Thruster Report

Magnetic Field: **500 mT**
Anode Power: **302 W**
Anode Current: **4.0 A**
Propellant: **Argon 2.000 mg/s**

Thruster Details: Nagoya magnet, LaB6 cathode, 1 mm orifice, copper anode, 80 mm internal diameter.

Thrust	Thrust Eff.	ISP	Total DOF	Coverage Factor	Exp. Uncertainty	Std. Uncertainty
9.6 mN	7.7 %	490.4 sec	19	2.09	2.3 mN	1.1 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.7 mN	0.4 mN	0.2 mN	0.3 mN	0.5 mN	0.4 mN
DOF	6	6	6	31	4	4

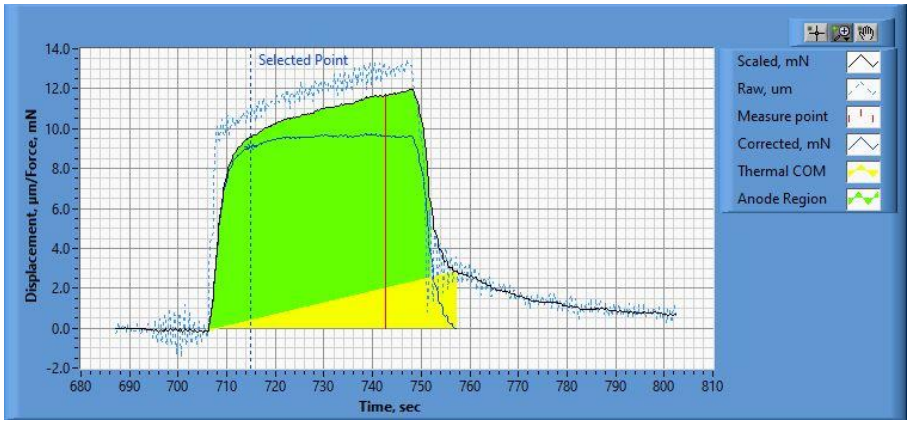

Figure 1. Thrust Plot

File Name: Philtech Data 2024.09.19_10.34.16.csv

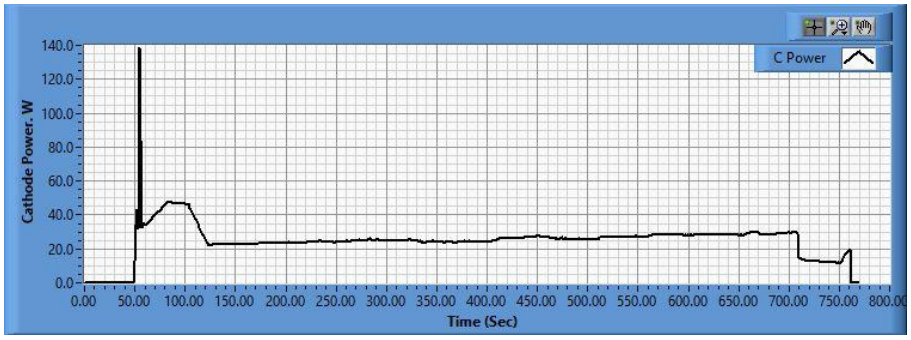

Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.09.19_10.34.14.csv

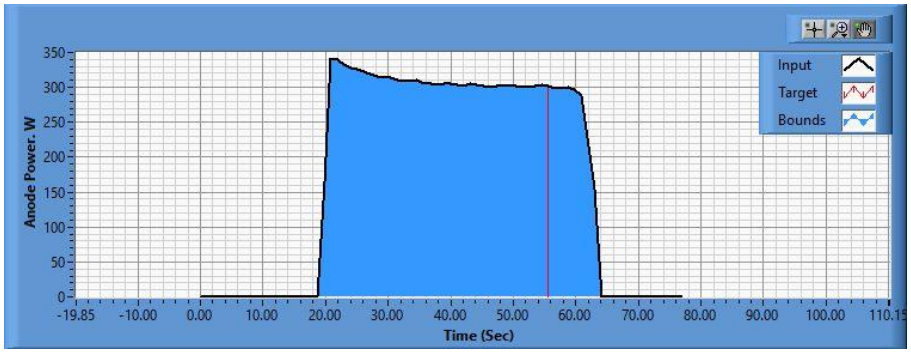

Figure 3. Anode Power Plot

File Name: PSU A Data 2024.09.19_10.45.43.csv

Pre-Cal. Information

File Name: Baseline_Magnet_Philtech Data 2024.09.19_09.21.44.csv

Start/Stop times (24 h): 09:21:55 09:25:40
Sensitivity: 1.32 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
0.240 mN	-0.013 mN/s	0.756	0.834 mN

Plateau values:

Weight 0	Weight 1	Weight 2	Weight 3	Weight 4	Weight 5	Weight 4	Weight 3	Weight 2	Weight 1	Weight 0
-0.2 mN	13.2 mN	26.9 mN	41.8 mN	52.9 mN	68.0 mN	52.7 mN	41.3 mN	26.7 mN	12.4 mN	-0.0 mN

Post-Cal. Information

File Name: Philtech Data 2024.09.19_10.34.16.csv

Start/Stop times (24 h): 10:50:07 10:53:52
Sensitivity: 1.30 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-1.009 mN	0.000 mN/s	0.770	0.833 mN

Plateau values:

Weight 0	Weight 1	Weight 2	Weight 3	Weight 4	Weight 5	Weight 4	Weight 3	Weight 2	Weight 1	Weight 0
-0.2 mN	13.0 mN	27.8 mN	41.6 mN	53.7 mN	68.0 mN	52.6 mN	41.4 mN	27.0 mN	12.9 mN	0.8 mN