ENVIRONMENTAL TEST REPORT

Purchase Order No: 048328
PMI Part No: 27310120
PMI Model No: PEC-1D575G-1AFS-SFF

Serial Numbers: PL5523 thru PL5538

Electrical	D. Vescuso	04/30/09			ENVIRONMENTAL TEST REPORT Prepared By: PMI April 30th, 2009
Mechanical	D. Durbin	04/30/09			
Quality	P. Wood	04/30/09			

Planar Monolithics Industries, Inc., 7311-F Grove Road, Frederick, MD 21704 Φ USA Φ
Tel: 301-662-5019 Φ Fax: 301-662-1731 Φ Email: sales@planarmonolithics.com

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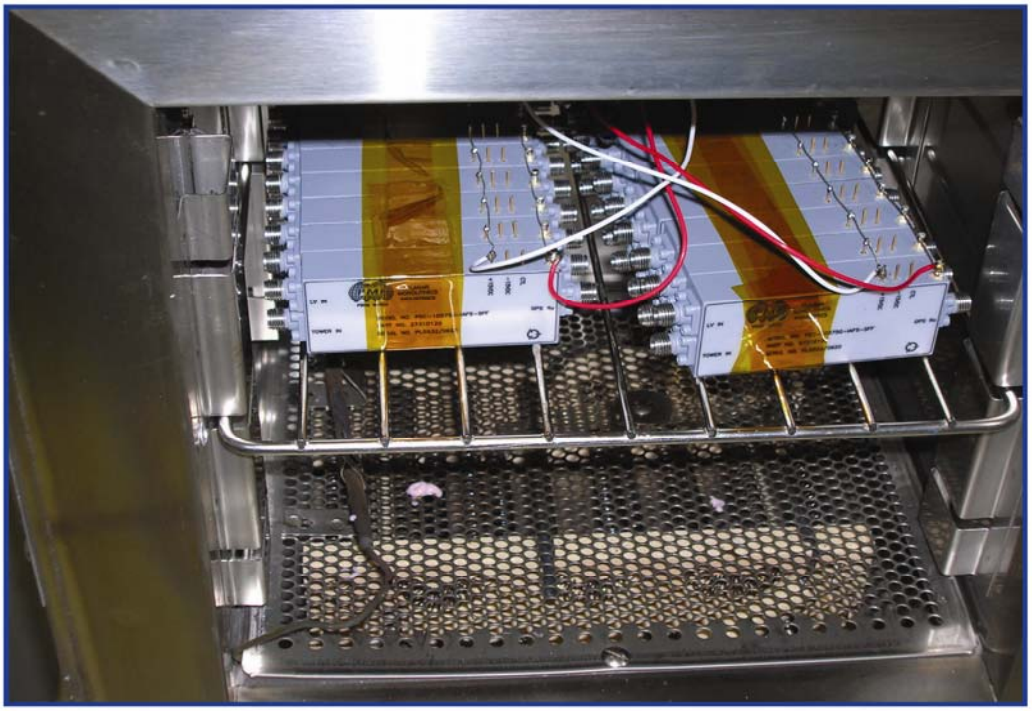
BURN-IN CERTIFICATE



START DATE	TEMPERATURE	END DATE	TECHNICIAN	QA
4/24/09 5:00 PM	85°C	4/28/09 8:00 AM	D. Durbin	P. Wood
	With DC voltage applied	Total time: 87 hrs.		

QA Signature: _____ Date: April 28th, 2009

Peter Wood, QA Mgr.

Planar Monolithics Industries, Inc, 7311-F Grove Road, Frederick, MD 21704 USA
Tel: 301662-5019 Fax: 301-662-1731 Email: quality@planarmonolithics.com

TEMPERATURE CYCLING CERTIFICATE

Temperature cycling MIL-STD-883G, Method 1010, Condition B

START DATE	TEMPERATURE	END DATE	TECHNICIAN	QA
3/24/09 5:00 PM	-55°C to +125°C	3/25/09 8:00 AM	H. Gonzales	P. Wood
	Total time: 10 Cycles (≈13.3 hrs)			

QA Signature: _____ Date: March 25th, 2009

Peter Wood, QA Mgr.

