carmel Environmental Tests Ltd.

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Customer Name:	**STARCOM SYSTEMS SA**
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Last Updated By:	**G. BARKAY**

Carmel Environmental Test Laboratories

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LABORATORY DETAILS

Lab Name	Carmel Environmental Test Laboratories

CUSTOMER DETAILS

Customer Name	STARCOM SYSTEMS SA and Bynet Communication Ltd

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a. DOCUMENT HISTORY

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

Edition Id	Release Date	Responsible Author	File Reference, Purpose and Description of Changes
---		G. Barkay	**File Reference:** C:\Documents and Settings\user\Desktop\REPORTS\ STARCOM SYSTEMS SA-5800-TRITON **Purpose:** **Changes:**

b. DOCUMENT APPROVALS

This edition has been approved by:

	Name	Title	Signature	Date
Author	G. Barkay	Technical Writer		
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c. DISTRIBUTION LIST

Organizational Unit	Title	Title	Title	Title

d. OPEN ISSUES

This part of the document control section is used to record and track open issues and/or unresolved questions. As the development of this document proceeds, these issues and questions should be resolved and then removed from the list.

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 **TRITON** 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

Abbreviation / Acronym / Term	**Explanation / Description**
iDDE	Integrated Document Development Environment
ID	Identifier
NA	Not Applicable
TBD	To Be Defined
ETR	Environmental Test Report
ETS	European Telecommunication Standard
IEC	International Electro technical Commission
NC	Not Controlled
UUT	Unit Under Test

1.4. APPLICABLE DOCUMENTS

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

- EN50155 Railways Applications.
- ETSI EN300 019 -2 -5.

1.5. EXECUTIVE SUMMARY

The following table summarizes the tests that have been performed in Carmel Environmental Test Laboratories.

STARCOM SYSTEMS SA performed the functional tests and they are his sole responsibility.

No.	Test Name	Pass/Fail
1.	Low Temperature Test	Pass
2.	High Temperature Test	Pass
3.	Vibration Test	Pass
4.	Mechanical Shock test	Pass
5.	Temperature and Humidity test	Pass
6.	Free Fall (Drop) Test	Pass
7.	Salt Fog test	Pass
8.	Water Jetting Test (IPX6)	Pass

Statement Of Compliance with test requirements.
We, Carmel Environmental Test Laboratories., declare under our sole responsibility that the **TRITON** was tested to comply with the requirements of the applicable environmental test specification.

1.6. LABORATORY ACCREDITATION

Carmel Environmental Test Laboratories Ltd. Is accredited Laboratory By the American Association for Laboratory Accreditation – A2LA (see Accreditation in the final page of this report).

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 17025:2005 for test types as listed in the following link:

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

2. LOW TEMPERATURE TEST

2.1. UNIT UNDER TEST OVERVIEW

Test Date	26, 27 December 2011
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044, 198051

2.2. TECHNICAL SOURCE

- EN50155 Railways Applications.
- ETSI EN300 019 -2 -5.

2.3. TEST INSTRUMENTATION

No.	Manufacturer / Model	Calibration Expired Date
1	THERMOTRON S8	30 June 2012

2.4. TEST PROCEDURE

2.4.1. EXCLUSIONS FROM THE TEST METHOD

Not Applicable.

2.4.2. LOW TEMPERATURE TEST PROCEDURE DESCRIPTION

Temperature	-40°C
Test Duration	16 Hours

2.4.3. TEST PERFORMANCE

Functional Test	• Performed by customer representative at the end of the test.
Visual Test	• Performed by customer representative at the end of the test.

2.5. TEST RESULTS

In visual inspection at completion of test, no external damage observed.
Operational test performed by the customer at the end of the test.
Pass O.K.

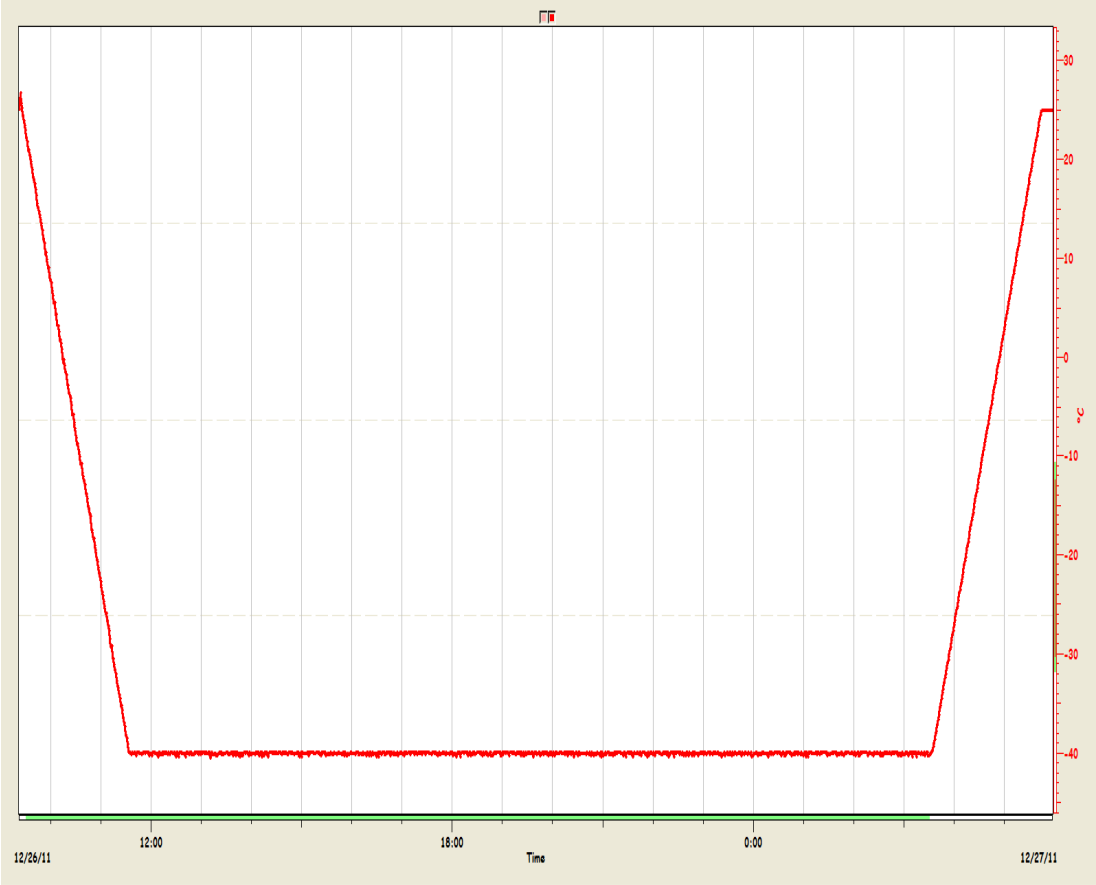
During the test the units was connect thru the com port to a local machine and transmitted information during the entire test cycle. Transmissions report can be found in Appendix A

2.6. TRITON LOCATED IN LOW TEMPERATURE CHAMBER

NOTICE TO CUSTOMER
– CAUTION –
THERMOTRON

2.7. TEST GRAPH

CUSTOMER: STARCOM SYSTEMS SA **TEST TYPE: LOW TEMP -40 for 16 Hours** **Date 27.12.11**	**UUT: RFU** **S/N: 198044, 198051**



3. HIGH TEMPERATURE TEST

3.1. UNIT UNDER TEST OVERVIEW

Test Date	27, 28 December 2011
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044, 198051

3.2. TECHNICAL SOURCE

- EN50155 Railways Applications.
- ETSI EN300 019 -2 -5.

3.3. TEST INSTRUMENTATION

No.	Manufacturer / Model	Calibration Expired Date
1	THERMOTRON S8	30 June 2012

3.4. TEST PROCEDURE

3.4.1. EXCLUSIONS FROM THE TEST METHOD

Not Applicable.

3.4.2. HIGH TEMPERATURE TEST PROCEDURE DESCRIPTION

Temperature	Test Duration
+60°C	16 Hours
+85°C	2 Hours

3.4.3. TEST PERFORMANCE

Functional Test	• Performed by customer representative at the end of the test.
Visual Test	• Performed by customer representative at the end of the test.

3.5. TEST RESULTS

In visual inspection at completion of test, no external damage observed.
Operational test performed by the customer at the end of the test.
Pass O.K.

During the test the units was connect thru the com port to a local machine and transmitted information during the entire test cycle. Transmissions report can be found in Appendix A Report number 1

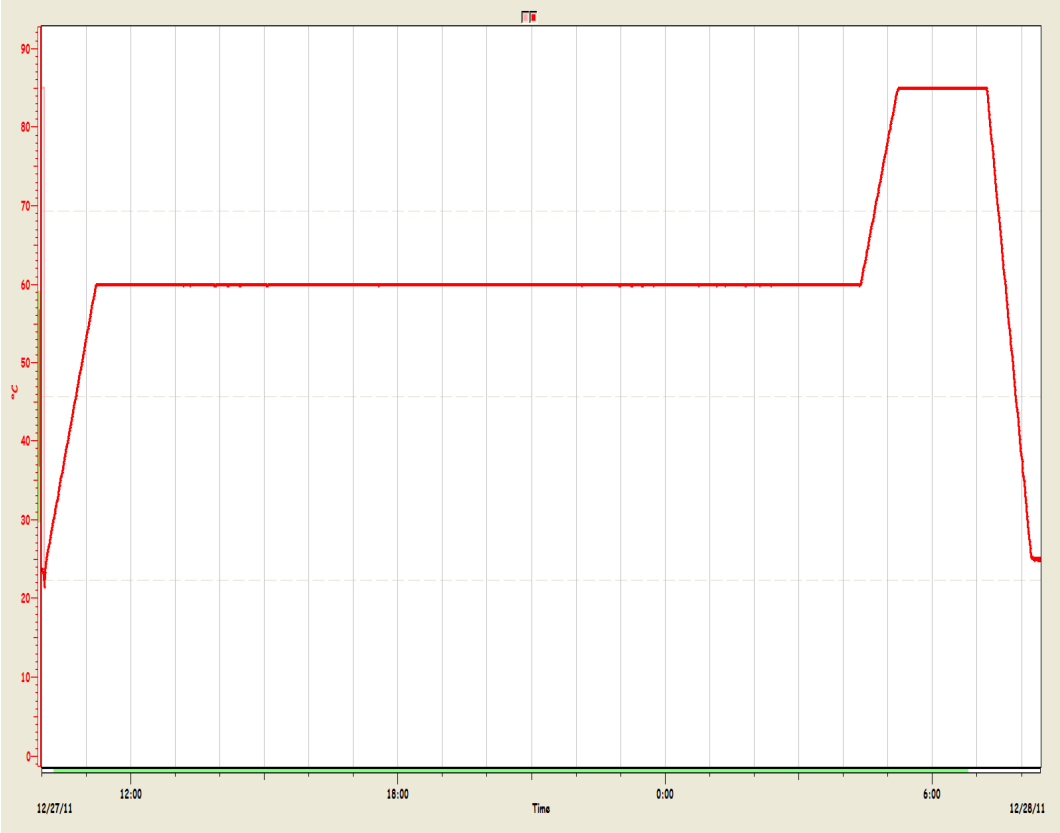
3.6. TRITON LOCATED IN HIGH TEMPERATURE CHAMBER

