Thruster Report

Magnetic Field: 1000 mT Anode Power: 1004 W Anode Current: 8.0 A

Propellant: Argon 1.999 mg/s

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

	Thrust	Thrust Eff.	ISP	Total DOF	Coverage	Exp.	Std.
					Factor	Uncertainty	Uncertainty
Γ	25.3 mN	16.0 %	1292.3 sec	14	2.11	4.1 mN	1.9 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.7 mN	0.6 mN	0.4 mN	0.3 mN	1.1 mN	1.3 mN
DOF	6	6	6	31	4	4

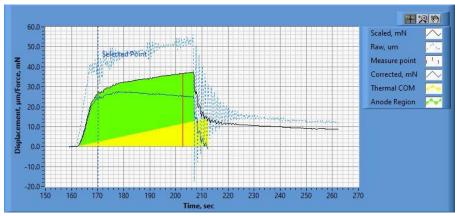


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.21_17.27.09.csv

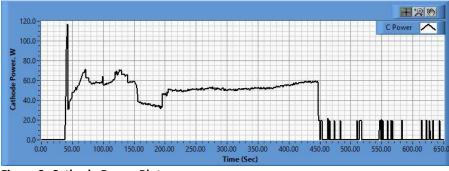


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.21_17.27.20.csv

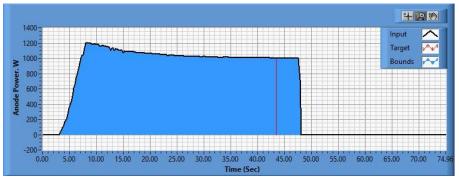


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.21_17.29.48.csv

Pre-Cal. Information

File Name: MagnetOn_Flow_2_0_Philtech Data 2024.11.20_13.22.28.csv

Start/Stop times (24 h): 13:22:50 13:26:34

Sensitivity: 1.66 um/mN

	Offset Drift		Scale Factor	Scale Std.Dev		
C).137 mN	0.000 mN/s	0.601	1.019 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0.0 mN | 22.3 | 40.0 | 61.1 | 81.2 | 101.2 | 80.4 | 60.4 | 39.0 | 22.1 | 0.5 mN |
| | mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.21_17.27.09.csv

Start/Stop times (24 h): 17:33:57 17:37:33

Sensitivity: 1.72 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-6.138 mN	-0.040 mN/s	0.581	1.321 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 2.4 mN | 20.3 | 38.2 | 61.0 | 81.8 | 101.2 | 80.4 | 59.7 | 39.3 | 21.3 | 1.4 mN |
| | mN | |

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