Planar Monolithics Industries, Inc, 7311-F Grove Road, Frederick, MD 21704 USA
Tel: 301662-5019 Fax: 301-662-1731 Email: quality@planarmonolithics.com

SYPRIS TEST & MEASUREMENT

6120 Hanging Moss Road, Orlando, Florida, 32807 (407) 678-6900, FAX (407) 671-0664

Customer: **Planar Monolithics Industries**

Purchase Order #: **PET0900132** Job No.: **281313**

Order Quantity: **20** Mfg. P/N **N/A**

Customer P/N: **PEC-1D575G-1AFS-SFF** Generic P/N **N/A**

Specification **Customer's PO & MIL-STD-883**

Part Type: **MicroCircuit**

Prepared By: **Michael Dombrowski** Date Prepared: **4/8/09**

Reviewed By: Date Reviewed: 4-9-09

CERTIFICATE OF COMPLIANCE

This is to certify that the referenced item was subjected to a testing program in accordance with your Procurement Document, as defined in the attached test plan. This plan specifies the test sequence, outlines the test conditions and provides a summary for each test.

Sypris Test & Measurement does not infer or imply that the test methods utilized in the body of this report have been granted suitability by the Defense Supply Center Columbus, (DSCC). A current listing of approved suitability methods is available upon request.

Mfr.: Planar Monolithics Industries Date Code: N/A Accept: 20 Reject: 0

SEE ATTACHED DOCUMENTATION

Approved By: Date Approved: 4-30-09

C of C 1/1/03

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TASK	CONDITIONS	Date Completed	Operator Stamp
INCOMING INSPECTION	Visual check for shipping damage Verify packing slip information **Quantity** 20 / **Part #** PEC-1D575G-AFS-SFF / **Serial #** 1-20	4/9/09	STM 20-17 TECH
VIBRATION VARIABLE FREQUENCY	**Documentation:** Customer's P.O. & MIL-STD-883G, Method 2007.3 **Conditions:** Test Condition: **A** Frequency range: **20Hz / 2000Hz / 20Hz** Level: **20 g peak minimum** Number of Sweeps: **4** Sweep time: **4 minutes** Time per axis: **16 minutes** Number of axis: **3 (X, Y & Z)** **Procedure:** 1. Verify accelerometer operation. 2. Attach fixture to the vibration unit using fixture PDT. 3. Perform vibration test on units per conditions specified above. 4. Repeat steps 1-3 for each conditional orientation of test unit. **Details:** Operational: **N/A** Failure criteria: **N/A** **Operator's Notes:** **Qty in:** 20 **Qty Out:** 20	4/11/09	STM 20-17 TECH

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TASK	CONDITIONS	Date Completed	Operator Stamp
CONSTANT ACCELERATION	**Documentation:** Customer P.O. **Conditions:** Acceleration Level: **10 G's** Number of Orientations: **1 (Y_1)** Hold Time: **1 Minute** **Procedure:** 1. Mount units into test fixture. 2. Accelerate test lot per test conditions listed above. 3. Visually inspect units after test for damage. **Details:** Operational: **N/A** Failure criteria: **N/A.** **Operator's Notes:** **Qty in:** 20 **Qty Out:** 20	4/23/09	STM 20-17 TECH Don Zoom

