Thruster Report

Magnetic Field: 265 mT
Anode Power: 536 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
12.7 mN	7.6 %	649.3 sec	17	2.09	2.4 mN	1.2 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.9 mN	0.5 mN	0.2 mN	0.5 mN	0.2 mN	0.1 mN
DOF	6	6	6	31	4	4

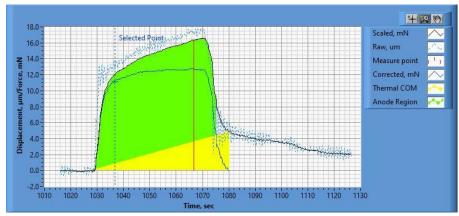


Figure 1. Thrust Plot

File Name: Philtech Data 2024.09.17_15.35.44.csv

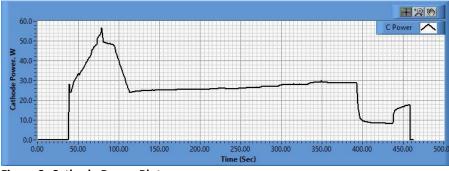


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.09.17_15.46.20.csv

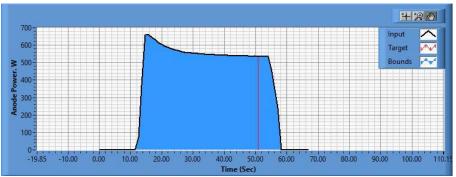


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.09.17_15.52.40.csv

Pre-Cal. Information

File Name: BaseLine_Magnet_Philtech Data 2024.09.17_13.36.23.csv

Start/Stop times (24 h): 13:36:24 13:40:10

Sensitivity: 1.27 um/mN

Offset	Offset Drift		Scale Std.Dev		
-0.404 mN	-0.003 mN/s	0.786	0.872 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.1 | 12.9 | 27.2 | 41.3 | 52.8 | 67.9 | 52.0 | 40.5 | 26.8 | 12.6 | 0.3 mN |
| mN | |

Post-Cal. Information

File Name: PostThrust Philtech Data 2024.09.17_15.35.44.csv

Start/Stop times (24 h): 15:35:45 15:39:30

Sensitivity: 1.26 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-0.087 mN	-0.000 mN/s	0.794	1.054 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.0 | 12.8 | 28.4 | 41.9 | 53.2 | 68.0 | 52.3 | 41.3 | 27.2 | 12.0 | 0.2 mN |
| mN | |

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