

Seacions August 2013

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/07/2013
 INITIALS: NLP
 PUMP# (add x,y,z,R): 2227634

1. Run zero air 10 minutes (v)
 2. PUMP CURRENT: 102.53
 3. PUMP PRESSURE: >10
 4. ENSCI Press/vac: 28/20 in Hg

5. Bypass cell (v)
 6. Add 5-6cc cathode (v)
 7. 30 MINUTES HI O₃ (v)
 8. 3 MINUTES NO O₃ (v)

9. DUMP CATHODE RINSE: (v)
 10. ADD 3.0 CC FRESH CATHODE # (v)
 11. ADD 1.5 CC ANODE SOLUTION: (v)
 12. RUN 10 MINUTES on NO O₃ (v)
 13. RECORD CURRENT: BG = 0.170 μ amps
 14. RUN 10 MINUTES on 5 μ amps O₃ (v) - then switch to NO O₃ AIR.
 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 29,69 sec.

16. Run sonde for 10 minutes on NO O₃ AIR (v)
 17. Short the cell leads: (v)
 18. Intake tube stored in sonde frame: (v)
 19. Place Instrument inside plastic bag: (v)
 20. Store inside Styrofoam flight box: (v)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 09/09/2013/20.72

1. Replace Cathode/Anode (v)
 2. RUN 5 MINS on NO O₃ (v)
 3. RECORD CURRENT: 0.062 μ amps
 4. RUN 5 MINS on 5 μ amps O₃ (v)
 5. Switch to NO O₃ AIR

6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 24.00 sec
 7. RUN 5 MINS on NO O₃ (v)
 8. Short cell leads (v)
 9. Store inside Styrofoam flight box: (v)

0.0247
09/13/2013
NLP

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/16/2013
 INITIALS: NLP

T100 FLOWRATE TIMES:

1. Cathode solution # or date written on bottle: 239
 2. CHANGE CATHODE SOLUTION (3cc): (v)
 3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 4. RUN ON NO O₃ FOR 10 MINUTES: (v)
 5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.018 μ amps
 6. RUN ON 5 microamps of O₃ for 10 Minutes: (v)
 7. SWITCH TO NO O₃ AIR.
 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 20,70 sec
 9. RECORD: 5 - T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.6, ROOM RH (%): 39
 Flowrate Correction: 1.82 (%)
 FLOWRATE #1: 28.40 sec
 FLOWRATE #2: 28.34 sec
 FLOWRATE #3: 28.27 sec
 FLOWRATE #4: 28.39 sec
 FLOWRATE #5: 28.48 sec
 *AVERAGE T100: 28.38 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 827
 GMT DATE (YYMMDD): 09/16/2013 LOCAL DATE: 09/16/2013
 GMT LAUNCH TIME: 16:35 LOCAL TIME: 11:35

Operator Initials: WTC
 BALLOON SIZE: 1200 Grams: TOTEX Hwoyee (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 36.21 (km)

O₃ sn: 2224634 O₃ CELL BACKGROUND (μ amps): 0.018
 O₃ Flowrate: 28.38 (sec) O₃ Flowrate Correction: 1.82 (%)

Radiosonde s/n: 17496 Freq: 403 (MHz)

SURFACE PRES: 994.8 (hPa)
 SURFACE TEMP: 21 (C)
 SURFACE RH: 71.9 (%)

Sky Conditions: _____

REMARKS: _____