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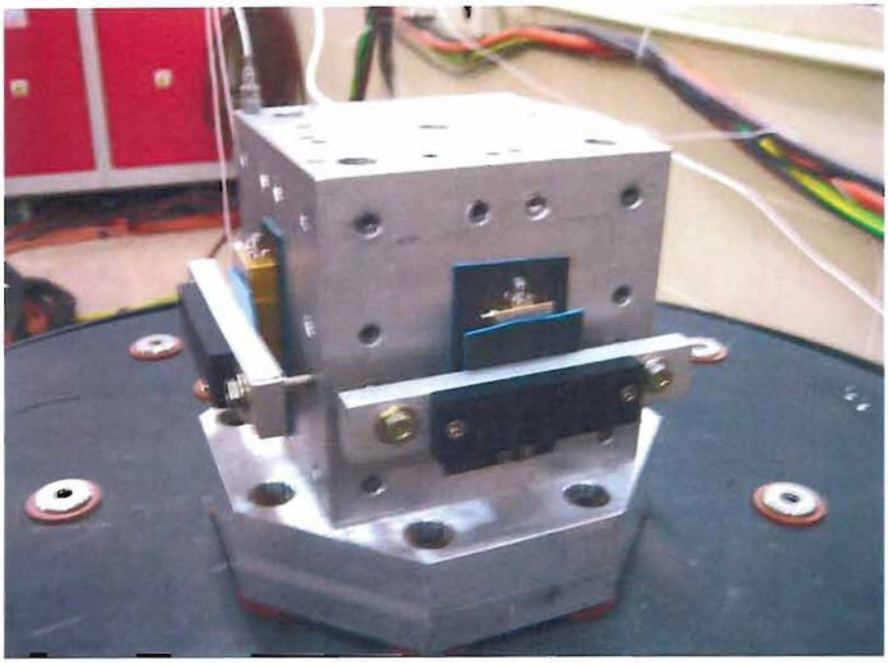
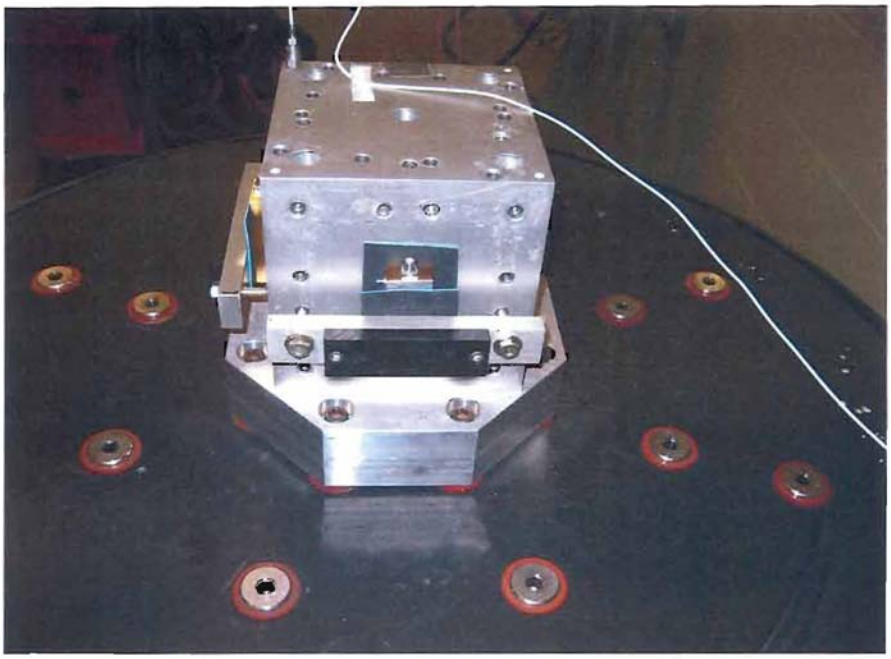
REPRESENTATIVE PHOTOS OF VIBRATION TESTING





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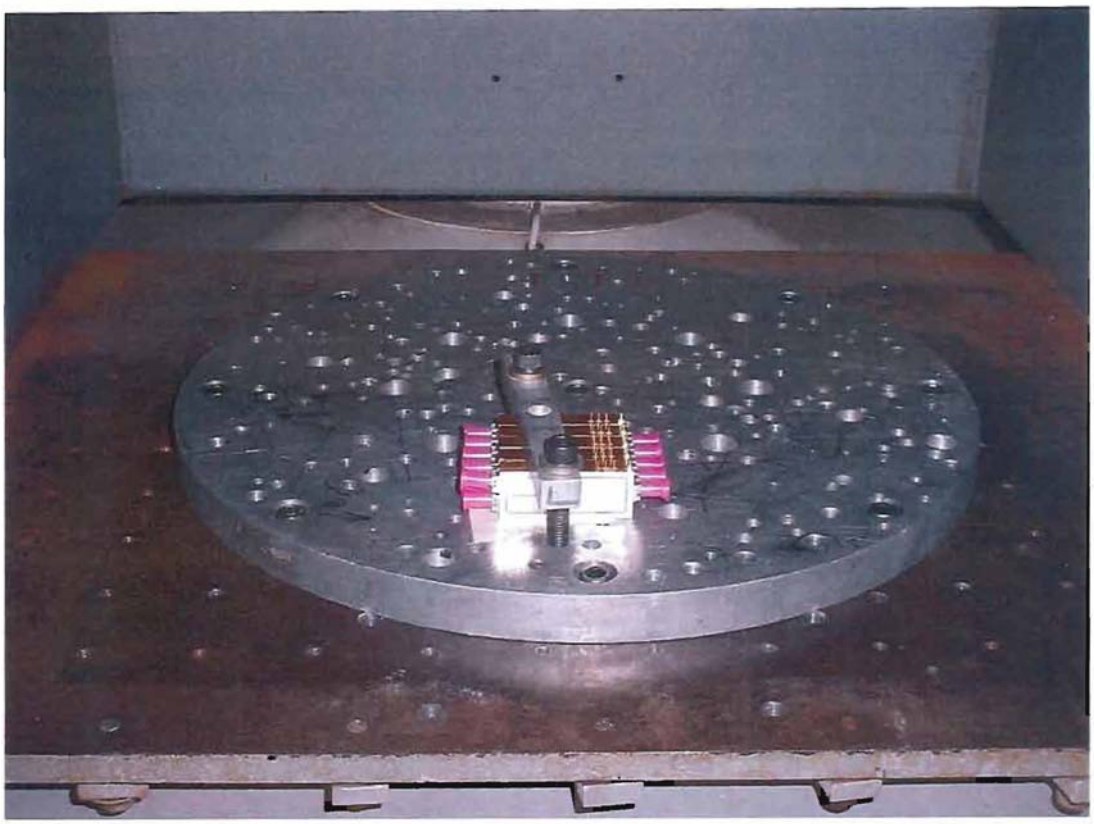
REPRESENTATIVE PHOTOS OF CONSTANT ACCELERATION TESTING



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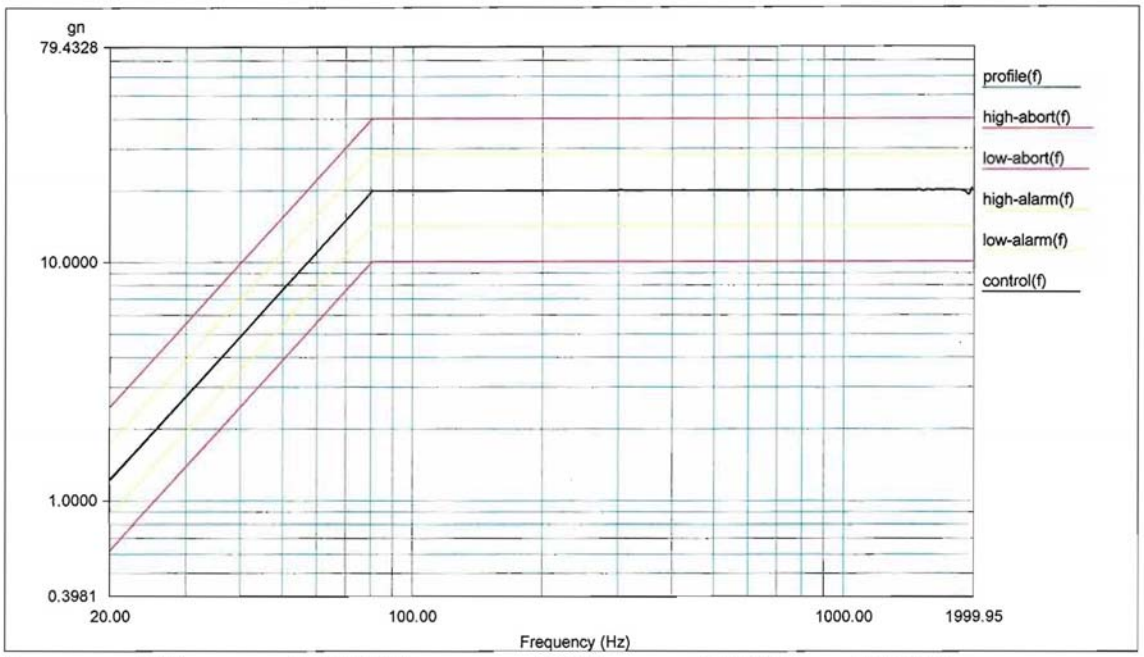
REPRESENTATIVE VIBRATION DATA X AXIS

DUT: PLANNAR - 281313
Serial Number:
Project File Name: Untitled
Profile Name: Low Level Test Type: Swept Sine Run Folder: .\RunDefault Apr 10, 2009 16-24-07



Level: 100 % Full Level Time: 00:16:00 Sweep Type: Logarithmic
Frequency:20.016891 Hz Time Remaining: 00:00:00 Sweep Rate: 1.66 Oct/Min

Data saved at 04:40:20 PM, Friday, April 10, 2009 Report created at 04:40:20 PM, Friday, April 10, 2009

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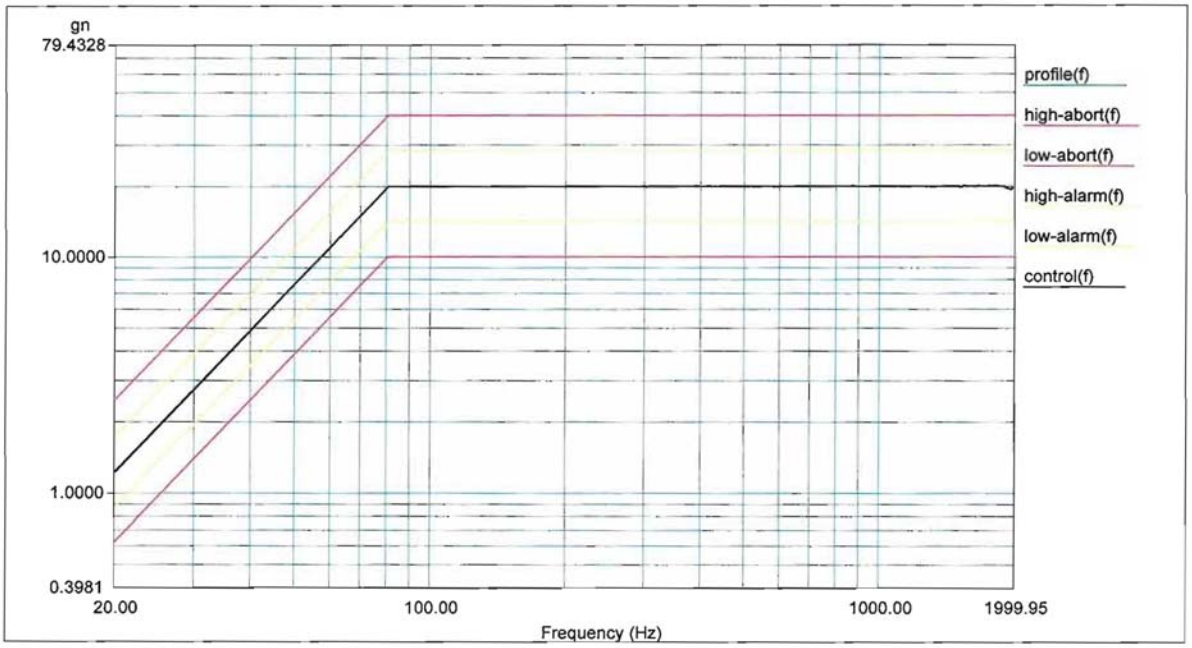
REPRESENTATIVE VIBRATION DATA Y AXIS

DUT: PLANNAR - 281313
Serial Number:
Project File Name: Untitled
Profile Name: Low Level Test Type: Swept Sine Run Folder: .\RunDefault Apr 11, 2009 12-25-09



Level: 100 % Full Level Time: 00:16:00 Sweep Type: Logarithmic
Frequency:20.012793 Hz Time Remaining: 00:00:00 Sweep Rate: 1.66 Oct/Min

