carmel
Environmental Tests Ltd.

ACCREDITED
TESTING LABORATORY
CERT. # 2881.01

# ENVIRONMENTAL TEST REPORT

| CLIENT | UNIT NAME |
| --- | --- |
| REOUEL GROUP קבוצת ראואל<br>Reouel | Tactical Case for Processing & MCCS Units |

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| Author | Guy Carmeli |
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| Last Updated By | Guy Carmeli |
| Last Updated On | March 8, 2021 |

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Environmental Tests Ltd.

## CLIENT DETAILS

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|---|---|
| Client Name | Reouel |
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| Tel. | 972-52-6477173 |
| Client Rep. | Almog Levy |
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קבוצת ראואל

Milrack

# DOCUMENT CONTROL

This document is a controlled document. It is your responsibility to ensure that you have the appropriate version of this document. This document is not subject to version control when printed.

## 1 // DOCUMENT HISTORY

The following table records information regarding released editions of this document and briefly describes their purpose and changes made to them.

| Edition ID | Release Date | Author | Purpose and Description of Changes |
|---|---|---|---|
| -- | March 8, 2021 | Guy Carmeli | **Purpose:** Release |

## 2 // DOCUMENT APPROVALS

| Author | *March 8, 2021* | Approved By | *March 8, 2021* |
|---|---|---|---|
| *Guy Carmeli, Technical Writer* | | *Dov Carmeli, COO* | |

## 3 // OPEN ISSUES

| No. | Subject/Section | Description |
|---|---|---|
| 1. | | |
| 2. | | |

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# 1. INTRODUCTION

## 1.1 // PURPOSE

The purpose of this document is to verify that the **Tactical Case for Processing & MCCS Units** meets all requirements as per the applicable documents.

## 1.2 // SCOPE

The scope of this Environmental Test Report includes the environmental test results as specified by the customer and by the related resources.

## 1.3 // GLOSSARY

| Term | Description |
|---|---|
| N.A | Not Applicable |
| N.C | Not Controlled |
| PSD | Power Spectral Density |
| TBD | To Be Defined |
| RH | Relative Humidity |
| UUT | Unit Under Test |

## 1.4 // LABORATORY ENVIRONMENTAL CONDITIONS

| | | | | | |
|---|---|---|---|---|---|
| **Temperature** | +25±10°C | **Humidity** | 50±30%RH | **Air Pressure** | 1010±10 mbar |

## 1.5 // APPLICABLE DOCUMENTS

This section contains a list of resources (e.g., documents, files) referenced by or related to this document. All documents' revisions are the latest known on the date of the contract signing.

**Main Document** Client's Requirements

***// Test-specific sources***

| Test | Document |
|---|---|
| Transit Drop | MIL STD 810E Method Procedure 516.4 Procedure IV |

## 1.6 // TEST INSTRUMENTATION

| Test | Name | S/N | Calibration Due Date |
|---|---|---|---|
| Transit Drop | Drop Device<br>LANSMONT Model PDT56ED | 13225 | 20 December, 2021 |
| Transit Drop | Measuring Tape<br>KTC Model 11G-5219 No. 57802 | 57802 | 12 December, 2021 |

## 1.7 // EXECUTIVE SUMMARY

The following table summarizes the tests that have been performed in Carmel Environmental Test Laboratories.
Reouel performed the functional tests and holds the sole responsibility for the results.

| Test Name | Verdict |
|---|---|
| Transit Drop | ✔Pass |

### Statement of Compliance with Test Requirements

We, Carmel Environmental Test Laboratories, declare under our sole responsibility that the Tactical Case for Processing & MCCS Units was tested to comply with the requirements of the applicable environmental test specification.

## 1.8 // LABORATORY ACCREDITATION

Carmel Environmental Test Laboratories Ltd. Is an accredited Laboratory by the American Association for Laboratory Accreditation – A2LA (see accreditation herein).

