

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1/15/2016
INITIALS: JL
PUMP#: 2229325
- Run zero air 10 minutes (v)
 - PUMP CURRENT: 105.42 (mA)
 - PUMP PRESSURE: >10 (psi)
 - DMT Press/vac: 33 / 21 (in Hg)
 - Bypass cell (v)
 - Add 5-6cc cathode (v)
 - 30 MINUTES HI O₃ (v)
 - 3 MINUTES NO O₃ (v)
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- DUMP CATHODE RINSE: (v)
 - ADD 3.0 CC FRESH CATHODE # 261
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT BEFORE O₃: BG = .127 μ A
 - RUN 10 MINS on 5 μ A O₃ (v) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 36.22 sec.
 - Run sonde for 10 mins on NO O₃ (v)
 - RECORD CURRENT: BG = .163 μ A
 - Short the cell leads: (v)
 - Intake tube stored in sonde frame: (v)
 - Place Sonde inside plastic bag: (v)
 - Store inside Styrofoam flight box: (v)

- AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 1/18/2016**
- RUN 5 MINS on NO O₃ (v)
 - RECORD CURRENT: .080 μ amps
 - RUN 5 MINS on 5 μ amps O₃ (v) - then switch to NO O₃ AIR
 - RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 25.96 sec
 - Short cell leads and Store in Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 1/25/2016
INITIALS: NL
- Cathode solution # or date written on bottle: 261
 - CHANGE CATHODE SOLUTION (3cc): (v)
 - CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 - RUN ON NO O₃ FOR 10 MINUTES: (v)
 - RECORD THE NO O₃ BACKGRND#1: BG1 = .024 μ amps
 - RUN ON 5 microamps of O₃ for 10 Minutes: (v)
 - SWITCH TO NO O₃ AIR
 - RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 23.29 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:*
ROOM TEMP (C): 20.4, ROOM RH (%): 17%
Flowrate Correction: 161 (%)
- | | | |
|---------------|---------------|-----|
| FLOWRATE #1: | <u>30.57</u> | sec |
| FLOWRATE #2: | <u>30.47</u> | sec |
| FLOWRATE #3: | <u>30.53</u> | sec |
| FLOWRATE #4: | <u>30.62</u> | sec |
| FLOWRATE #5: | <u>30.54</u> | sec |
| AVERAGE T100: | <u>30.546</u> | sec |
- | | | | | |
|-----|-------|-------|-------|--------------|
| dry | 28.62 | 28.86 | 28.81 | avg = 28.773 |
| wet | 29.31 | 29.27 | 29.13 | avg = 29.236 |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: H0953
GMT DATE (YYMMDD): _____ LOCAL DATE: 1/25/2016
GMT LAUNCH TIME: _____ LOCAL TIME: 9:29 a.m. - 13:50 pm
Operator Initials: JL
- BALLOON SIZE: 800 Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (v one)
PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: _____ (km) Turn/Burst: _____
- O₃ sn: _____ O₃ CELL BACKGROUND (μ amps): _____ 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: _____