Thruster Report

Magnetic Field: 750 mT
Anode Power: 992 W
Anode Current: 8.0 A

Propellant: Argon 1.499 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
21.6 mN	15.7 %	1470.4 sec	20	2.08	2.9 mN	1.4 mN

Thrust-Stand Uncertainty Components

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

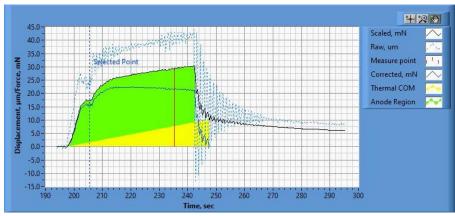


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.23_20.34.10.csv

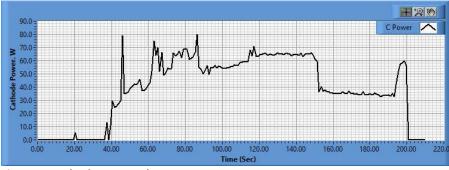


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.23_20.34.58.csv

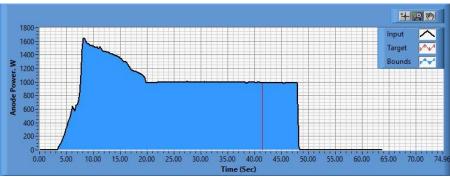


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.23_20.37.24.csv

Pre-Cal. Information

File Name: Magnet_Flow_1_5_Philtech Data 2024.11.22_15.22.48.csv

Start/Stop times (24 h): 15:22:54 15:26:39

Sensitivity: 1.61 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
0.250 mN	0.000 mN/s	0.621	0.968 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.3 | 20.7 | 39.0 | 59.4 | 80.6 | 100.9 | 80.1 | 59.0 | 38.7 | 20.6 | 1.1 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.23_20.34.10.csv

Start/Stop times (24 h): 20:41:34 20:45:18

Sensitivity: 1.68 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-3.781 mN	-0.020 mN/s	0.594	1.043 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.5 | 20.4 | 38.0 | 59.4 | 80.1 | 100.9 | 79.0 | 59.3 | 38.6 | 21.2 | 0.2 mN |
| mN | |

25/11/2024 10:45 am

Created by: websteem

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