Thruster Report

Magnetic Field: 199 mT Anode Power: 382 W Anode Current: 6.0 A

Propellant: Argon 2.000 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	Exp. Std	
					Factor	Uncertainty	Uncertainty
ſ	7.8 mN	4.0 %	397.2 sec	14	2.11	2.8 mN	1.3 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	1.1 mN	0.5 mN	0.2 mN	0.3 mN	0.2 mN	0.4 mN
DOF	6	6	6	31	4	4

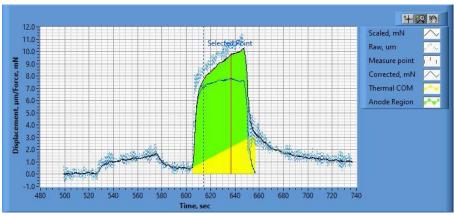


Figure 1. Thrust Plot

File Name: Philtech Data 2024.09.18_10.20.29.csv

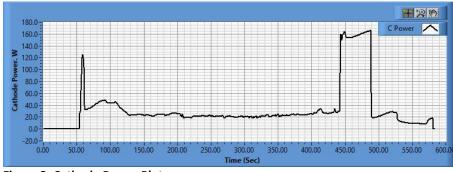


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.09.18_10.21.47.csv

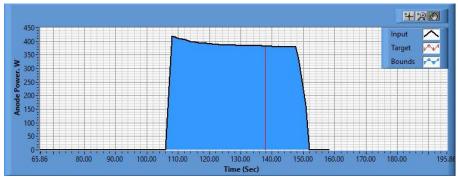


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.09.18_10.28.48.csv

Pre-Cal. Information

File Name: BaseLine_with_Magnet_Philtech Data 2024.09.18_09.28.52.csv

Start/Stop times (24 h): 09:29:04 09:32:49

Sensitivity: 1.29 um/mN

Offset	Offset Drift		Scale Std.Dev		
-0.836 mN	0.009 mN/s	0.777	1.150 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.6 | 13.1 | 27.7 | 40.9 | 51.9 | 67.9 | 51.3 | 40.6 | 26.7 | 12.6 | -0.1 |
| mN |

Post-Cal. Information

File Name: Philtech Data 2024.09.18_10.20.29.csv

Start/Stop times (24 h): 10:34:59 10:38:44

Sensitivity: 1.28 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-0.707 mN	-0.003 mN/s	0.780	1.151 mN	

Plateau values:

Weigh	Weight									
0	1	2	3	4	5	4	3	2	1	0
-0.5	12.9	28.0	41.1	52.0	67.8	51.3	40.5	26.5	11.9	-0.7
mN	mN	mN	mN	mN	mN	mN	mN	mN	mN	mN

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