

JUL 2010 RECONDITIONED

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 9/8/10
 INITIALS: PDC
 PUMP# (add x,y,z,R): Z29010x
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 76
 3. PUMP PRESSURE: 13
 4. ENSCI Press/vac: -
 5. Bypass cell (✓)
 6. Add 5-6cc cathode (✓)
 7. 30 MINUTES HI O₃ (✓)
 8. 3 MINUTES NO O₃ (✓)
-
9. DUMP CATHODE RINSE: (✓)
 10. ADD 3.0 CC FRESH CATHODE # 201
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT: = 0.01 μamps
 14. RUN 10 MINUTES on 5 μamps O₃ (✓) - then switch to NO O₃ AIR.
 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: 21.43 sec.
 16. Run sonde for 10 minutes on NO O₃ AIR (✓)
 17. Short the cell leads: (✓)
 18. intake tube stored in sonde frame: (✓)
 19. Place Instrument inside plastic bag: (✓)
 20. Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): _____

- 5 MINUTES on NO O₃ (✓)
- RECORD CURRENT: _____ μamps
- RUN 5 MINUTES on 5 μamps O₃ (✓) - then switch to NO O₃ AIR.
- TIME TO DROP FROM 4 TO 1.5 μamps: _____ sec. RUN 5 minutes:

0.012 29.27
62 sec 29.82
99/100 29.28
 29.28
 29.28

FLIGHT PREPARATION IN LAB.

TEST UNIT T100 flow : _____
ENSCI label air flow (s/100ml) : _____

DATE (LOCAL): 10-9-2010
INITIALS: SC

T100 FLOWRATE TIMES:

Cathode solution # or date written on bottle: 6-21-2010
 CHANGE CATHODE SOLUTION (3cc): (✓)
 CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 RUN ON NO O₃ FOR 10 MINUTES: (✓)
 RECORD THE NO O₃ BACKGRND#1: BG1 = 0.009 μamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
 SWITCH TO NO O₃ AIR.

FLOWRATE #1: 29.33 sec
 FLOWRATE #2: 29.27
 FLOWRATE #3: 29.36
 FLOWRATE #4: 29.22
 FLOWRATE #5: 29.33
 AVERAGE T100: 29.30

Dry 1: 27.67
2: 27.67
3: 27.73
Avg: 27.69

Wet 1: 28.15
2: 28.13
3: 28.25
Avg: 28.18

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 28.37 sec.
 RECORD: ROOM TEMP (C) 21.9 ROOM REL. HUMID. (%) 44% Flowrate Correction 1.77 % (Tables)
 RECORD: 5 - T100 FLOWRATE TIMES:

SONDE= _____ ppbv @ CALIB= _____

DAY OF FLIGHT @ THE LAUNCH SITE.

GAUGE Pressure: _____
VAISALA Pressure: _____

FLIGHT NUMBER: HU 645
 GMT DATE (YYMMDD): 10/9/2010
 GMT LAUNCH TIME: 17:55:30
 BALLOON TYPE 800 Gram: Kaymont Scientific Sales (✓one)

LOCAL DATE: 10/9/2010
 LOCAL TIME: 12:55:30

O₃ BACKGROUND (μamps): _____
 VAISALA NUMBER (9 digit): 01F225543
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____

SKY CONDITIONS: Clear
 Burst: 30.39 km

REMARKS: _____

Ventilation Holes: _____

weighoff = _____ grams