LMRK60 IMU

Example Test Data

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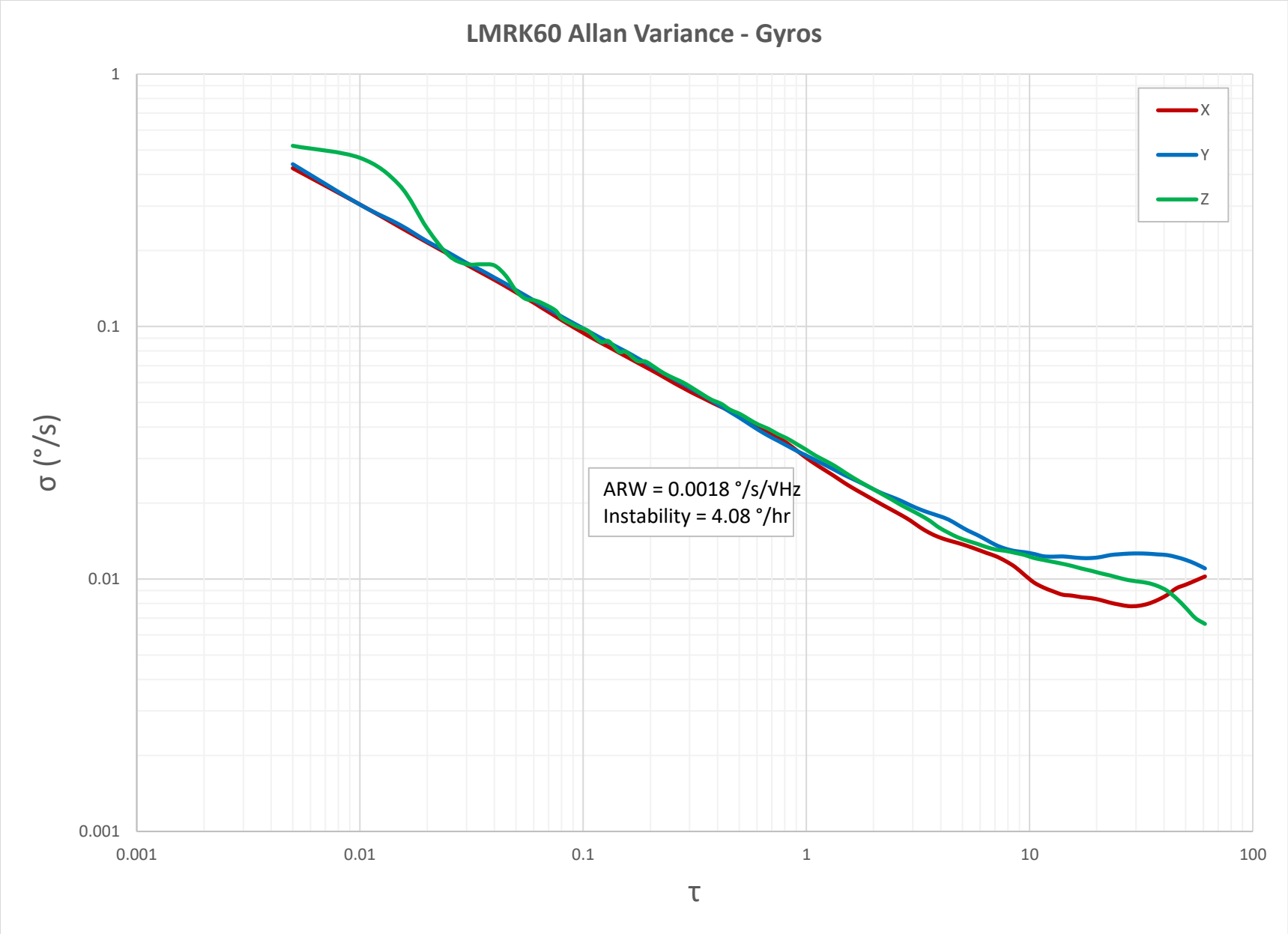

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