Thruster Report

Magnetic Field: 750 mT Anode Power: 188 W Anode Current: 2.0 A

Propellant: Argon 1.999 mg/s

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

Ī	Thrust	Thrust Eff.	ISP	Total DOF	Coverage	Exp.	Std.
					Factor	Uncertainty	Uncertainty
Ī	4.7 mN	3.0 %	241.1 sec	13	2.11	3.2 mN	1.5 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.7 mN	0.6 mN	0.2 mN	0.3 mN	0.5 mN	1.1 mN
DOF	6	6	6	31	4	4

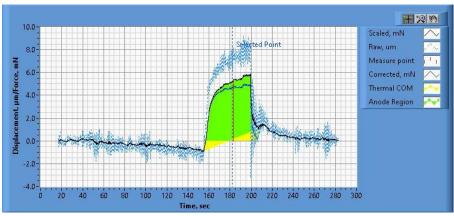


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.25_18.46.20.csv

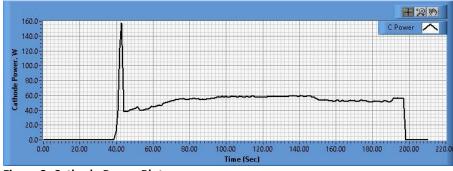


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.25_18.46.30.csv

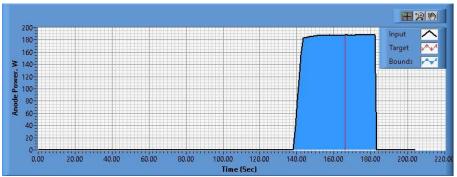


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.25_18.46.37.csv

Pre-Cal. Information

File Name: Magnet_Flow_2_0_Philtech Data 2024.11.22_15.27.11.csv

Start/Stop times (24 h): 15:27:21 15:31:06

Sensitivity: 1.62 um/mN

Offset	Offset Drift		Scale Std.Dev		
0.798 mN	0.003 mN/s	0.617	0.925 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0.1 mN | 20.9 | 39.2 | 59.8 | 80.9 | 101.1 | 80.1 | 59.1 | 38.7 | 20.6 | 1.0 mN |
| | mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.25_18.46.20.csv

Start/Stop times (24 h): 18:52:56 18:56:50

Sensitivity: 1.68 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.939 mN	-0.031 mN/s	0.596	1.125 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 20.8 | 38.0 | 60.0 | 80.0 | 100.9 | 80.2 | 60.0 | 38.8 | 22.1 | 0.4 mN |
| mN | |

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