Thruster Report

Magnetic Field: 500 mT
Anode Power: 844 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
15.8 mN	9.9 %	1076.5 sec	22	2.08	2.9 mN	1.4 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.7 mN	0.7 mN	0.2 mN	0.5 mN	0.4 mN	0.8 mN
DOF	6	6	6	31	4	4

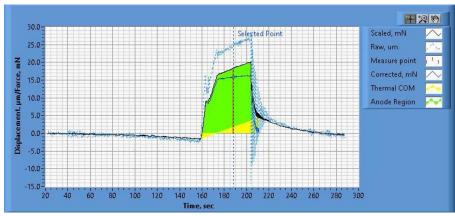


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.27_12.27.09.csv

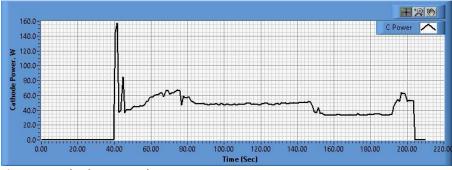


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.27_12.27.21.csv

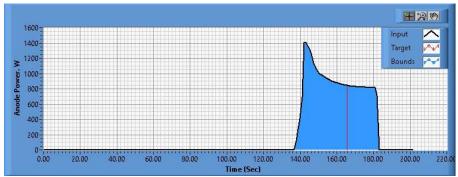


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.27_12.27.31.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_12.27.09.csv

Start/Stop times (24 h): 12:33:41 12:37:25

Sensitivity: 1.61 um/mN

Ī	Offset	Drift	Scale Factor	Scale Std.Dev
	0.475 mN	-0.022 mN/s	0.621	1.063 mN

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0.1 mN | 21.1 | 38.7 | 59.9 | 79.7 | 100.9 | 79.4 | 59.7 | 38.3 | 21.0 | 0.6 mN |
| | mN | |

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