- See picture in paragraph 2.6

3.7. TEST GRAPH

CUSTOMER: STARCOM SYSTEMS SA
TEST TYPE: High Temp Test 60c for 16 hours
85c for 2 hours
Date 28.12.11

UUT: RFU
S/N: 198044, 198051



4. VIBRATION TEST

4.1. UNIT UNDER TEST OVERVIEW

Test Date	28, 29 December 2011
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044, 198051

4.2. TECHNICAL SOURCE

- EN 50155 Section 12.2.11

4.3. TEST INSTRUMENTATION

Instrumentation Name	Manufacturer / Model	S.N	Calibration Expired Date
Electrodynamics Vibration System	ETS SOLUTIONS MPA101 LDS MODEL: 730	SH10804034	NCR
Vibration Control System	Unholtz Dickie Model: Ud Vwin	10008616	30 June 2012
Control Accelerometer	Endevco Model 256HX-100	12154	30 June 2012

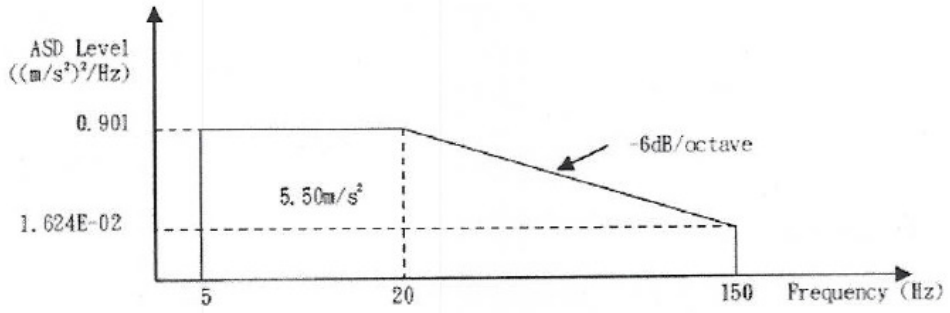
4.4. TEST PROCEDURE

4.4.1. EXCLUSIONS FROM THE TEST METHOD

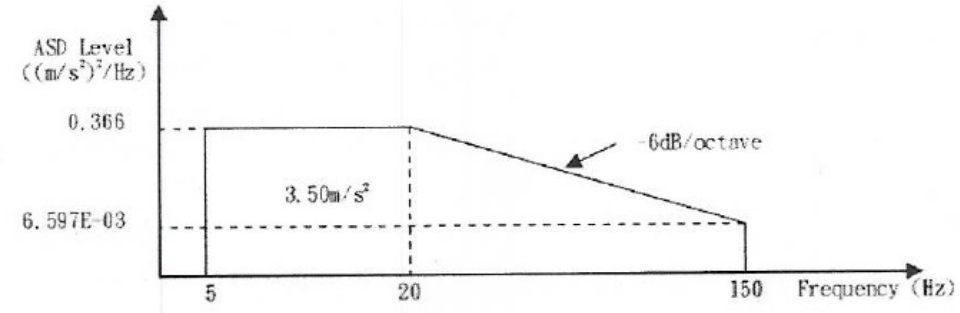
Not applicable.

4.4.2. VIBRATION TEST PROCEDURE DESCRIPTION

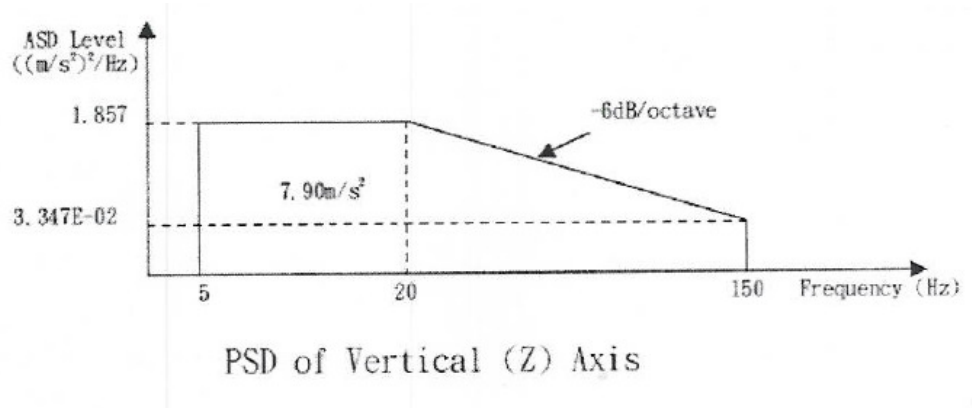
Item Position	The test item was rigidly attached to vibration exciter
Vibration Axes	3 (Longitudinal, Transversal, Vertical).
Vibration Time in Each Axis	5 Hours
Vibration Frequency	5-150 Hz
Vibration Level	Longitudinal – 0.56 grms Transversal – 0.36 grms Vertical – 0.78 grms