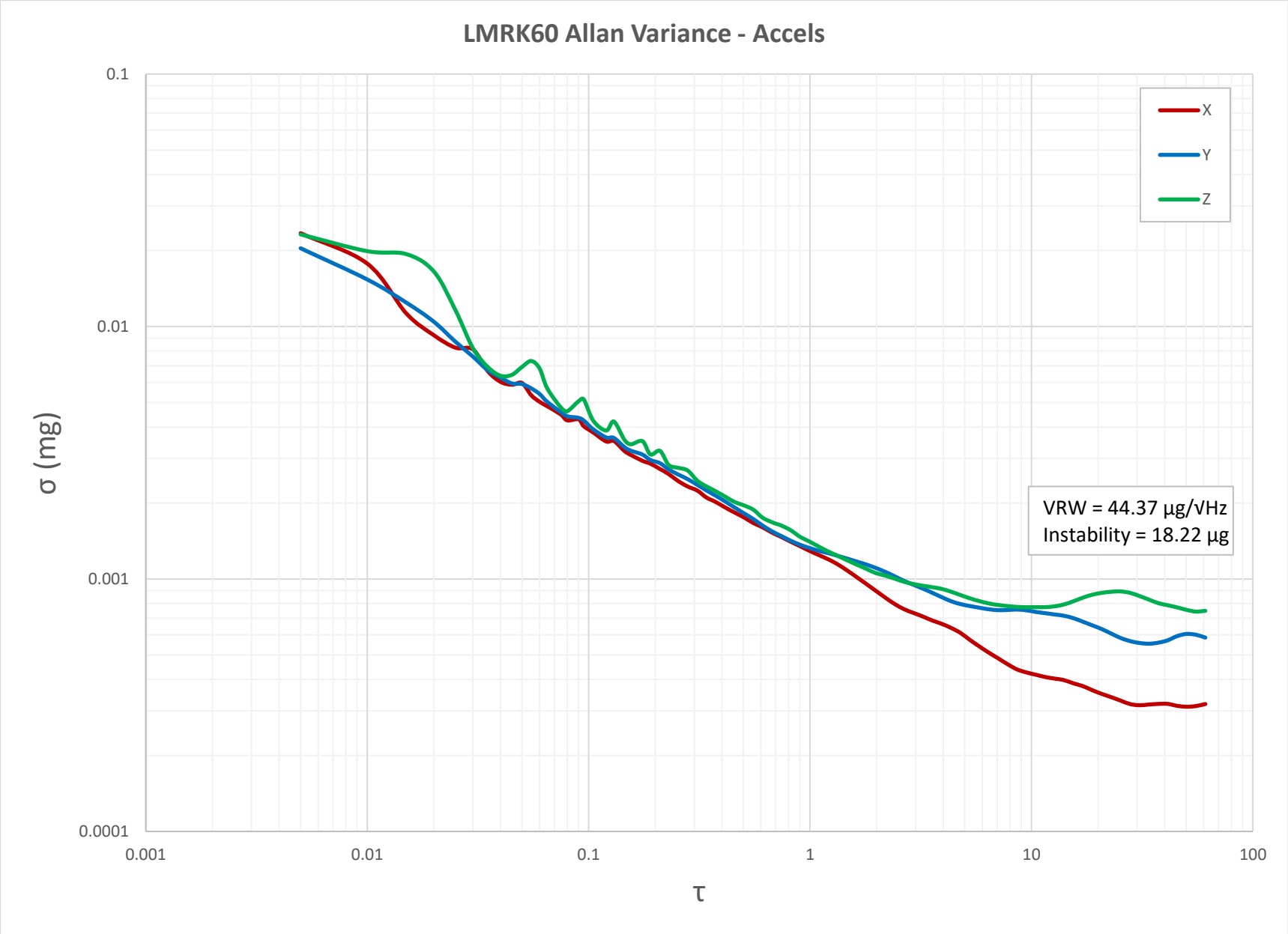
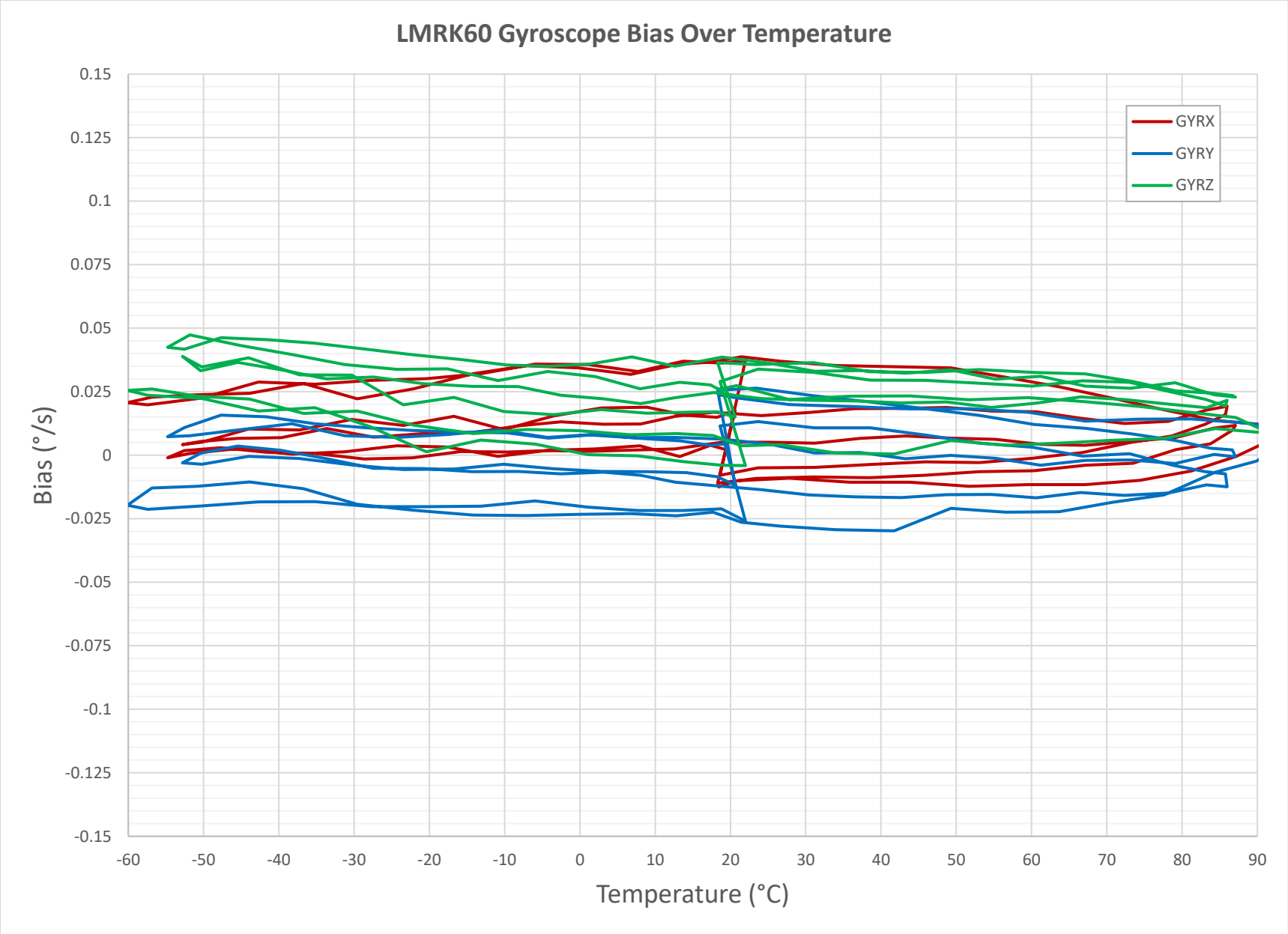
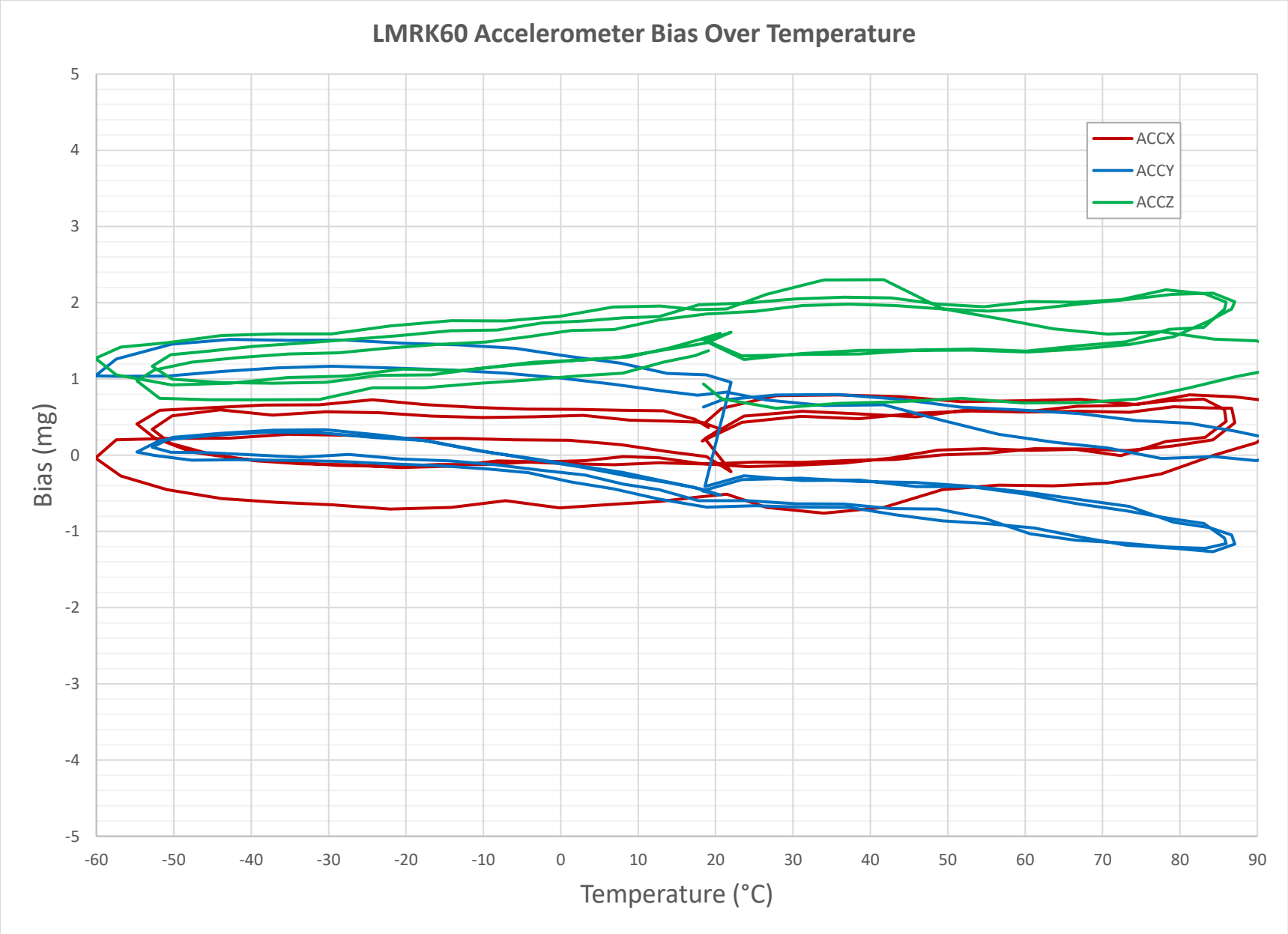
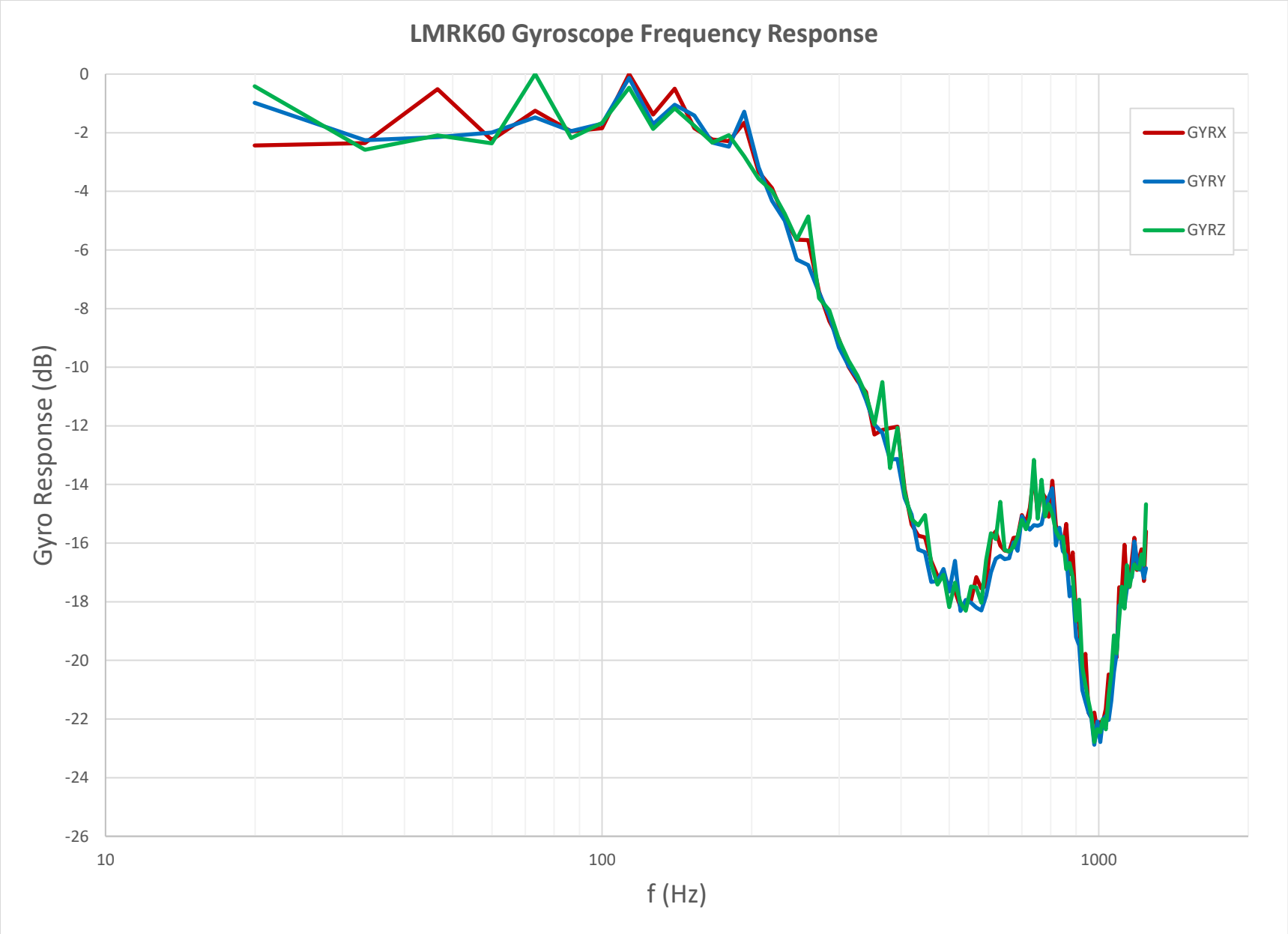

