MTW Performance Envelope

Spherical Target Chamber Vacuum Performance and Pump-down Curves

*Data recorded on 01/20/2024

All Diagnostic Ports blanked off except: Ports 1 (Hexapod), 6 (XTAL), 7, 10 (TPS Cams), 14, 21 (TPS Flashers), and 4 (Pinhole Cam)

Gauges used:

*Single Gauge:* Pfeiffer D-35614 Asslar

*Dual Gauge:* Pfeiffer Compact Full Range Gauge, PKR-251

Full Pump Pressure Test – Backing Pump and TMP motor ON

Chamber Base Pressure: $\text{7.4 E-5 mbar}$ (Dual Gauge)

Pumping Time to Base Pressure: 11:00 min

Chamber Operating Pressure: $\text{< 5 E-4 mbar}$ (Single Gauge)

Pumping Time to Operating Pressure: 9:30 min
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**Backing Pump Pressure Test** – TMP Motor OFF

![Graph showing backing pump pressure test results](image)

- **Back** **ing Pump Base Pressure**: 1.9 mbar (Single and Dual Gauge)
- **Pumping Time to Base Pressure**: 20 min