

901

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1-8-2015
INITIALS: Qi
PUMP#: 215901
- | | |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| 2. PUMP CURRENT: <u>108.78</u> (mA) | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| 3. PUMP PRESSURE: <u>>10</u> (psi) | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| 4. DMT Press/vac: <u>26 / 21</u> (in Hg) | 8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (✓) |
-
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 BEFORE O₃: BG = 0.092 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: 32.03 sec.
16. Run sonde for 10 mins on NO O₃ (✓)
17. RECORD CURRENT: BG = 0.115 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): 1-14-15

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.046 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: 27.17 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 1-24-2015
INITIALS: BW
1. Cathode solution # or date written on bottle: Dec 1, 2014
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 = 0.013 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: 28.48 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:
- | | | | | |
|-----------------------------|--------------|--------------|--------------|----------------|
| <u>T100 FLOWRATE TIMES:</u> | | | | |
| ROOM TEMP (C): | <u>15.7</u> | ROOM RH (%): | <u>24</u> | |
| Flowrate Correction: | <u>2.8</u> | (%) | | |
| FLOWRATE #1: | <u>30.11</u> | sec | | |
| FLOWRATE #2: | <u>29.99</u> | sec | | |
| FLOWRATE #3: | <u>30.20</u> | sec | | |
| FLOWRATE #4: | <u>30.07</u> | sec | | |
| FLOWRATE #5: | <u>29.99</u> | sec | | |
| AVERAGE T100: | <u>30.07</u> | sec | | |
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>average</u> |
| <u>dry</u> | <u>28.51</u> | <u>28.73</u> | <u>28.70</u> | <u>28.65</u> |
| <u>wet</u> | <u>29.46</u> | <u>29.41</u> | <u>29.47</u> | <u>29.45</u> |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HV901
- GMT DATE (YYMMDD): 1-24-2015 LOCAL DATE: 1-24-2015
- GMT LAUNCH TIME: 7:06 LOCAL TIME: 1:06
- Operator Initials: _____
- BALLOON SIZE: _____ 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: _____