

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 06 JUL 16
INITIALS: PS
PUMP#: 2730976

- 1. Run zero air 10 minutes (✓)
- 2. PUMP CURRENT: 93.89 (mA)
- 3. PUMP PRESSURE: >10 (psi)
- 4. DMT Press/vac: 25 / 19 (in Hg)
- 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 # 262
- 11. ADD 1.5 CC ANODE SOLUTION: (✓)
- 12. RUN 10 MINUTES on NO O₃ (✓)
- 13. RECORD CURRENT BEFORE O₃: BG = 0.680 μA
- 14. RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 52.93 sec.
- 16. Run sonde for 10 mins on NO O₃ (✓)
- 17. RECORD CURRENT: BG = 0.503 uA
- 18. Short the cell leads: (✓)
- 19. Intake tube stored in sonde frame: (✓)
- 20. Place Sonde inside plastic bag: (✓)
- 21. Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 14 JUL 16

- 1. RUN 5 MINS on NO O₃ (✓)
- 2. RECORD CURRENT: 0.155 μamps
- 3. RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
- 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 25.61 sec
- 5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/16/2016
INITIALS: BW

- 1. Cathode solution # or date written on bottle: Oct 21, 2015
- 2. CHANGE CATHODE SOLUTION (3cc): (✓)
- 3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
- 4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
- 5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.044 μamps
- 6. RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
- 7. SWITCH TO NO O₃ AIR
- 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 20.09 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 26.8, ROOM RH (%): 47
Flowrate Correction: 1.3 (%)

- FLOWRATE #1: 28.72 sec
- FLOWRATE #2: 28.68 sec
- FLOWRATE #3: 28.54 sec
- FLOWRATE #4: 28.61 sec
- FLOWRATE #5: 28.45 sec

AVERAGE T100: 28.6 sec

dry 29.92 29.89 29.97 29.93
WPT 30.35 30.20 30.37 30.31
Average

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU978
GMT DATE (YYMMDD): 160716
GMT LAUNCH TIME: _____
Operator Initials: BW

LOCAL DATE: 160716
LOCAL TIME: 1:30PM

BALLOON SIZE: 1800 Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____ O₃ Ventilation Holes: _____
O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)

Radiosonde sn: _____ Freq: _____ (MHz)

NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

SURFACE PRES: _____ (hPa)
SURFACE TEMP: _____ (C)
SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: Bad radiosonde (negative humidity, frostpoint temp and H₂O mixing ratio before launch). Ozonesonde value seems good.
I replaced both sondes before launch and that works.