PSD of Longitudinal (X) Axis

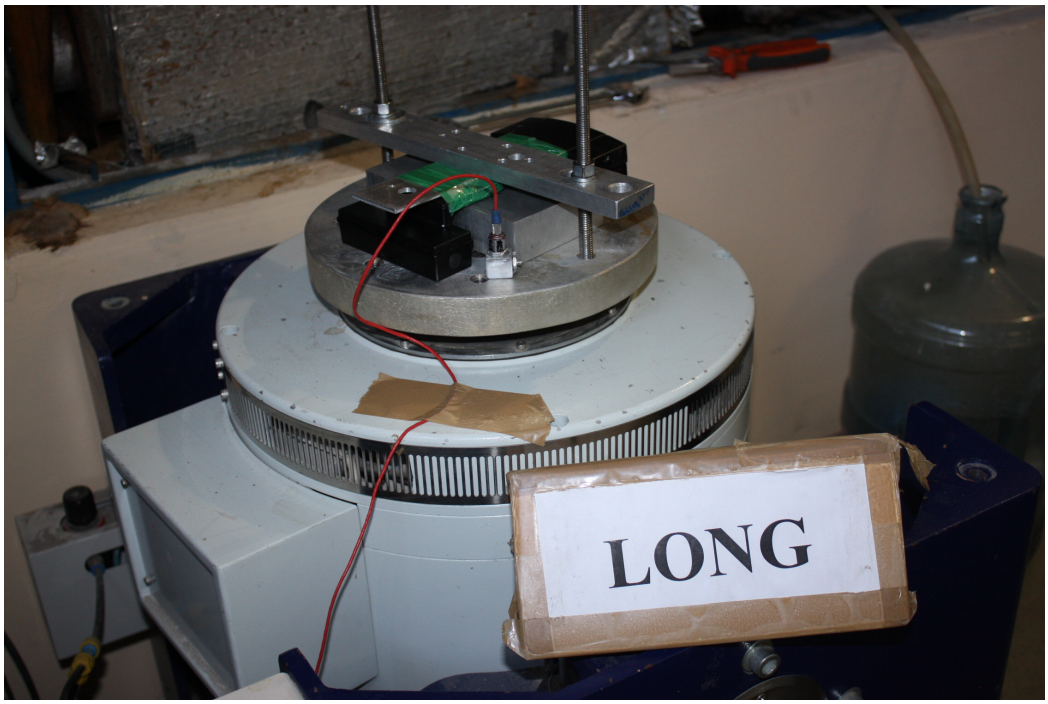


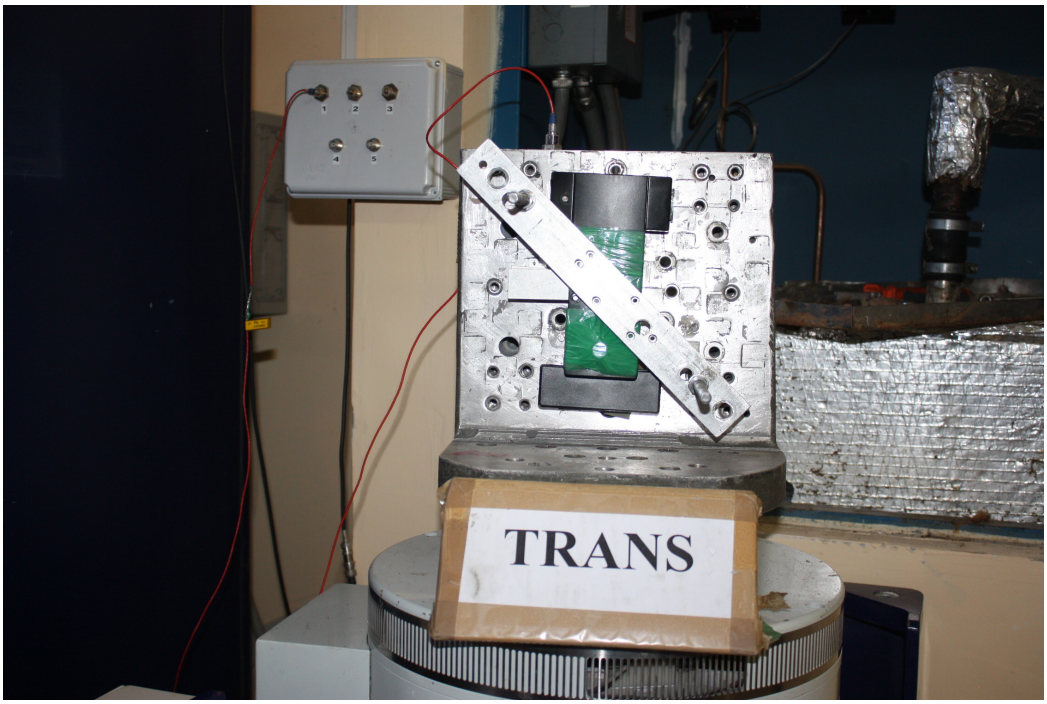
PSD of Transverse (Y) Axis

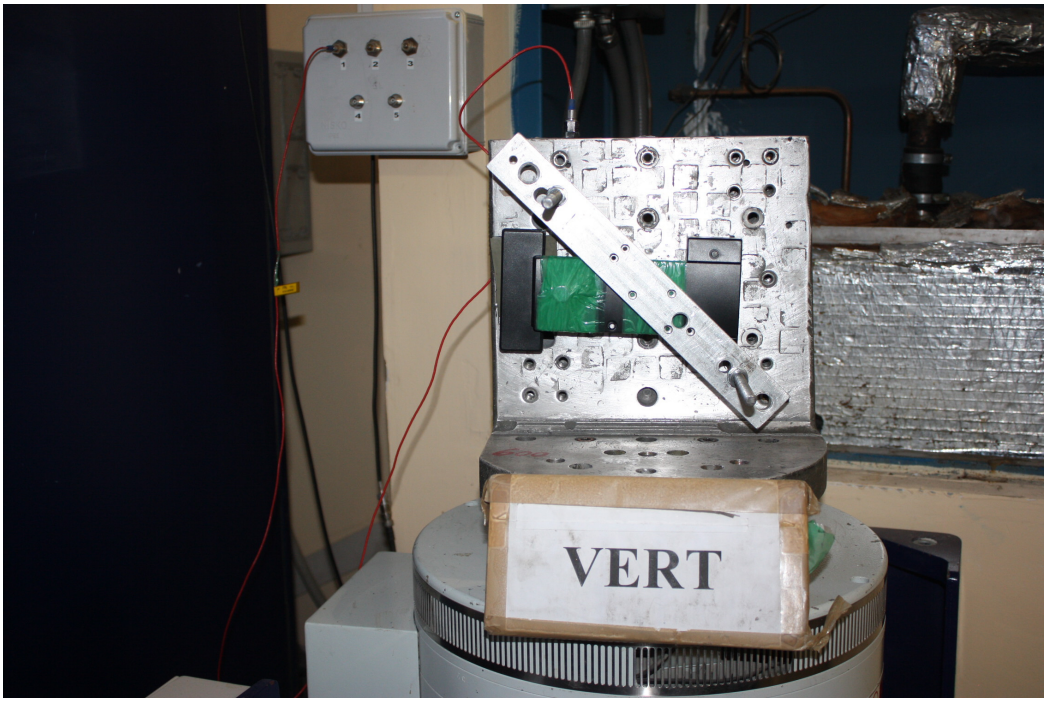


PSD of Vertical (Z) Axis

4.4.3. TRITON MOUNTED ON ELECTRODYNAMICS SHAKER




TRANS


VERT

4.4.1. TEST PERFORMANCE

Visual Test	• Performed by customer representative at the end of test.
Functional Test	• Performed by customer representative at the end of test.

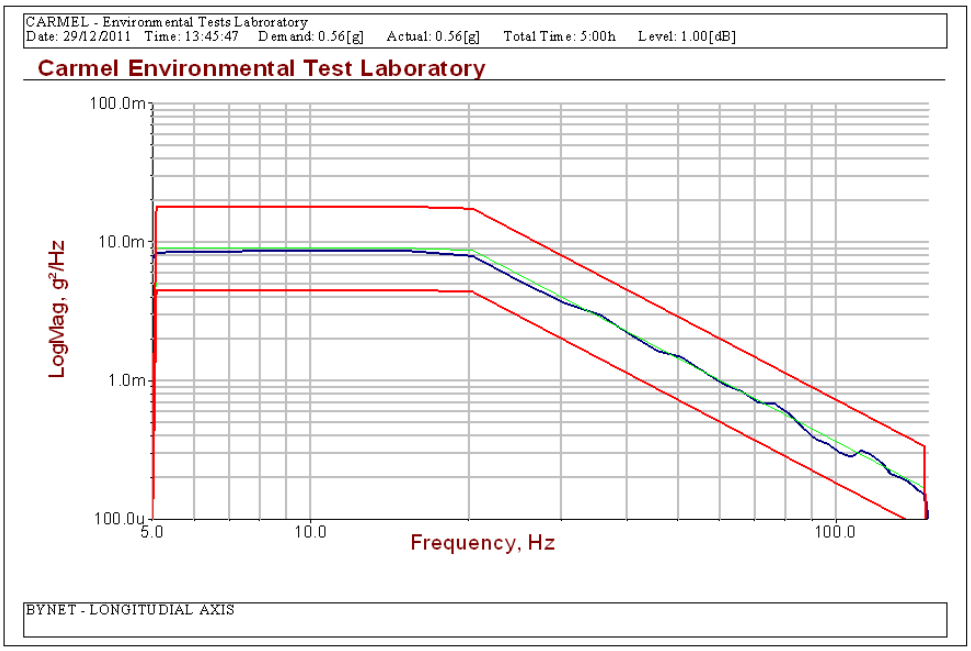
4.5. TEST RESULTS

In visual inspection at completion of test, no external damage observed.
Operational test performed by the customer at the end of the test.
Pass O.K.

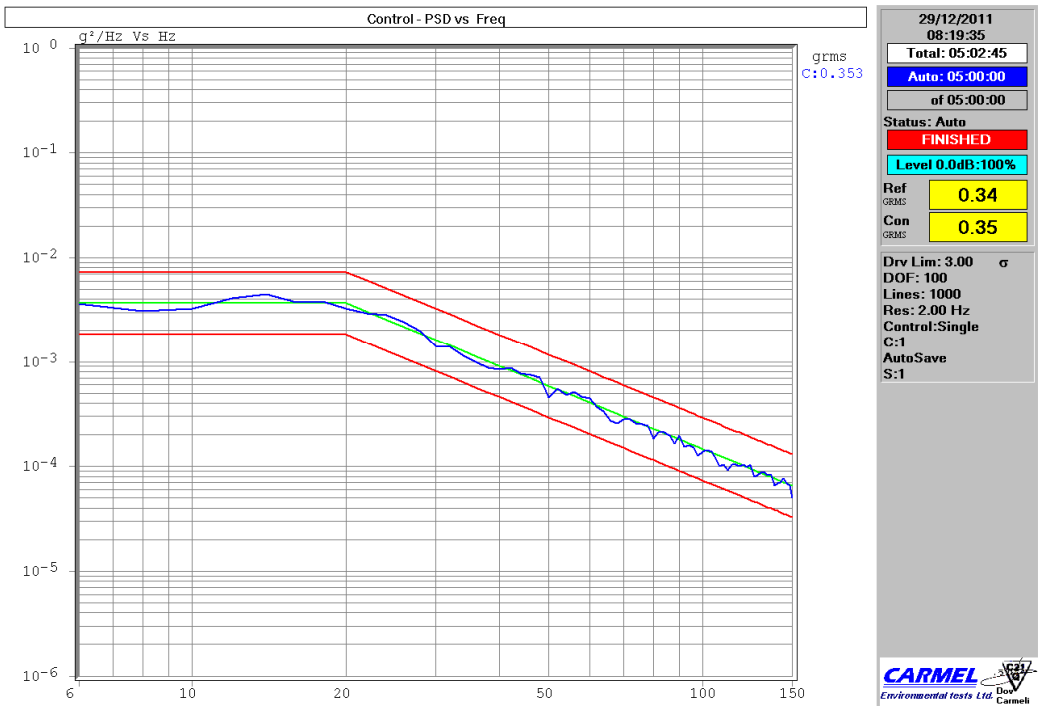
During the test the units was connected thru the GPRS network and transmitted information during the entire test cycle. Transmissions report can be found in appendix A and in Starcom's online monitoring application

4.6. PRODUCT RESPONSE GRAPHS

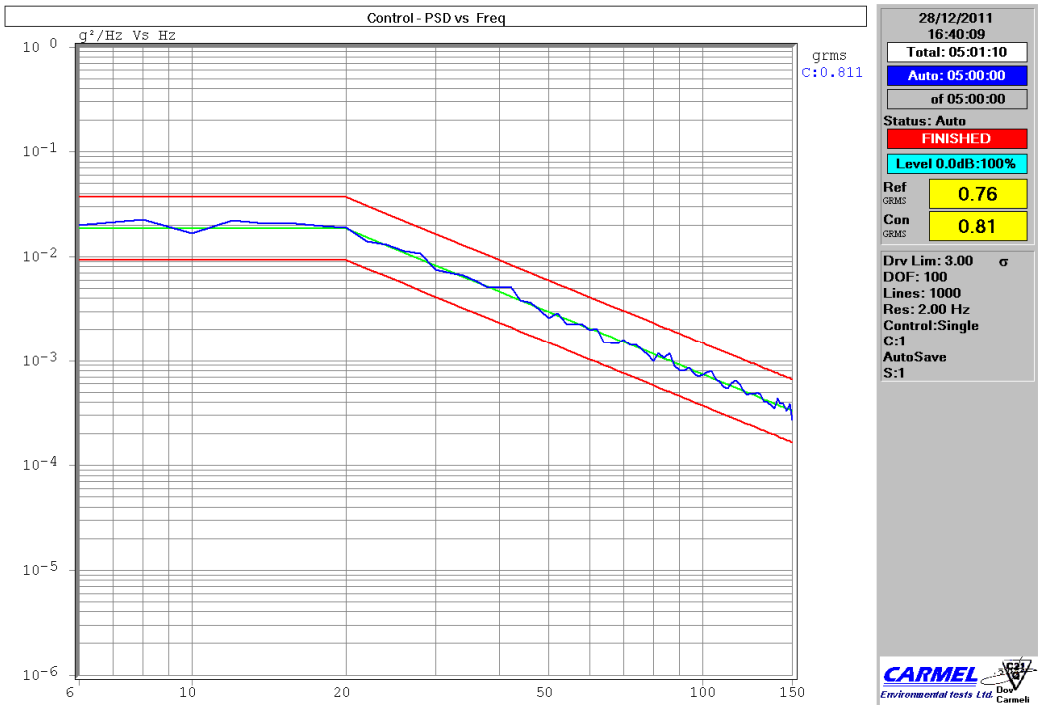
SETUP COMMENTS:
BYNET -
LONGITUDIAL AXIS



SETUP NAME: EN-61373 TRANS
SETUP DESC: EN-61373 TRANSVERSE
SETUP COMMENTS:
BYNET-
TRANSVERES AXIS
SETUP LAST CHANGED: 28/12/2011 18:32:42
RUN NAME: run1
SAVE NUMBER: 1



SETUP NAME: EN-61373 VERTICAL
SETUP DESC: Screen 6
SETUP COMMENTS:
STARCOM SYSTEMS SA
VERTICAL AXIS
SETUP LAST CHANGED: 28/12/2011 11:30:05
RUN NAME: run1
SAVE NUMBER: 1



5. MECHANICAL SHOCK TEST

5.1. UNIT UNDER TEST OVERVIEW

Test Date	30 December 2011
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044, 198051

5.2. TECHNICAL SOURCE

- EN50155 REFERNCE STANDARD IEC\EN 61373

5.3. TEST INSTRUMENTATION

Instrumentation Name	Manufacturer / Model	S.N	Calibration Expired Date
Electrodynamics Vibration System	L.D.S - Model: 964-LS L.D.S – model: 730		NCR
Vibration Control System	Unholtz Dickie Model: Ud Vwin	10008616	30 June 2012
Control Accelerometer	Endevco Model 256HX-100	12154	30 June 2012

5.4. TEST PROCEDURE

5.4.1. EXCLUSIONS FROM THE TEST METHOD

Not applicable.

