US LAB Condensate Water Dump

US Lab Condensate Water Venting

Start GMT 12-January-2002, 012/15:00:04.882

NOTES:

- Vent Orientations:
  Lab2A: [0 -0.61 -0.79]
  Lab2B: [0 0.61 0.79]. (Space Station Analysis coordinates)

- Prior to water dump, ISS was maneuvered to an attitude that placed the vent in a retrograde position to minimize contamination,
  Yaw = 273.3,
  Pitch = 356.7,
  Roll = 307.0.

- Waste water is held in a Collapsible Water Container (CWC).

- During dump a crew member put a “bear hug” on the CWC to facilitate venting. Crew member observed good flow coming from PORT (2A) vent. Red box indicates largest venting effect.

- The means and RMS values per axis are tabulated below.

<table>
<thead>
<tr>
<th>Axis</th>
<th>Mean (µg)</th>
<th>RMS (µg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>1.83</td>
<td>1.87</td>
</tr>
<tr>
<td>Y</td>
<td>0.69</td>
<td>0.87</td>
</tr>
<tr>
<td>Z</td>
<td>-0.80</td>
<td>1.21</td>
</tr>
</tbody>
</table>

Regime: Quasi-steady
Category: Vehicle
Source: Vent Lab2A,2B

Microgravity Science Division
Glenn Research Center

PIMS ISS Acceleration Handbook
Date last modified 2/7/03
US Lab Condensate Water Dump

Sensor: MAMS, ossbtmf 0.0625 sa/sec (0.01 Hz)
Location: LAB1O2, ER1, Lockers 3,4
Orientation: Space Station Analysis (SSA)
Inc/Flight: Increment: 4, Flight: UF1
Plot Type: Acceleration Magnitude

NOTES:
- Red box indicates largest venting effect on quasi-steady environment.
- Values below were calculated for the time period of the plot.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value (µg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>2.30</td>
</tr>
<tr>
<td>RMS</td>
<td>2.40</td>
</tr>
<tr>
<td>Peak</td>
<td>7.30</td>
</tr>
</tbody>
</table>

Regime: Quasi-steady
Category: Vehicle
Source: Vent Lab2A,2B