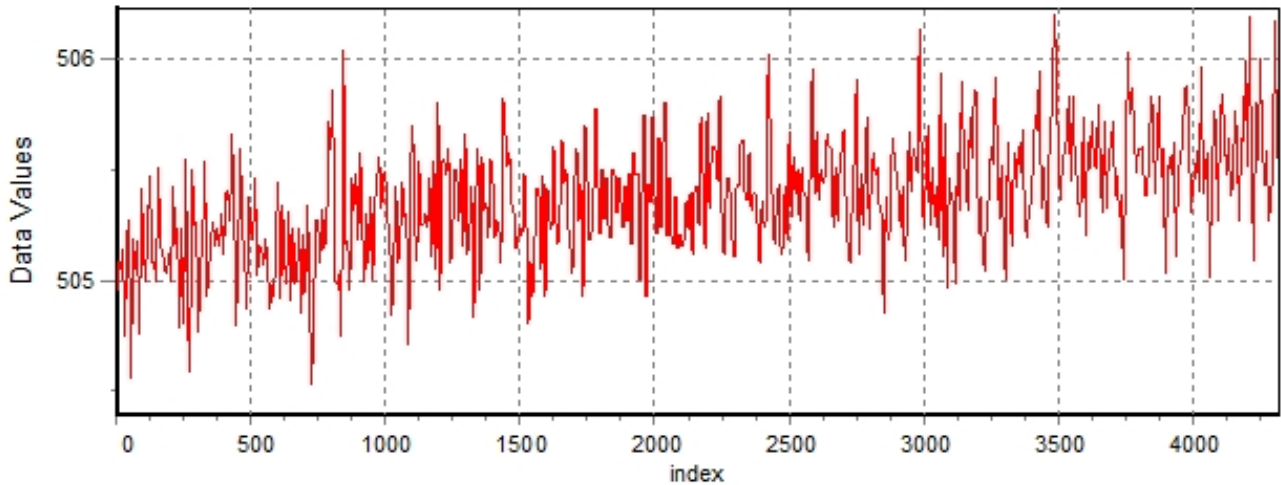Data length N = 4320 points.
    The mean Value of the processed data = 505.367
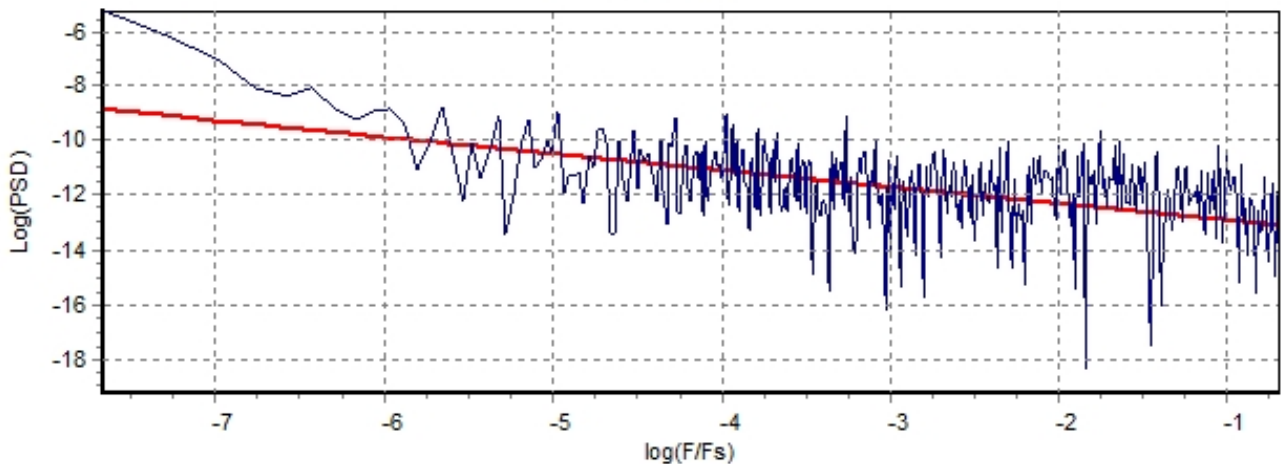    The Stanadrd Deviation of the processed data = 0.276985



