

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 4/24/2014
 INITIALS: WTC
 PUMP# (add x,y,z,R): 2225891
1. Run zero air 10 minutes ☒ (✓)
 2. PUMP CURRENT: 106.20
 3. PUMP PRESSURE: 711
 4. ENSCI Press/vac: 30/20 inHg
 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 # ☒ (✓)
 11. ADD 1.5 CC ANODE SOLUTION: ☒ (✓)
 12. RUN 10 MINUTES on NO O₃ ☒ (✓)
 13. RECORD CURRENT: BG = 0.259 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: 50.87 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): 5/2/2014

1. RUN 5 MINS on NO O₃ ☒ (✓)
2. RECORD CURRENT: 0.093 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: 28.18 sec
5. Short cell leads and Store in Styrofoam flight box: ☒ (✓)

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 5/10/2014
 INITIALS: WTC

1. Cathode solution # or date written on bottle: 239
2. CHANGE CATHODE SOLUTION (3cc): ☒ (✓)
3. CHANGE ANODE SOLUTION (1.5cc): ☒ (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: ☒ (✓)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.043 μamps
6. RUN ON 5 microamps of O₃ for 10 Minutes: ☒ (✓)
7. SWITCH TO NO O₃ AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 24.44 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25, ROOM RH (%): 39
 Flowrate Correction: 1.87 (%)

FLOWRATE #1:	<u>29.35</u> sec	<u>Wet</u>
FLOWRATE #2:	<u>29.05</u> sec	<u>29.45</u>
FLOWRATE #3:	<u>29.29</u> sec	<u>29.37</u>
FLOWRATE #4:	<u>29.22</u> sec	<u>29.35</u>
FLOWRATE #5:	<u>29.33</u> sec	<u>29.39</u>
AVERAGE T100:	<u>29.25</u> sec	<u>Dry</u>
		<u>28.93</u>
		<u>28.96</u>
		<u>28.77</u>
		<u>28.85</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)
 O₃ Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: Hu 864GMT DATE (YYMMDD): 140510LOCAL DATE: 140510

GMT LAUNCH TIME: _____

LOCAL TIME: _____

Operator Initials: WTC

BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee ☒ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: 29.5 (km) Turn/Burst: _____

O₃ sn: 2225891 O₃ CELL BACKGROUND (μamps): 0.043 O₃ Ventilation Holes: (Y/N) Y
 O₃ Flowrate: 29.25 (sec) O₃ Flowrate Correction: 1.87 (%)
 Radiosonde #: 26593 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
 NOAA FPH sn: _____
 Other instruments: _____

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____

$$\left(\left(\frac{\text{Wet}}{\text{Dry}} \right) - 1 \right) \times 100 = FC$$