Thruster Report

Magnetic Field: 500 mT
Anode Power: 175 W
Anode Current: 2.0 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
Γ	3.5 mN	2.3 %	237.6 sec	21	2.08	2.8 mN	1.3 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.8 mN	0.7 mN	0.2 mN	0.2 mN	0.5 mN	0.6 mN
DOF	6	6	6	31	4	4

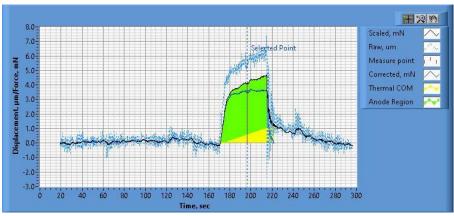


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.27_08.09.58.csv

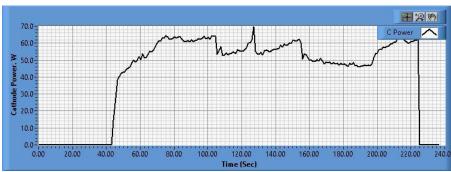


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.27_08.10.16.csv

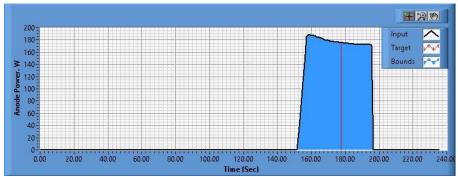


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.27_08.10.17.csv

Pre-Cal. Information

File Name: Magnet_Flow_1_5_Philtech Data 2024.11.26_19.35.05.csv

Start/Stop times (24 h): 19:35:33 19:39:18

Sensitivity: 1.59 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
-0.384 mN	0.001 mN/s	0.629	1.124 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 21.3 | 39.3 | 59.8 | 80.0 | 100.8 | 79.4 | 58.7 | 38.1 | 21.0 | 0.4 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.27_08.09.58.csv

Start/Stop times (24 h): 08:17:16 08:21:04

Sensitivity: 1.63 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev
-0.441 mN	-0.018 mN/s	0.615	1.057 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.6 | 21.6 | 39.1 | 59.9 | 80.0 | 101.0 | 79.1 | 59.8 | 38.9 | 21.4 | 0.4 mN |
| mN | |

Created by: glowacja 27/11/2024 9:40 pm Version: Analyser and Report Generator V191124