Thruster Report

Magnetic Field: 1000 mT Anode Power: 1729 W Anode Current: 10.0 A

Propellant: Argon 1.500 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	Coverage Exp. St	
					Factor	Uncertainty	Uncertainty
ĺ	26.8 mN	13.8 %	1820.3 sec	19	2.09	3.1 mN	1.5 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.7 mN	0.7 mN	0.4 mN	0.4 mN	0.2 mN	0.9 mN
DOF	6	6	6	31	4	4

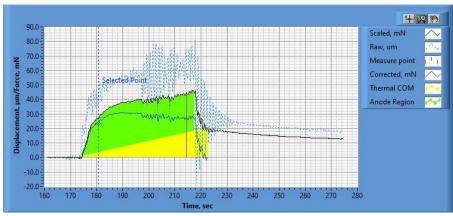


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.20_21.27.42.csv

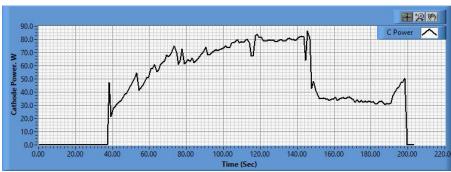


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.20_21.28.08.csv

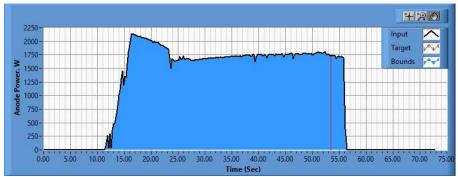


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.20_21.30.23.csv

Pre-Cal. Information

File Name: Philtech Data 2024.11.20_13.17.51.csv

Start/Stop times (24 h): 13:18:06 13:21:51

Sensitivity: 1.67 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
-0.107 mN	-0.000 mN/s	0.600	0.921 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.4 | 21.5 | 39.6 | 60.7 | 81.0 | 101.2 | 79.8 | 59.8 | 38.5 | 21.4 | -0.0 |
| mN |

Post-Cal. Information

File Name: Philtech Data 2024.11.20_21.27.42.csv

Start/Stop times (24 h): 21:34:44 21:38:38

Sensitivity: 1.74 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-7.760 mN	-0.028 mN/s	0.576	1.334 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0.0 mN | 19.9 | 36.7 | 58.2 | 79.5 | 101.0 | 79.4 | 59.0 | 38.4 | 20.9 | 0.1 mN |
| | mN | |

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