Thruster Report

Magnetic Field: 265 mT Anode Power: 135 W Anode Current: 2.0 A

Propellant: Argon 1.500 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
2.3 mN	1.3 %	157.2 sec	16	2.10	3.2 mN	1.5 mN

Thrust-Stand Uncertainty Components

	Scale F Value 0.5 mN		Repeatability	Noise	Offset	Drift
Value			0.3 mN	0.2 mN	0.8 mN	0.2 mN
DOF	6	6	6	31	4	4

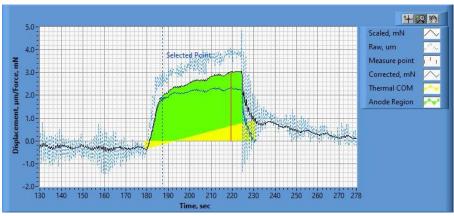


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.30_16.02.30.csv

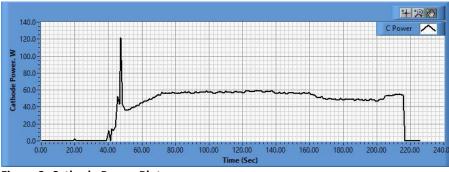


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.30_16.02.50.csv

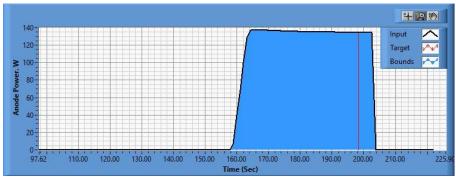


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.30_16.02.51.csv

Pre-Cal. Information

File Name: Magnet_Flow_1_5Philtech Data 2024.11.30_15.56.46.csv

Start/Stop times (24 h): 15:56:54 16:00:39

Sensitivity: 1.52 um/mN

Offset	Offset Drift		Scale Std.Dev		
-0.269 mN	-0.269 mN 0.005 mN/s		0.969 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 21.3 | 40.2 | 60.4 | 80.5 | 100.9 | 79.9 | 60.4 | 38.8 | 21.4 | 1.6 mN |
| mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.30_16.02.30.csv

Start/Stop times (24 h): 16:09:42 16:13:26

Sensitivity: 1.52 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.421 mN	-0.002 mN/s	0.658	0.969 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.1 | 21.3 | 40.0 | 60.5 | 80.3 | 101.1 | 79.4 | 60.0 | 38.5 | 21.1 | 0.9 mN |
| mN | |

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