**Figure 1 : Processed Data**



**Figure 2 : Data PSD**

The computation of the 3 ALLAN STD DEVs lasted 0.013000 seconds
    The error bars were computed for a : Flicker FM
    The computation of the Error bars lasted 0.001 seconds
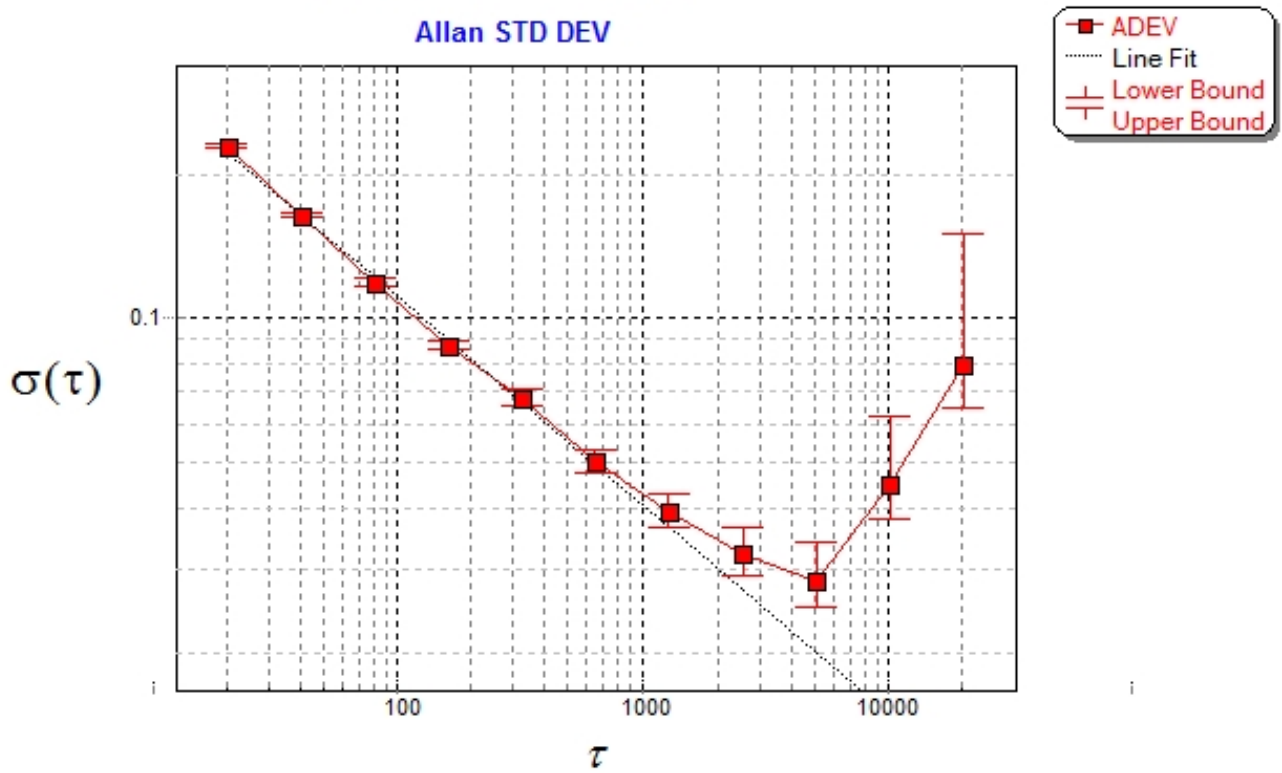
ADEV(tau) was fitted to a line :
    The Solpe of the line is =-0.434332
    The fit result is ADEV(tau=1) = Stability =0.815615

Tau = average Time
ADEV = Overlapping ALLAN STD DEV.
ADEV_Min = ADEV lower bound.
ADEV_Max = ADEV upper bound.
MDEV = Modified ALLAN STD DEV.
TDEV = Time ALLAN STD DEV.
HDEV = Overlapping HADAMARD STD DEV.

| Tau | ADEV | ADEV_Min | ADEV_Max | MDEV | TDEV | HDEV |
|------|---------|----------|----------|----------|--------|----------|
| 20 | 0.22915 | 0.22655 | 0.23184 | 0.22915 | 2.6459 | 0.2289 |
| 40 | 0.16305 | 0.16087 | 0.16532 | 0.12961 | 2.9933 | 0.16171 |
| 80 | 0.1184 | 0.11619 | 0.12075 | 0.086491 | 3.9949 | 0.118 |
| 160 | 0.087046 | 0.084763 | 0.089523 | 0.064543 | 5.9622 | 0.085129 |
| 320 | 0.067879 | 0.065396 | 0.070668 | 0.050196 | 9.2739 | 0.066785 |
| 640 | 0.050114 | 0.047568 | 0.053117 | 0.036297 | 13.412 | 0.048571 |
| 1280 | 0.03934 | 0.036577 | 0.042841 | 0.029538 | 21.829 | 0.038268 |
| 2560 | 0.032185 | 0.029074 | 0.036567 | 0.024867 | 36.753 | 0.031092 |
| 5120 | 0.028003 | 0.024298 | 0.03416 | 0.023981 | 70.888 | 0.017754 |
| 10240 | 0.044603 | 0.036588 | 0.062141 | 0.042418 | 250.78 | 0.011711 |
| 20480 | 0.079388 | 0.060499 | 0.14871 | 0.074064 | 875.75 | 0.011538 |

**Figure 3 : Allan Standard Deviation**