

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1/15/2016
INITIALS: SL
PUMP#: 2229319
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 91.48 (mA)
 3. PUMP PRESSURE: 711 (psi)
 4. DMT Press/vac: 26 / 119 (in Hg)
 5. Bypass cell (✓)
 6. Add 5-6cc cathode (✓)
 7. 30 MINUTES HI O₃ (✓)
 8. 3 MINUTES NO O₃ (✓)
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9. DUMP CATHODE RINSE: (✓)
 10. ADD 3.0 CC FRESH CATHODE # 261
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT BEFORE O₃: BG = 0.249 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: 40.97 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 0.204 μA
 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): 1/25/16

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: 0.96 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: 29.59 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/30/16
INITIALS: SL

1. Cathode solution # or date written on bottle: 262
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 = 0.042 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: 30.05 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 19.7, ROOM RH (%): 21
Flowrate Correction: 3.41 (%)

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|---------------|-----------------------|
| FLOWRATE #1: | <u>29.93</u> sec |
| FLOWRATE #2: | <u>29.85</u> sec |
| FLOWRATE #3: | <u>29.64</u> sec |
| FLOWRATE #4: | <u>29.64</u> sec |
| FLOWRATE #5: | <u>29.63</u> sec |
| AVERAGE T100: | <u>29.74</u> sec Avg, |

| | | | | |
|-----|--------------|--------------|--------------|--------------|
| dry | <u>27.91</u> | <u>27.73</u> | <u>27.97</u> | <u>27.87</u> |
| wet | <u>28.81</u> | <u>28.43</u> | <u>28.83</u> | <u>28.82</u> |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
GMT DATE (YYMMDD): _____ LOCAL DATE: _____
GMT LAUNCH TIME: _____ LOCAL TIME: _____
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: _____