5.4.2. MECHANICAL SHOCK TEST PROCEDURE DESCRIPTION

Item Position	The test item was rigidly attached to shock machine.
Number of Shocks	3 shocks were conducted in each of 6 directions of the test item
Shock Level	5 g
Time Duration	30 msec.
Shape	Half Sine
Total Number of Shocks	18 shocks.

5.4.3. TEST PERFORMANCE

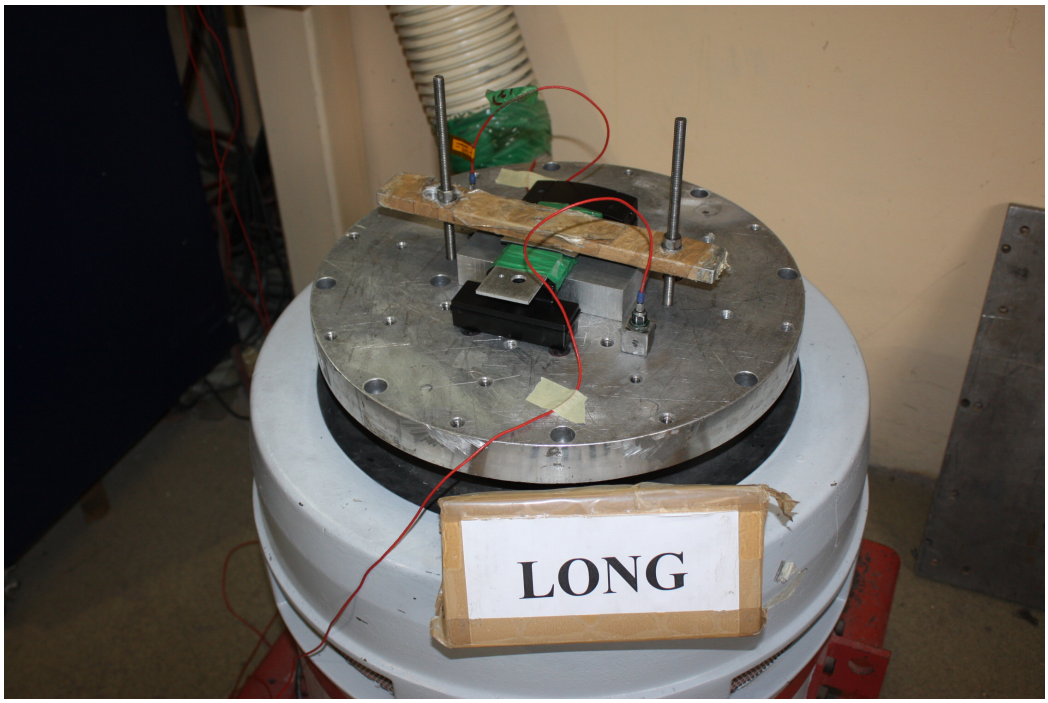
Functional Test	• Performed by customer representative at the end of the test.
Visual Test	• Performed by customer representative at the end of the test.

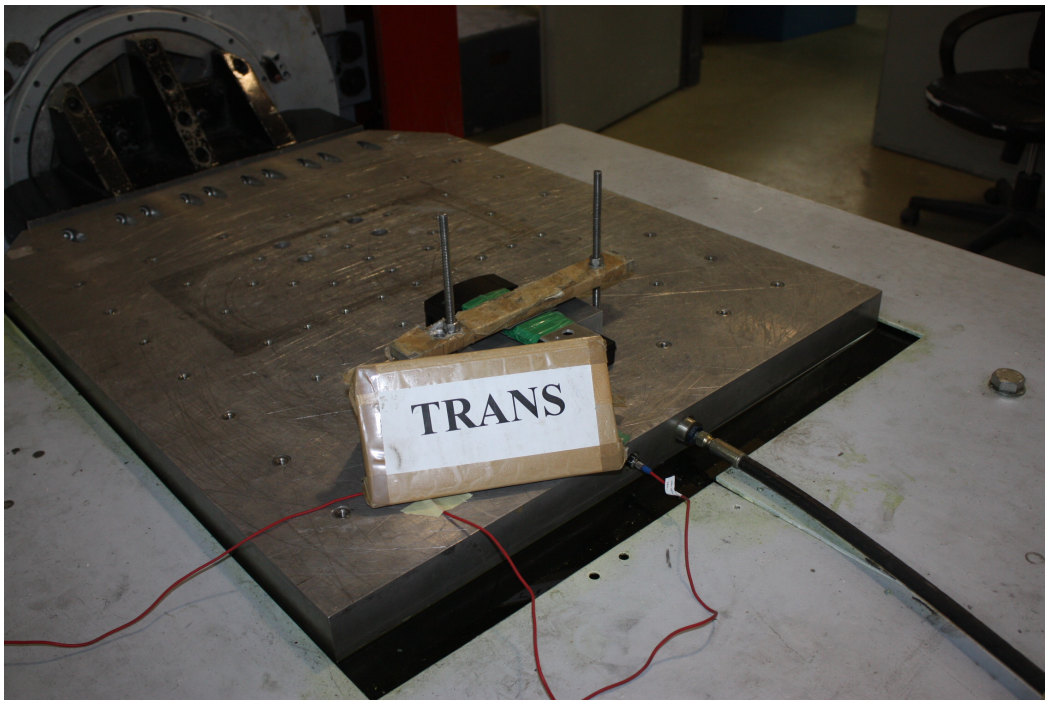
5.5. TEST RESULTS

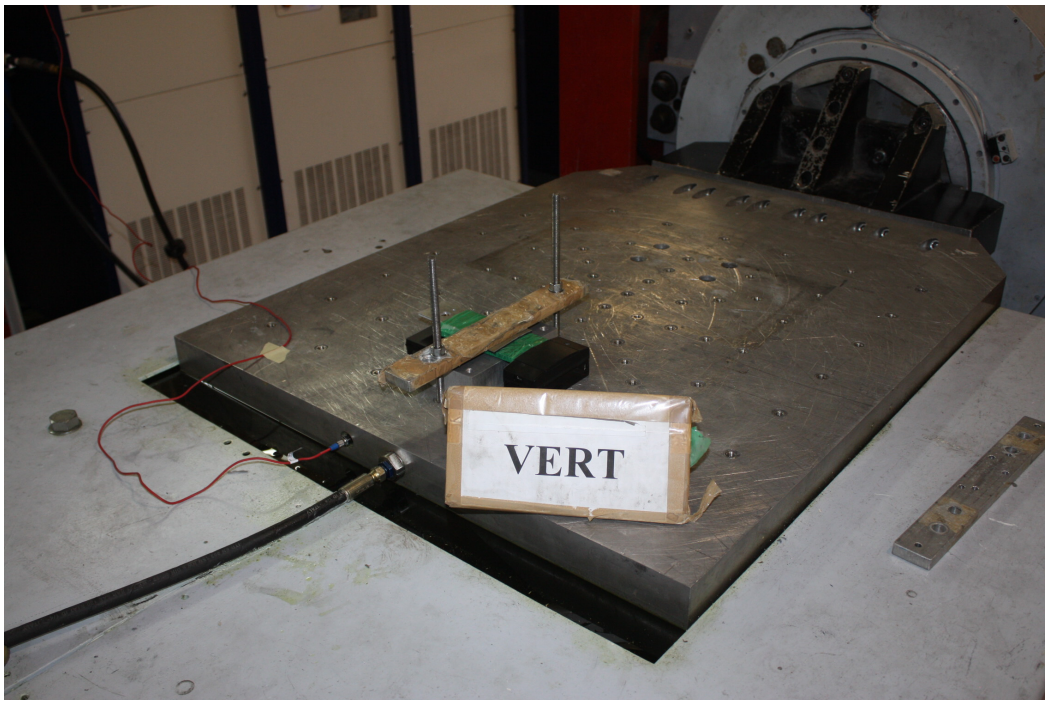
In visual inspection at completion of the test, no external damage observed.
The customer representatives have conducted operational and visual tests at the end of the test.
Pass O.K.

