Thruster Report

Magnetic Field: 199 mT Anode Power: 128 W Anode Current: 2.0 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	
				Tactor	Officertainty	Officertainty	
2.3 mN	1.1 %	119.5 sec	13	2.11	2.8 mN	1.3 mN	

Thrust-Stand Uncertainty Components

	Scale		Scale Hysteresis Repeatability		Noise	Offset	Drift
Value	Value 1.1 mN 0.		0.2 mN	0.4 mN	0.2 mN	0.2 mN	
DOF	6	6	6	31	4	4	

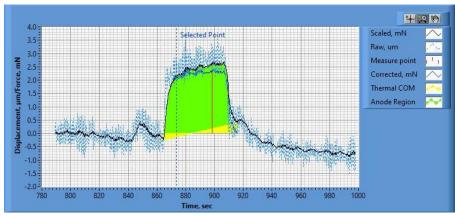


Figure 1. Thrust Plot

File Name: Philtech Data 2024.09.18_09.33.37.csv

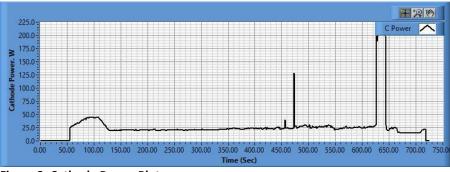


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.09.18_09.36.57.csv

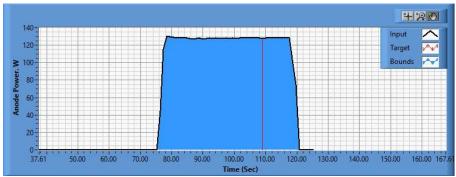


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.09.18_09.46.46.csv

Pre-Cal. Information

File Name: BaseLine_with_Magnet_Philtech Data 2024.09.18_09.28.52.csv

Start/Stop times (24 h): 09:29:04 09:32:49

Sensitivity: 1.29 um/mN

Offset	Offset Drift		Scale Std.Dev	
-0.836 mN	-0.836 mN 0.009 mN/s		1.150 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.6 | 13.1 | 27.7 | 40.9 | 51.9 | 67.9 | 51.3 | 40.6 | 26.7 | 12.6 | -0.1 |
| mN |

Post-Cal. Information

File Name: Philtech Data 2024.09.18_09.33.37.csv

Start/Stop times (24 h): 09:52:17 09:56:02

Sensitivity: 1.29 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
2.284 mN	0.002 mN/s	0.775	1.198 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.4 | 13.1 | 27.6 | 40.8 | 51.6 | 68.0 | 51.2 | 40.7 | 26.7 | 12.6 | -0.0 |
| mN |

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