Thruster Report

Magnetic Field: 1000 mT Anode Power: 475 W Anode Current: 4.0 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
Ī	12.4 mN	8.0 %	629.8 sec	14	2.11	3.7 mN	1.7 mN

Thrust-Stand Uncertainty Components

	Scale	Hysteresis	Repeatability	Noise	Offset	Drift
Value	0.8 mN	0.6 mN	0.3 mN	0.6 mN	0.3 mN	1.2 mN
DOF	6	6	6	31	4	4

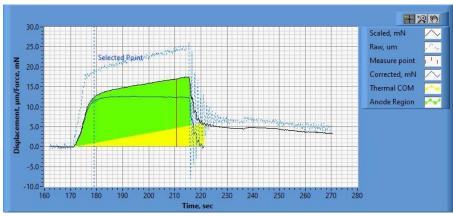


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.21_07.35.40.csv



Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.21_07.36.03.csv

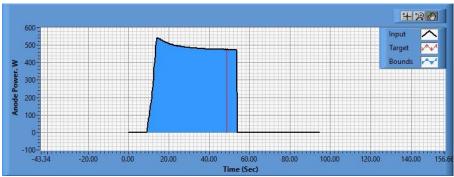


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.21_07.38.22.csv

Pre-Cal. Information

File Name: MagnetOn_Flow_2_0_Philtech Data 2024.11.20_13.22.28.csv

Start/Stop times (24 h): 13:22:50 13:26:34

Sensitivity: 1.66 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
0.137 mN	0.000 mN/s	0.601	1.019 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| 0.0 mN | 22.3 | 40.0 | 61.1 | 81.2 | 101.2 | 80.4 | 60.4 | 39.0 | 22.1 | 0.5 mN |
| | mN | |

Post-Cal. Information

File Name: Philtech Data 2024.11.21_07.35.40.csv

Start/Stop times (24 h): 07:43:02 07:46:44

Sensitivity: 1.72 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-1.890 mN	-0.038 mN/s	0.580	0.989 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 20.5 | 38.2 | 60.4 | 81.2 | 101.0 | 80.0 | 59.7 | 37.9 | 20.7 | -0.1 |
| mN |

21/11/2024 3:27 pm

Created by: websteem

Version: Analyser and Report Generator V191124