A2LA logo in the front page is applicable only to the tests under the scope of Carmel Environmental Test Laboratories accreditations.
Carmel Environmental Test Laboratories has A2LA accreditation to ISO/IEC 17025:2017 for test types as listed in the following link:

- **http://www.a2la.org/scopepdf/2881-01.pdf**



Accredited Laboratory

A2LA has accredited

CARMEL-ENVIRONMENTAL TESTS LTD.

*Petach Tikva, ISRAEL*

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 7th day of October 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2881.01
Valid to March 31, 2022

*For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.*

# 2. TRANSIT DROP TEST

## 2.1 // UNIT UNDER TEST OVERVIEW

| | |
|---|---|
| **Test Dates** | 02/03/2021 |
| **Client** | Reouel |
| **Client Rep.** | Almog Levy |
| **Unit Name** | Tactical Case for Processing & MCCS Units |
| **P/N** | N.A |
| **S/N** | N.A |
| **Item Manufacturer** | Reouel |
| **Number of Units** | 2<br>(1 Unit of Processing & 1 Unit of MCCS |

## 2.2 // TEST DESCRIPTION

## 2.2.1 // TEST PROCEDURE

*// General Setup*

| | | | |
|---|---|---|---|
| **Item Condition** | Un-Packed | **Height** | 50 cm |
| **Number of Drops** | 1 per unit | **Impact Surface** | Sand |

*// Drops Description*

✔ One drop on critical axis

## EXCLUSIONS FROM THE TEST METHOD // 2.2.2

**Pass**

## TEST INSPECTION // 2.2.3

| | *Visual Test* | *Functional Test* |
|---|---|---|
| **Before Test** | + | + |
| **After Test** | + | + |

All inspections were performed by customer's representative.

## 2.3 // TEST RESULTS

In visual inspection at completion of the test, no external damage observed.
Reouel representative has conducted operational and visual tests at the end of the test.
**Test Result:**✔Pass