During the test the units was connected thru the GPRS network and transmitted information during the entire test cycle. Transmissions report can be found in appendix A Report 2 and in Starcom's online monitoring application

5.5.1. TRITON MOUNTED ON ELECTRODYNAMICS SHAKER

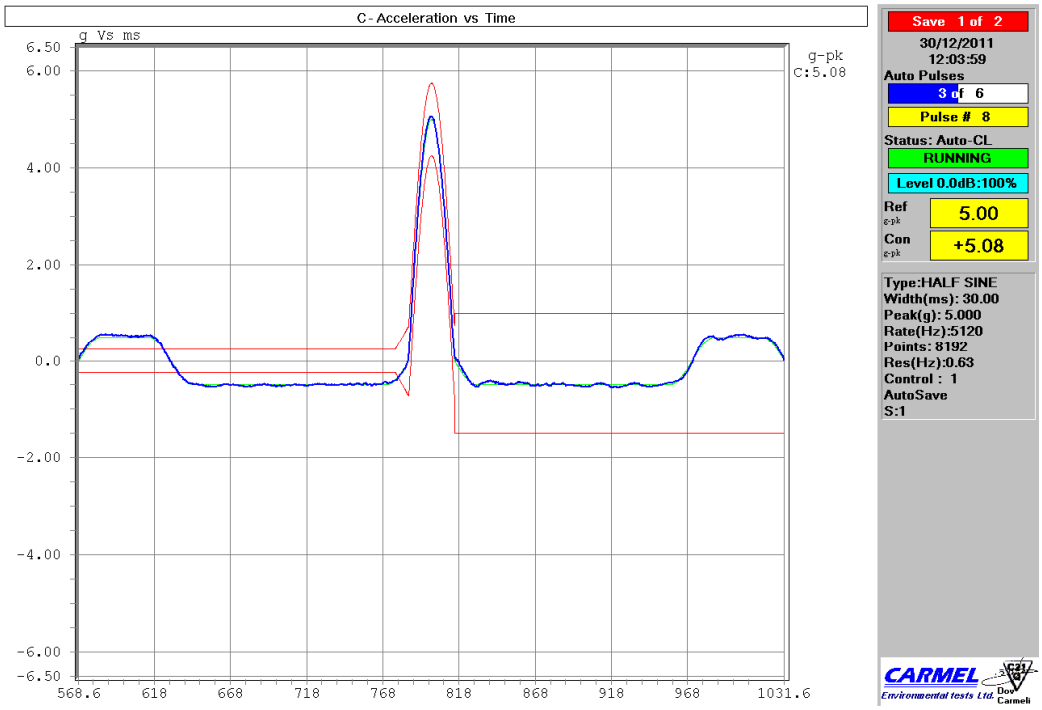




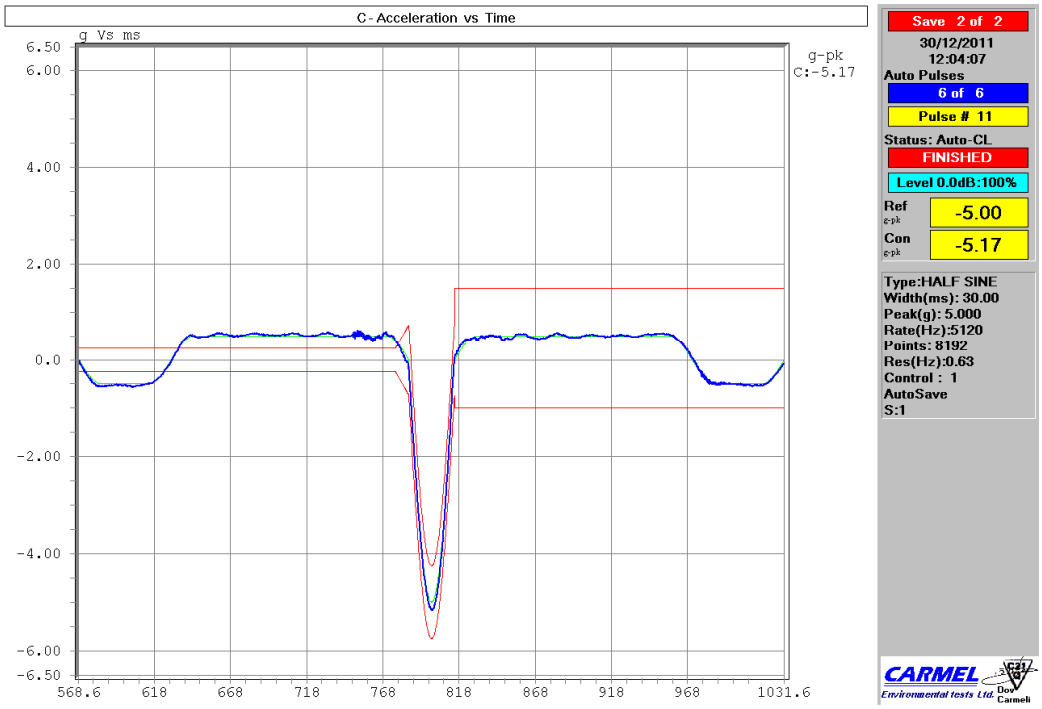

VERT

5.6. TEST RESPONSE GRAPHS

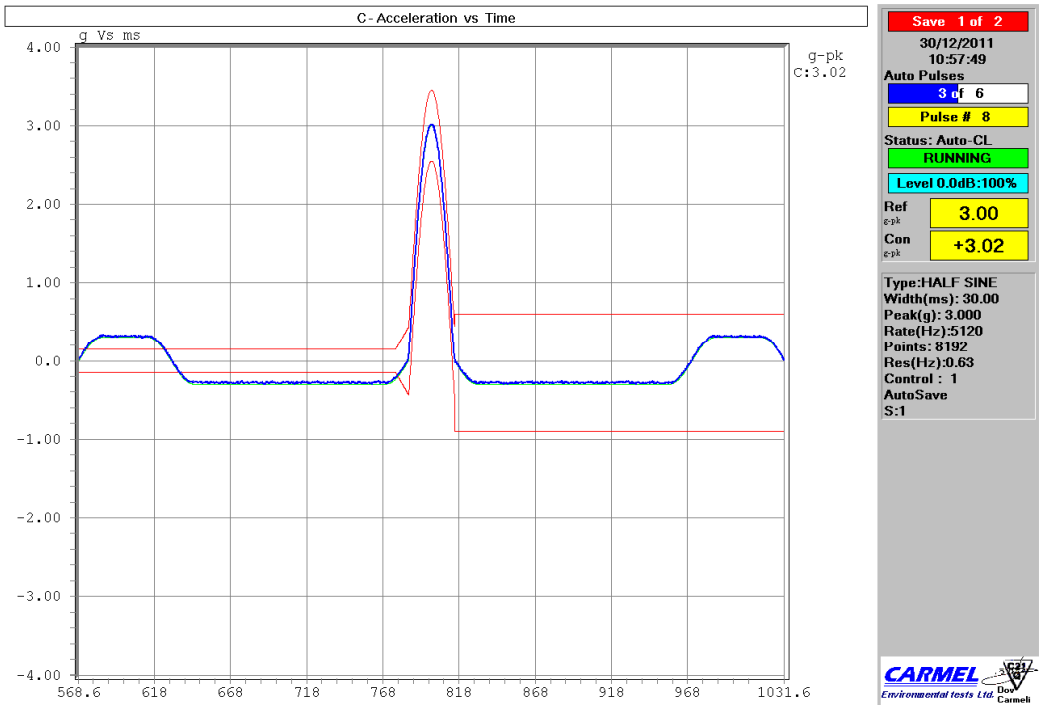
SETUP NAME: HS 5G 30 MS
SETUP DESC: SHOCK - HS 5g / 30 msec
SETUP COMMENTS: STARCOM SYSTEMS SA
(+)LONGITUDINAL DIRECTION
SETUP LAST CHANGED: 30/12/2011 12:01:18
RUN NAME: run3
SAVE NUMBER: 1



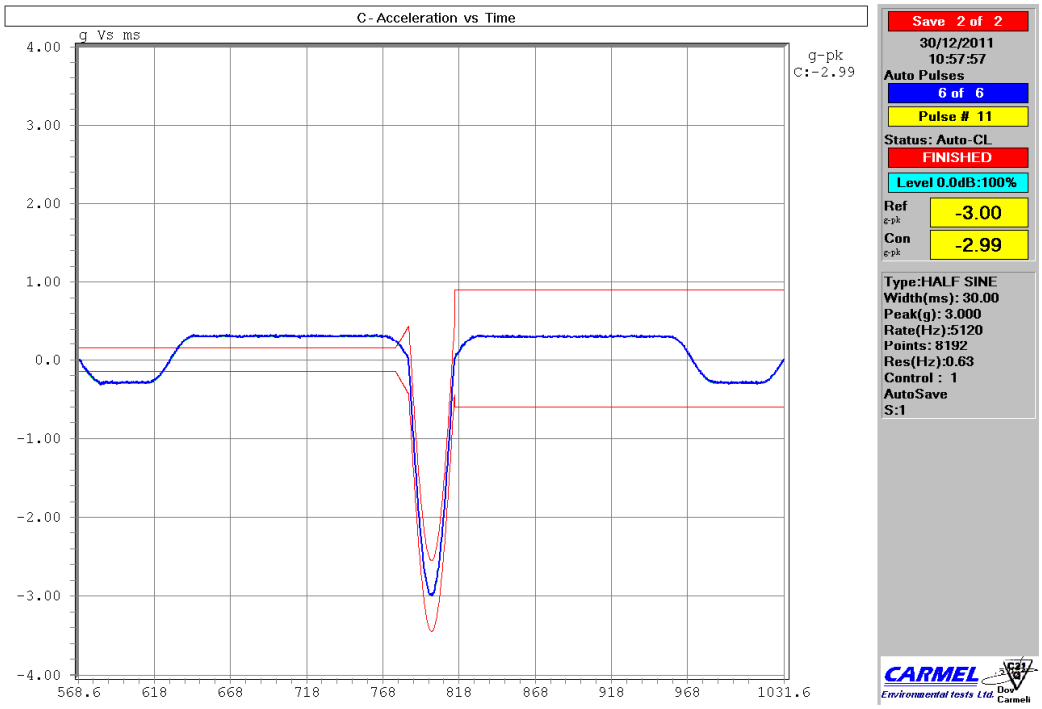
SETUP NAME: HS 5G 30 MS
SETUP DESC: SHOCK - HS 5g / 30 msec
SETUP COMMENTS: STARCOM SYSTEMS SA
(-) LONGITUDINAL DIRECTION
SETUP LAST CHANGED: 30/12/2011 12:01:18
RUN NAME: run3
SAVE NUMBER: 2