LMRK60 Allan Variance - Accels
0.1
0.01
0.001
0.0001
σ (mg)
0.001
0.01
0.1
1
10
100
τ
X
Y
Z
VRW = 44.37 µg/√Hz
Instability = 18.22 µg


LMRK60 Gyroscope Bias Over Temperature
GYRX
GYRY
GYRZ
Bias (°/s)
0.15
0.125
0.1
0.075
0.05
0.025
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
Temperature (°C)


LMRK60 Accelerometer Bias Over Temperature
ACCX
ACCY
ACCZ
Bias (mg)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
Temperature (°C)



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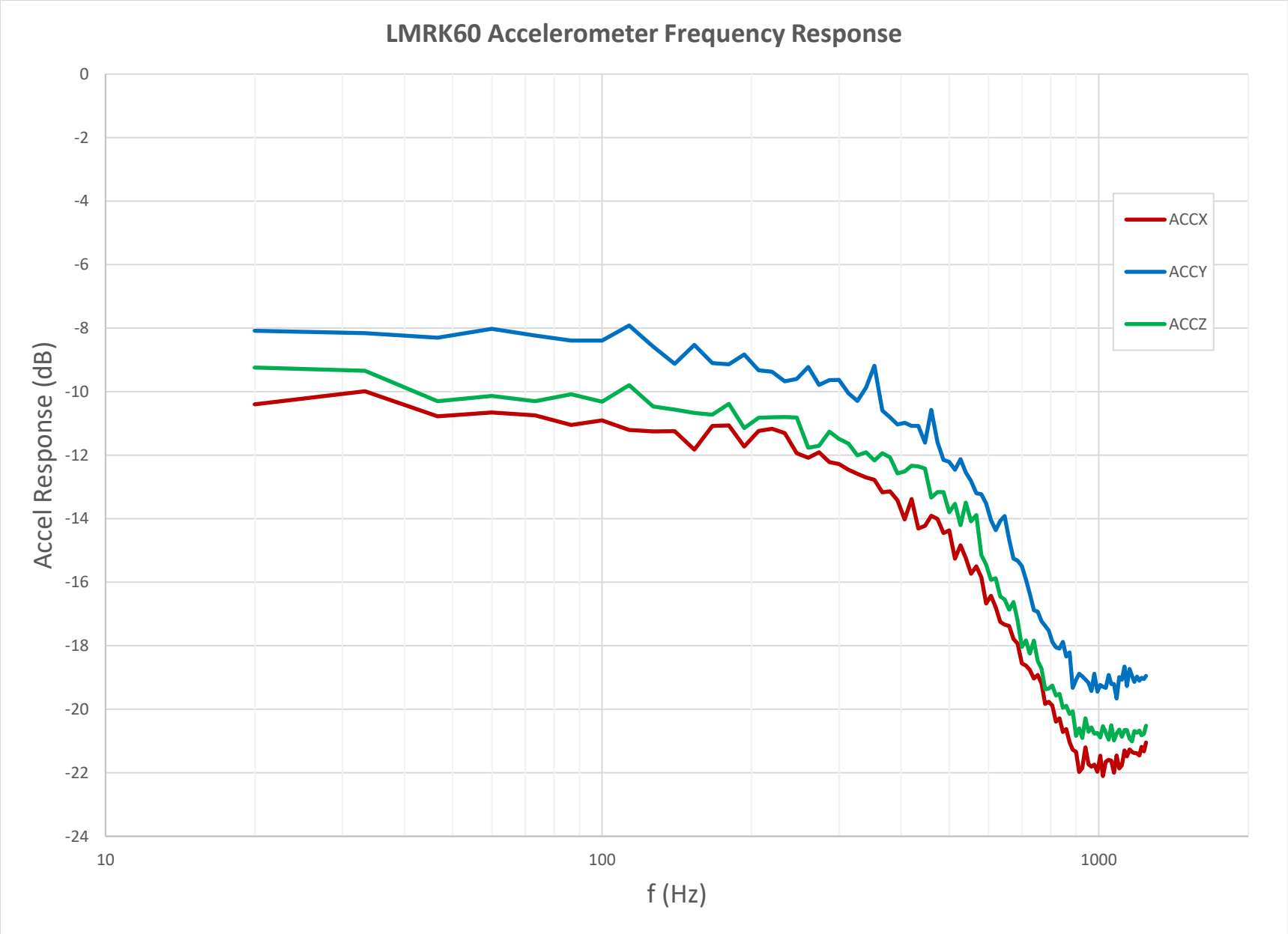
LMRK60 Accelerometer Frequency Response
Accel Response (dB)
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
10
100
1000
f (Hz)
ACCX
ACCY
ACCZ