## 2.4 // TEST PICTURES



***Figure** 2.1 – **Drop Height.***

***Processing - Before***



***Figure** 2.2 - **UUT Before Drop Test***



***Figure** 2.3 - **UUT Before Drop Test***



***Figure** 2.4 - **UUT Before Drop Test***



***Figure** 2.5 - **UUT Before Drop Test***



*Figure* 2.6 - ***UUT Before Drop Test***

## ***Processing - During***



*Figure* 2.7 - ***UUT During Drop Test***

## ***Processing - After***




***Figure** 2.8 - **UUT After Drop Test***



***Figure** 2.9 - **UUT After Drop Test***

## *MCCS - Before*



***Figure** 2.10 - **UUT Before Drop Test***



***Figure** 2.11 - **UUT Before Drop Test***



***Figure** 2.12 - **UUT Before Drop Test***



***Figure** 2.13 - **UUT Before Drop Test***



***Figure** 2.14 - **UUT Before Drop Test***



***Figure*** 2.15 **- *UUT Before Drop Test***



***Figure*** 2.16 **- *UUT Before Drop Test***



***Figure*** 2.17 **- *UUT Before Drop Test***

## *MCCS - During*



***Figure** 2.18 - **UUT During Drop Test***

## *MCCS – After*

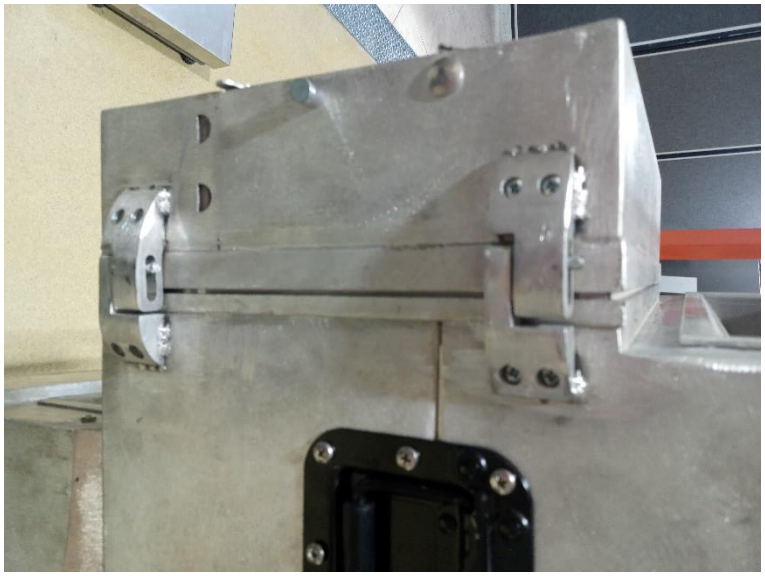


***Figure** 2.19 - **UUT After Drop Test***



***Figure** 2.20 - **UUT After Drop Test***

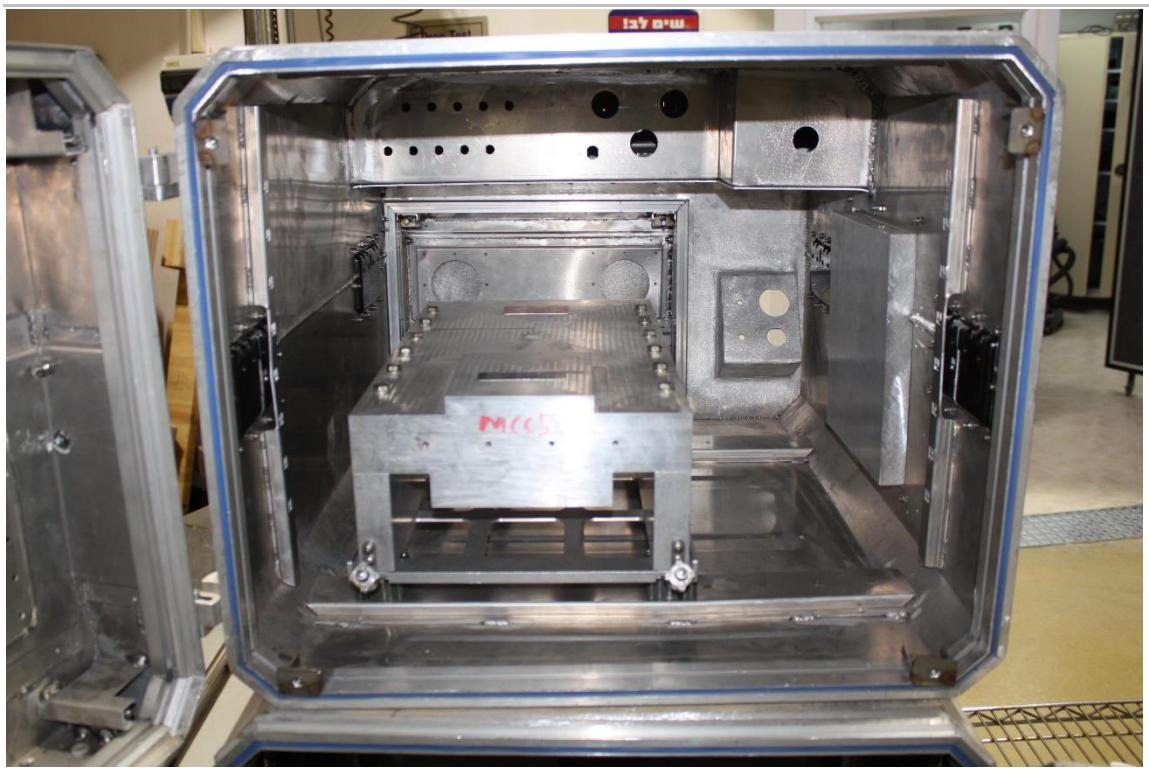



***Figure** 2.21 - **UUT After Drop Test***

# End of Report