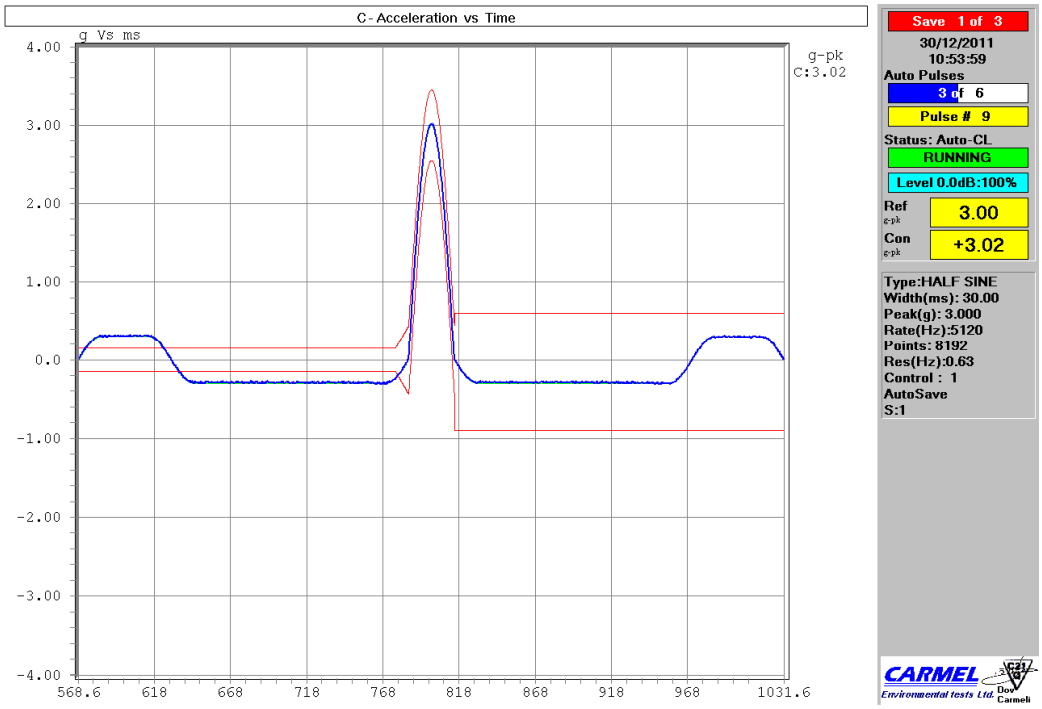
SETUP NAME: HS 3G 30 MS
SETUP DESC: SHOCK - HS 3G 30 MSEC
SETUP COMMENTS: STARCOM SYSTEMS SA
(+) TRANSVERSE DIRECTION
SETUP LAST CHANGED: 30/12/2011 10:53:10
RUN NAME: run2
SAVE NUMBER: 1



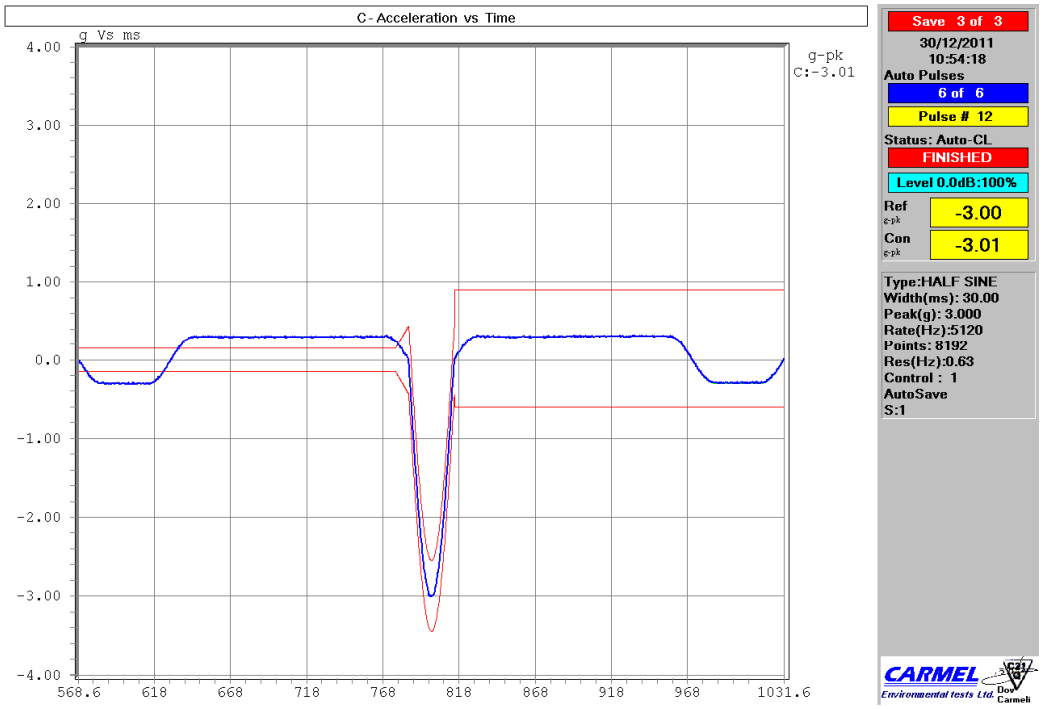
SETUP NAME: HS 3G 30 MS
SETUP DESC: SHOCK - HS 3G 30 MSEC
SETUP COMMENTS: STARCOM SYSTEMS SA
(-) TRANSVERSE DIRECTION
SETUP LAST CHANGED: 30/12/2011 10:53:10
RUN NAME: run2
SAVE NUMBER: 2



SETUP NAME: HS 3G 30 MS
SETUP DESC: SHOCK - HS 3G 30MS
SETUP COMMENTS: STARCOM SYSTEMS SA
(+) VERTICAL DIRECTION
SETUP LAST CHANGED: 30/12/2011 10:53:10
RUN NAME: run1
SAVE NUMBER: 1



SETUP NAME: HS 3G 30 MS
SETUP DESC: SHOCK - HS 3G 30MS
SETUP COMMENTS: STARCOM SYSTEMS SA
(-) VERTICAL DIRECTION
SETUP LAST CHANGED: 30/12/2011 10:53:10
RUN NAME: run1
SAVE NUMBER: 3



6. TEMPERATURE AND HUMIDITY TEST

6.1. UNIT UNDER TEST OVERVIEW

Test Date	30 December 2011 – 1 January 2012
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044, 198051

6.2. TECHNICAL SOURCE

- EN50155 Railways Applications.

6.3. TEST INSTRUMENTATION

No.	Manufacturer / Model	Calibration Expired Date
1	THERMOTRON F62	30 June 2012

6.4. TEST PROCEDURE

6.4.1. EXCLUSIONS FROM THE TEST METHOD

Not Applicable.

6.4.2. TEMPERATURE AND HUMIDITY TEST PROCEDURE DESCRIPTION

Humidity	95%
Temperature	+40°C
Test Duration	48 Hours

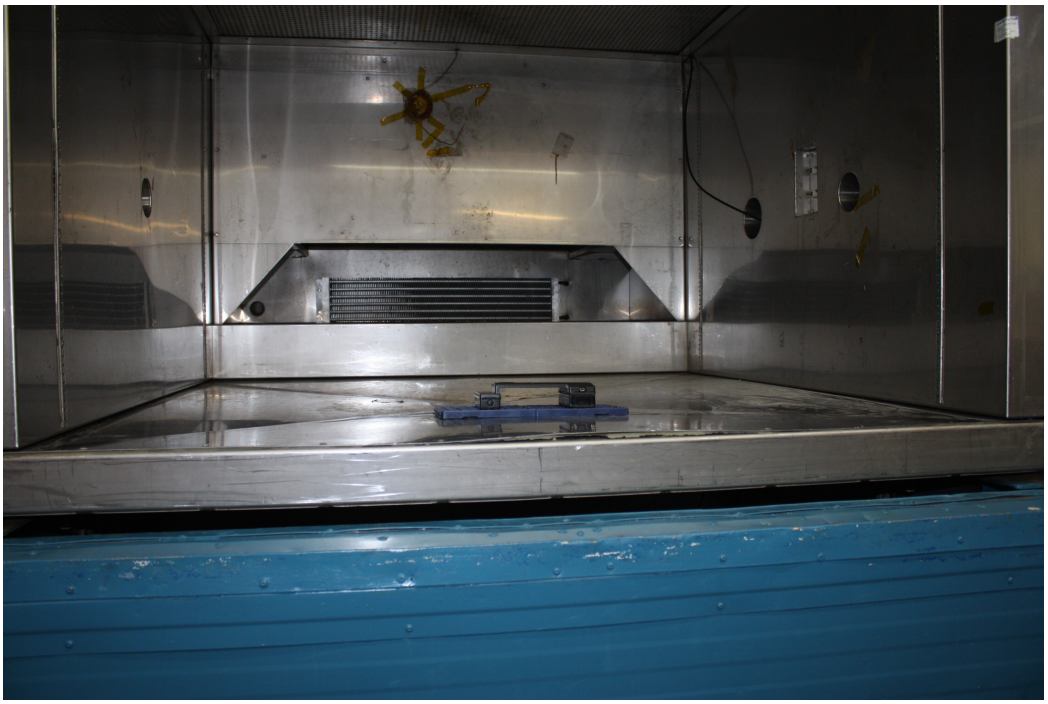
6.4.3. TEST PERFORMANCE

Functional Test	• Performed by customer representative at the end of the test.
Visual Test	• Performed by customer representative at the end of the test.

6.5. TEST RESULTS

In visual inspection at completion of test, no external damage observed.
Operational test performed by the customer at the end of the test.
Pass O.K.
During the test the units was connected thru the GPRS network and transmitted information during the entire test cycle. Transmissions report can be found in appendix A and in Starcom's online monitoring application

