

NAR OFFICIAL CERTIFICATION LABORATORY

MODEL ROCKET ENGINE TESTING REPORT

Manufacturer and Type: AEROTECH G54

Effective Dates: NAR Certification: July 6, 1997 Contest Use: Sept 4, 1997

Certified Total Impulse (N-sec): 85.00 Delay Times: 6, 10, 14

Propellant Type: Composite Propellant Mass (gm): 46.0

Casing Diameter (mm): 29 Casing Length (mm): 124

----- STATIC TEST DATA -----

Number Tested: 11

Casing Date Codes:

Date Tested: July 5, 1997 Test Temp (°c): Elevation (ft): 200

Total Impulse (N-sec): 81.05 std. deviation: 0.66

Peak Thrust (newtons): 81.64 std. deviation: 2.19

Burn Time (seconds): 1.51 std. deviation: 0.08

Casing Burnt Mass (gm): 84.2 Max Casing External Temp (°c): under 200

Delay Time (sec)	6	10	14
Initial Mass (gm)	135.8	136.2	137.4
Avg. Measured Delay	6.22	8.99	13.32

Remarks: Uses AEROTECH RMS-29/100 Reload System and AEROTECH G54 reload kit. No substitutions allowed.

Typical Thrust - Time Curve:

