Procedure I – Functional Shock

i Objective

Designed to represent a shock condition typical of that in operational use. The following conditions are taken directly from Table 516.4 Mil-STD-810E.

ii Test Conditions

Min Peak Value (g's)	Duration (mS)	Qty	Conditions
40G	11	Min 2 samples	To be operational. Repeat 3 times for each axis.

iii Analysis of Results

- Perform Visual and Functional checks before testing sample.
- Scope plots of Transient shock using appropriate accelerometer.
- Unit should not glitch or fail during or after each test.
- No mechanical failure / functional non-conformance of product.

iv Results

Product Code – V607FVH
Serial Number - 2051040394

- Unit was taken directly from production line. Unit was compliant with production standards.
- Scope plots were taken for 3 axis and are in files Run1,Run2, Run 3.
- Unit was on load during shock test.
- Unit passed production ATE test after test.
- No mechanical faults were found with unit.

PASS

Procedure IV – Transit Drop

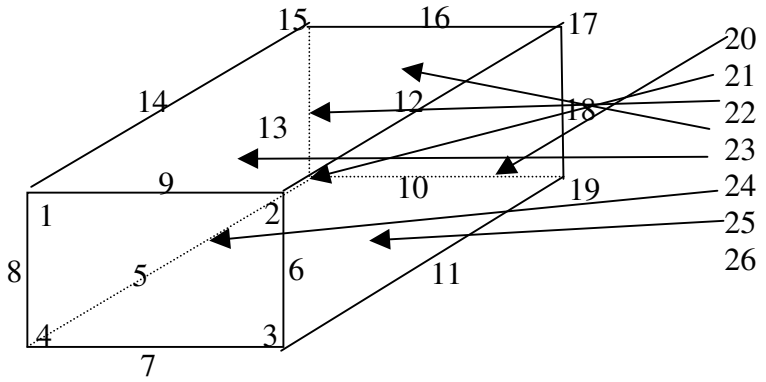
v Objective

Designed to test determine the structural and functional integrity of the unit in its packaged condition. The packaged condition in this case is a single unit packed in an outer cardboard box filled with foam squiggles.

vi Test Conditions

Using table 516.4 – II, the product should be dropped according to the following:

- Drop height = 122cm
- Total Drops = 26.
- Sample size = 5 max.
- Each corner/edge/ face to be tested = 26.



Use the following table and the diagram above to complete the drop sequence.

Sample No	Serial Number	Surface No
1	2051040396	1
1	2051040396	3
1	2051040396	26
1	2051040396	13
1	2051040396	23
1	2051040397	2
1	2051040397	4
1	2051040397	10
1	2051040397	24
2	2051040397	16
2	2051040402	9
2	2051040402	7
2	2051040402	18
2	2051040402	22
2	2051040402	15
2	2051040404	20

2	2051040404	14
3	2051040404	12
3	2051040404	11
3	2051040404	25
3	2051040401	17
3	2051040401	19
3	2051040401	21
3	2051040401	5
3	2051040401	6
3	2051040401	8

vii Analysis of Results

- Conduct visual and functional tests on each sample prior start.
- Document impact results (photos) for each sample.
- No mechanical failure / functional non-conformance of product.

viii Results

Product Code – V607FVH
Serial Number – 2051040403

- Unit was taken directly from production line. Unit was compliant with production standards.
- No mechanical damaged observed on unit.
- Unit passed production ATE test.
- Moderate crumpling of cardboard inner observed.

Product Code – V607FVH
Serial Number – 2051040395

- Unit was taken directly from production line. Unit was compliant with production standards.
- No mechanical damaged observed on unit.
- Unit passed production ATE test.
- Slight crumpling of cardboard inner observed.

Product Code – V607FVH
Serial Number – 2051040393

- Unit was taken directly from production line. Unit was compliant with production standards.
- No mechanical damaged observed on unit.
- Unit passed production ATE test.
- Moderate crumpling of cardboard inner observed.

PASS

Procedure VI – Bench Handling

ix Objective

Designed to test the ability of the product to withstand typical bench manual handling during operational / servicing use.

x Test Conditions

- Use a test bench with a thickness of at least 4.25cm
- With unit switched off.
- With the unit sat on its normal side (i.e. with label facing upwards).
- Lift one end of the unit to 100mm above surface of the bench.
- Repeat drop 4 times in total.

xi Analysis of Results

- Conduct visual and functional tests on each sample prior start.
- No mechanical failure / functional non-conformance of product.
- Document the results.

xii Results

Product Code - V607FVH
Serial Number - 2051040394

No visible damage observed.
Functional Test – PASS.

PASS