Data saved at 01:17:24 PM, Saturday, April 11, 2009 Report created at 01:17:25 PM, Saturday, April 11, 2009

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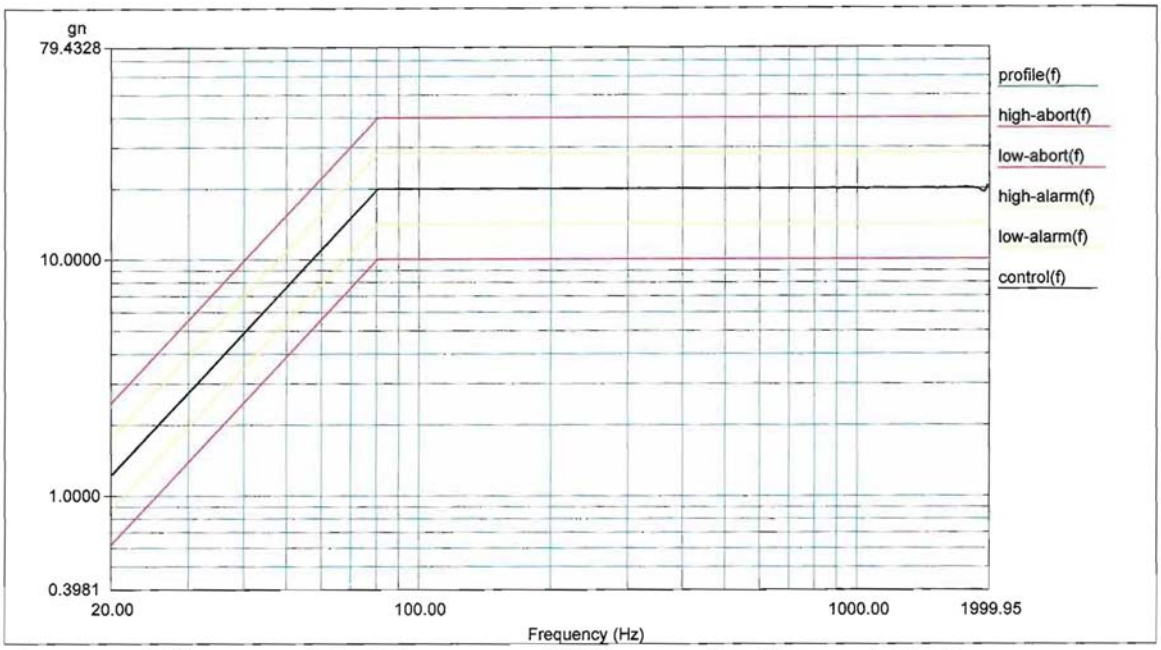
REPRESENTATIVE VIBRATION DATA Z AXIS

DUT: PLANNAR - 281313
Serial Number:
Project File Name: Untitled
Profile Name: Low Level Test Type: Swept Sine Run Folder: .\RunDefault Apr 11, 2009 16-19-30



Level: 100 % Full Level Time: 00:16:00 Sweep Type: Logarithmic
Frequency:20.016891 Hz Time Remaining: 00:00:00 Sweep Rate: 1.66 Oct/Min

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CONSTANT ACCELERATION DATA

Axis	G level	RPM	Radius
Y1	10	95	39”

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TASK	CONDITIONS	Date Completed	Operator Stamp
USAGE LOG	All Equipment Station Logs Completed.	4/28/09	STM 20-17 TECH

Manufacturer	Model # / Function	Asset #	Cal. Due
LDS	V860 / Vibration System	83-LDS01R	8/28/09
Dytran	3030B5H	83-2054	8/29/09
Rucken	RCT-2 / Centrifuge	28-0003	Monitor Externally
HP	3478A / DMM	13-0028	9/10/09
Accusp1:T	705X / Stopwatch	19-0033	8/22/09

PACK	Use original container or equivalent One copy of test plan.	4/28/09	STM 20-17 TECH
SHIP TO:	PLANAR ELECTRONICS TECHNOLOGY 7311-F GROVE ROAD, PMI FREDERICK, MD 21704		
SHIP VIA:	UPS RED		