Thruster Report

Magnetic Field: 1000 mT Anode Power: 510 W Anode Current: 4.0 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
12.8 mN	10.8 %	873.8 sec	14	2.10	3.3 mN	1.6 mN

Thrust-Stand Uncertainty Components

	Scale		Repeatability	Noise	Offset	Drift
Value	0.9 mN	0.4 mN	0.2 mN	0.3 mN	0.6 mN	1.0 mN
DOF	6	6	6	31	4	4

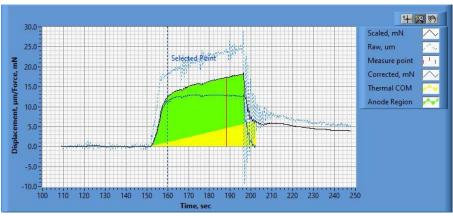


Figure 1. Thrust Plot

File Name: Philtech Data 2024.11.13_10.24.01.csv

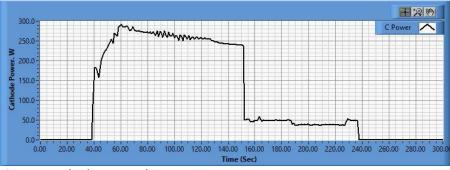


Figure 2. Cathode Power Plot

File Name: PSU C Data 2024.11.13_10.23.30.csv

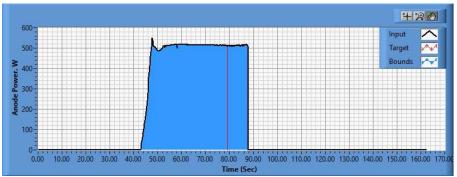


Figure 3. Anode Power Plot

File Name: PSU A Data 2024.11.13_10.25.50.csv

Pre-Cal. Information

File Name: Philtech Data 2024.11.13_10.10.01.csv

Start/Stop times (24 h): 10:10:05 10:13:50

Sensitivity: 1.57 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev		
-0.100 mN	0.000 mN/s	0.635	0.995 mN		

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.2 | 21.3 | 38.4 | 60.4 | 80.5 | 100.8 | 79.9 | 59.8 | 37.9 | 20.5 | -0.1 |
| mN |

Post-Cal. Information

File Name: Philtech Data 2024.11.13_10.24.01.csv

Start/Stop times (24 h): 10:30:49 10:34:35

Sensitivity: 1.69 um/mN

Offset	Drift	Scale Factor	Scale Std.Dev	
-2.477 mN	-0.031 mN/s	0.593	1.164 mN	

Plateau values:

| Weight |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 3 | 4 | 5 | 4 | 3 | 2 | 1 | 0 |
| -0.6 | 21.6 | 38.8 | 61.0 | 82.0 | 101.2 | 80.5 | 59.7 | 38.4 | 21.7 | 0.8 mN |
| mN | |

21/11/2024 8:49 am

Created by: websteem

Version: Analyser and Report Generator V191124