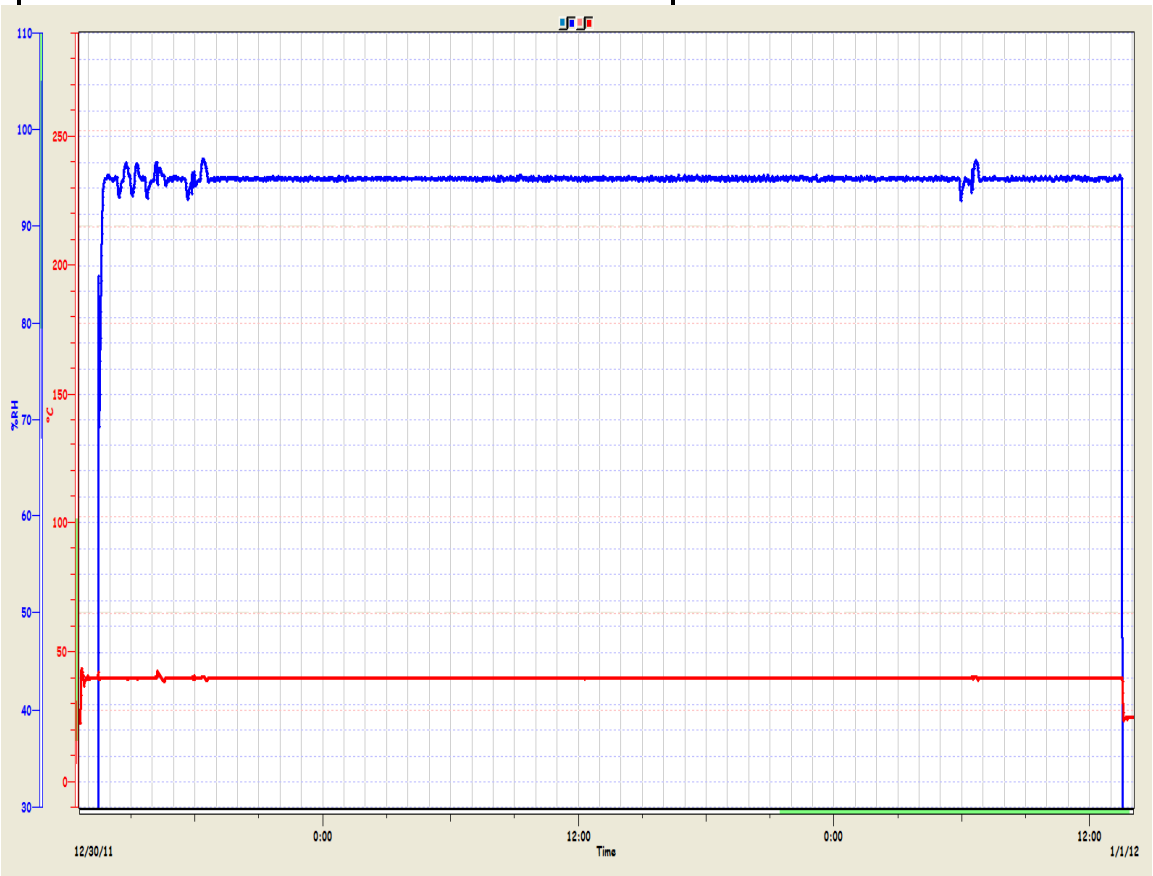
6.6. TRITON LOCATED IN TEMPERATURE AND HUMIDITY CHAMBER



6.7. TEST GRAPH

CUSTOMER: STARCOM SYSTEMS SA
TEST TYPE: Humidity test 48 hours
Date: 01.01.12

UUT: Triton
S/N: 198044



7. FREE FALL (DROP) TEST

7.1. UNIT UNDER TEST OVERVIEW

Test Date	1 January 2012
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198045

7.2. TECHNICAL SOURCE

- EN50155 Railways Applications.

7.3. TEST INSTRUMENTATION

No.	Manufacturer / Model	Calibration Expired Date
1.	LANSMONT Model PDT56ED	N.C.R

7.4. TEST PROCEDURE

7.4.1. EXCLUSIONS FROM THE TEST METHOD

Not applicable.

7.4.2. FREE FALL TEST PROCEDURE DESCRIPTION

Item Condition	Packed.
Type of Drops	Aimed.
Drop Height	1M
Number of Drops of Test Item	2 drops on each face
Total Number of Drops	12 drops

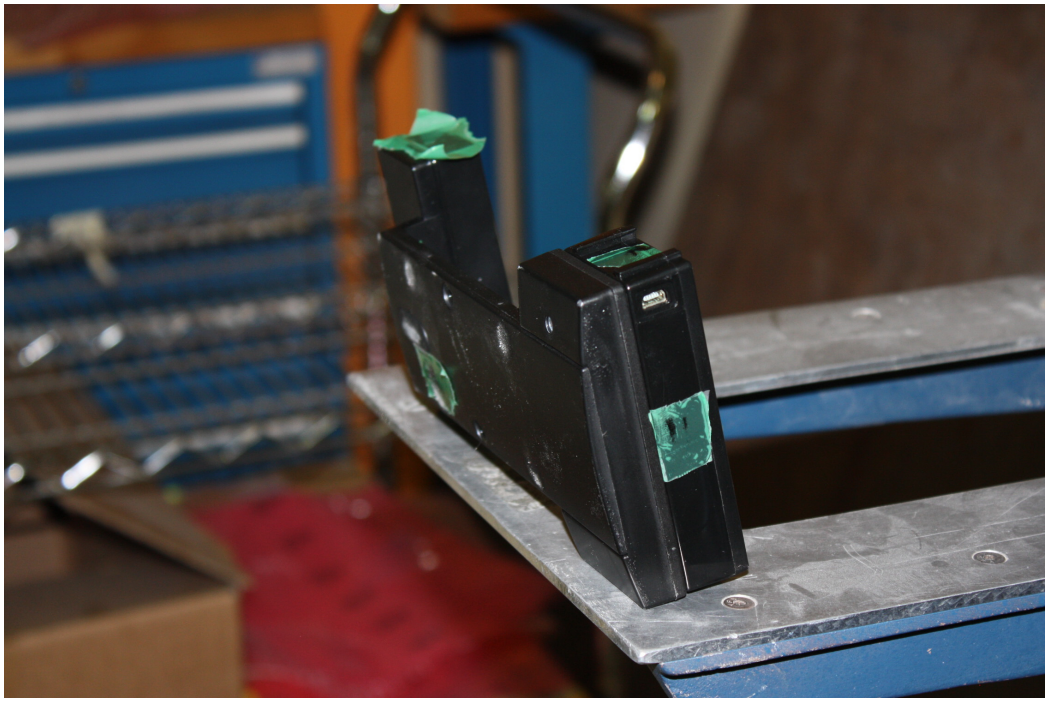
7.4.3. TEST PERFORMANCE

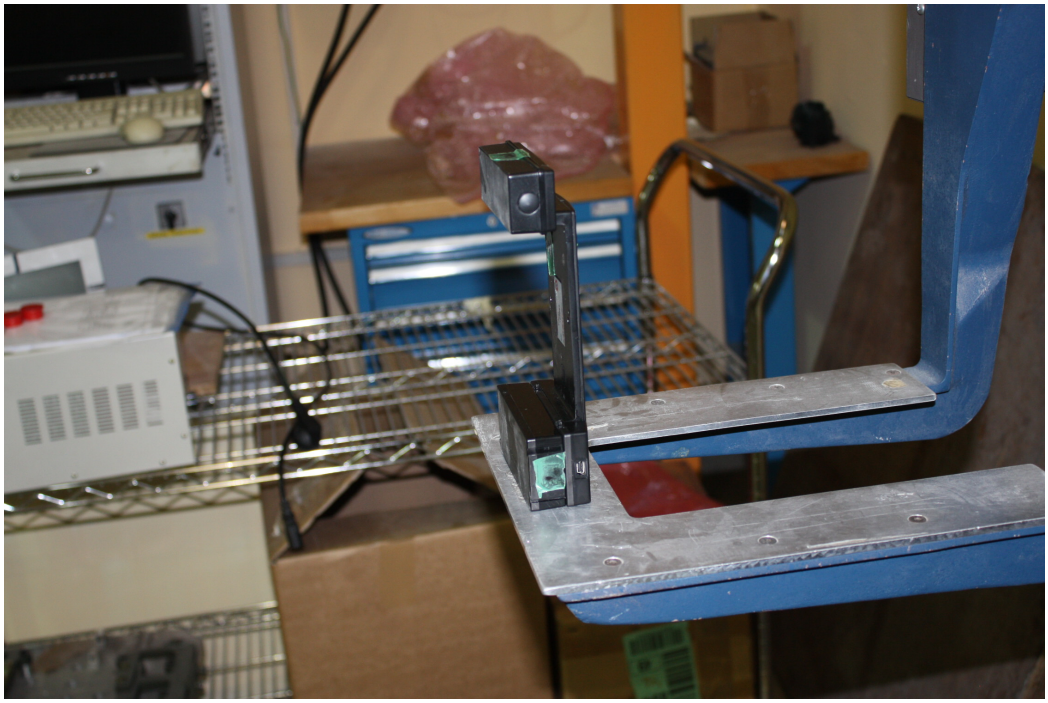
Visual Test	• Performed by Customer representative at the end of test.
Functional Test	• Performed by Customer representative at the end of test.

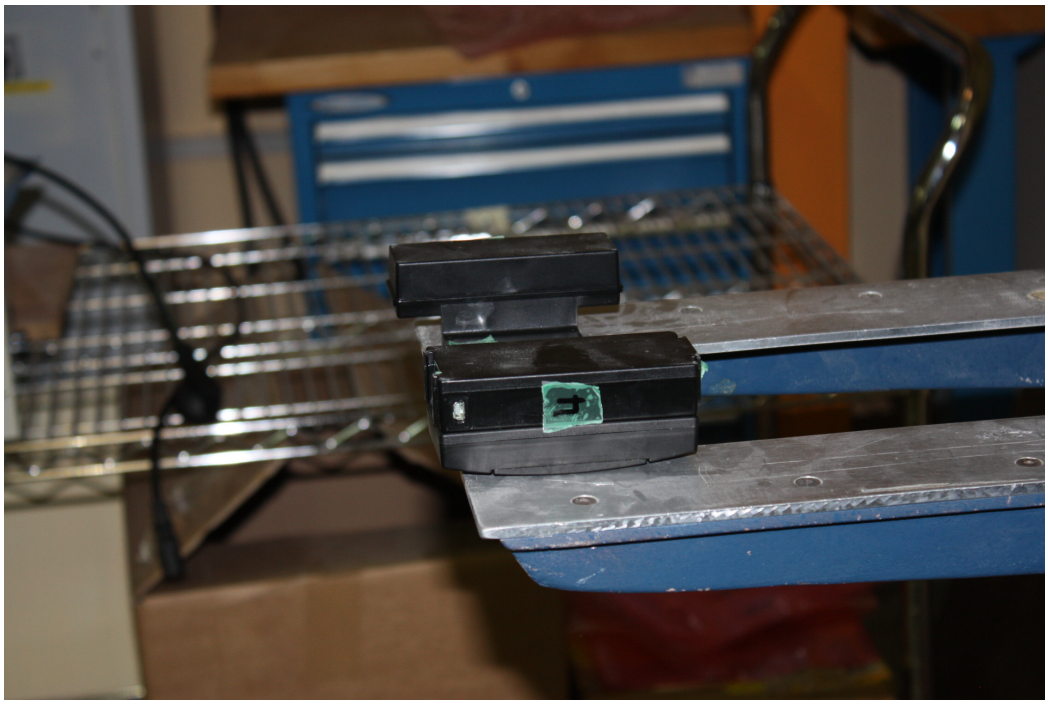
7.4.4. TEST RESULTS

In visual inspection at completion of the test, no external damage observed.
The customer representatives have conducted operational and visual tests at the end of the test.
Pass O.K.

7.4.5. TEST PICTURES







8. SALT FOG TEST

8.1. UNIT UNDER TEST OVERVIEW

Test Date	1-3 January 2012
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044

8.2. TECHNICAL SOURCE

- EN50155 Railways Applications

8.3. TEST INSTRUMENTATION

No.	Manufacturer / Model	Calibration Expired Date
1.	Salt Spray Test Chamber: SINGLETON Model SCCH # 21	30 June 2012

8.4. TEST PROCEDURE

8.4.1. EXCLUSIONS FROM THE TEST METHOD

Not applicable.

8.4.2. SALT FOG TEST PROCEDURE DESCRIPTION

Salt Solution	5%.
Chamber Temperature	+35°C.
Test Period	48 Hours

8.4.3. TEST PERFORMANCE

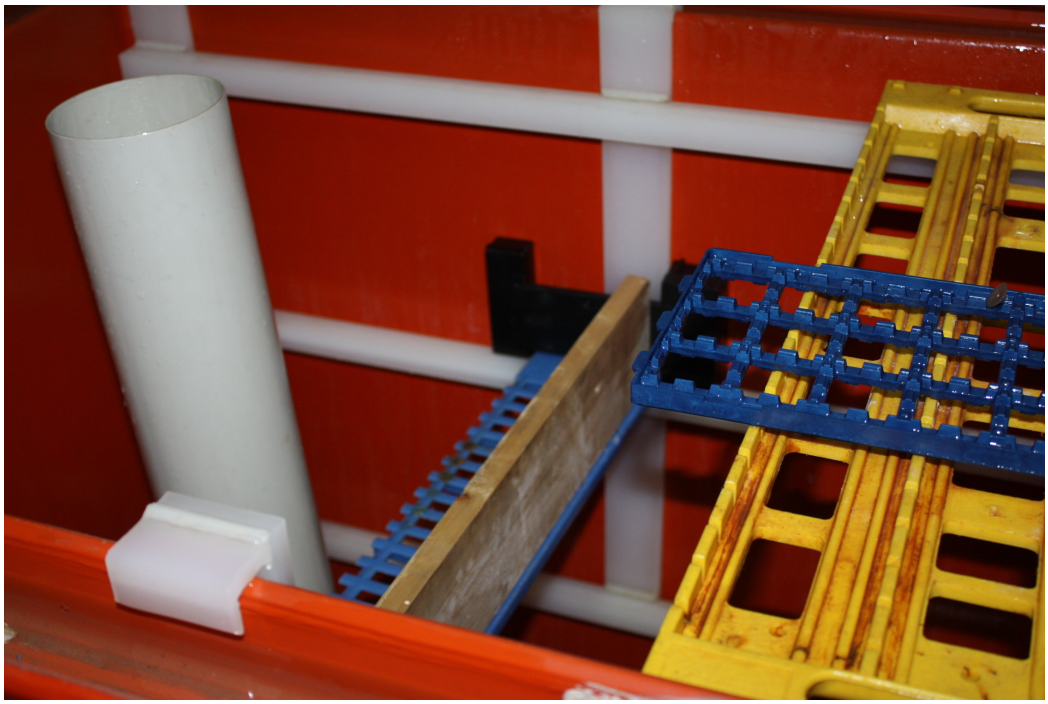
Visual Test	• Performed by customer representative at the end of the test.

8.5. TEST RESULTS

In visual inspection at completion of the test, no external damage observed.
The customer representatives, at the end of the test, have conducted visual test.
Pass O.K.

During the test the units was connected thru the GPRS network and transmitted information during the entire test cycle. Transmissions report can be found in appendix A and in Starcom's online monitoring application

8.6. TEST PICTURES



9. WATER JETTING TEST (IPX6)

9.1. UNIT UNDER TEST OVERVIEW

Test Date	8 January 2012
Customer Representative	MAXIM PRILUTSKY
Customer	STARCOM SYSTEMS SA
Unit Name	TRITON
Item Manufacturer	STARCOM SYSTEMS SA
SN	198044

9.2. TECHNICAL SOURCE

- CEI / IEC 60529: 1989+A1: 1999
  Degrees of protection provided by enclosures (IP Code).
  Paragraph 14.2.5 - Test for second characteristic numeral 5 with the 6.3 mm nozzle.

9.3. TEST INSTRUMENTATION

Instrumentation Name	Serial Number	Calibration Expired Date
PTL water jet hose nozzle set	5040278	30June 2012

9.4. TEST PROCEDURE

9.5. EXCLUSIONS FROM THE TEST METHOD

Not applicable.

9.6. WATER JETTING TEST PROCEDURE DESCRIPTION

The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle.
The conditions which have been observed are as follows:

- Internal diameter of the nozzle: 12.5 mm.
- Delivery rate: 100 l/min ±5 %.
- Water pressure: to be adjusted to achieve the specified delivery rate.
- Minimum test duration: 3 minutes. (45 seconds for each face)
- Distance from nozzle to enclosure surface: between 2.5 m and 3 m.

9.7. TEST PERFORMANCE

Visual Test	• Performed by customer representative at the end of test.

9.8. TEST RESULTS

There was no evidence of water penetration into the test item near the connectors following the (IPX6) test

9.9. TEST PICTURES

10. APPENDIX A
Units test monitoring

Unit Number	Time	Reason
198051	26/12/2011 08:55	Tracking
198051	26/12/2011 09:49	Tracking
198051	26/12/2011 10:52	Tracking
198051	26/12/2011 11:57	Tracking
198051	26/12/2011 12:52	Tracking
198051	26/12/2011 13:52	Tracking
198051	26/12/2011 14:57	Tracking
198051	26/12/2011 15:52	Tracking
198051	26/12/2011 16:58	Tracking
198051	27/12/2011 09:32	Tracking
198051	27/12/2011 10:31	Tracking
198051	27/12/2011 11:35	Tracking
198051	27/12/2011 12:34	Tracking
198051	27/12/2011 13:32	Tracking
198051	27/12/2011 14:33	Tracking
198051	27/12/2011 15:38	Tracking
198051	27/12/2011 16:42	Tracking
198051	27/12/2011 17:42	Tracking
198051	27/12/2011 18:47	Tracking
198051	27/12/2011 19:41	Tracking
198051	27/12/2011 20:40	Tracking
198051	27/12/2011 21:44	Tracking
198051	27/12/2011 22:39	Tracking
198051	27/12/2011 23:47	Tracking
198051	28/12/2011 00:52	Tracking
198051	28/12/2011 01:52	Tracking
198051	28/12/2011 02:56	Tracking
198051	28/12/2011 03:06	Tracking
198051	28/12/2011 03:20	Tracking
198051	28/12/2011 03:30	Tracking
198051	28/12/2011 03:40	Tracking
198051	28/12/2011 03:50	Tracking
198051	28/12/2011 04:05	Tracking
198051	28/12/2011 04:15	Tracking
198051	28/12/2011 04:25	Tracking
198051	28/12/2011 04:35	Tracking
198051	28/12/2011 04:50	Tracking

198051	28/12/2011 05:00	Tracking
198051	28/12/2011 05:10	Tracking
198051	28/12/2011 05:20	Tracking
198051	28/12/2011 05:35	Tracking
198051	28/12/2011 05:45	Tracking
198051	28/12/2011 06:49	Tracking
198051	28/12/2011 07:58	Tracking
Unit Number	Time	Reason
198044	26/12/2011 16:37	Tracking
198044	26/12/2011 17:32	Tracking
198044	26/12/2011 18:32	Tracking
198044	26/12/2011 19:32	Tracking
198044	26/12/2011 20:32	Tracking
198044	26/12/2011 21:32	Tracking
198044	26/12/2011 22:32	Tracking
198044	26/12/2011 23:32	Tracking
198044	27/12/2011 00:32	Tracking
198044	27/12/2011 01:32	Tracking
198044	27/12/2011 02:32	Tracking
198044	27/12/2011 03:32	Tracking
198044	27/12/2011 04:32	Tracking
198044	27/12/2011 05:32	Tracking
198044	27/12/2011 06:32	Tracking
198044	27/12/2011 07:32	Tracking
198044	27/12/2011 08:32	Tracking
198044	27/12/2011 09:32	Tracking
198044	27/12/2011 10:32	Tracking
198044	27/12/2011 11:32	Tracking
198044	27/12/2011 12:32	Tracking
198044	27/12/2011 13:32	Tracking
198044	27/12/2011 14:32	Tracking
198044	27/12/2011 15:27	Tracking

Triton 198044		
Received	Reason	Main power
30/12/2011 11:00	Ping	
30/12/2011 11:04	Tracking	4.13
30/12/2011 11:05	Ping	
30/12/2011 11:10	Tracking	4.13
30/12/2011 11:11	Ping	
30/12/2011 11:15	Tracking	4.13

30/12/2011 11:16	Ping	
30/12/2011 11:20	Tracking	4.15
30/12/2011 11:21	Ping	
30/12/2011 11:26	Tracking	4.13
30/12/2011 11:27	Ping	
30/12/2011 11:31	Tracking	4.13
30/12/2011 11:32	Ping	
30/12/2011 11:37	Tracking	4.13
30/12/2011 11:37	Ping	
30/12/2011 11:42	Tracking	4.13
30/12/2011 11:43	Ping	
30/12/2011 11:47	Tracking	4.13
30/12/2011 11:48	Ping	
30/12/2011 11:53	Tracking	4.13
30/12/2011 11:53	Ping	
30/12/2011 11:58	Tracking	4.13
30/12/2011 11:59	Ping	
30/12/2011 12:03	Tracking	4.13
30/12/2011 12:04	Ping	
30/12/2011 12:09	Tracking	4.13
30/12/2011 12:09	Ping	
30/12/2011 12:14	Tracking	4.13
30/12/2011 12:14	Ping	
30/12/2011 12:20	Tracking	4.13
30/12/2011 12:20	Ping	
30/12/2011 12:24	Door Closed	4.16
30/12/2011 12:24	Deinstalled	4.13
30/12/2011 12:24	Ping	
30/12/2011 12:25	Tracking	4.13
30/12/2011 12:26	Ping	

Triton 198044		
Received	Reason	Main power
01/01/2012 14:36	Ping	
01/01/2012 14:36	Tracking	4.2
01/01/2012 14:40	Tracking	4.2
01/01/2012 14:41	Ping	
01/01/2012 14:45	Tracking	4.2
01/01/2012 14:46	Ping	
01/01/2012 14:51	Tracking	4.19
01/01/2012 14:52	Ping	
01/01/2012 14:56	Tracking	4.19

01/01/2012 14:57	Ping	
01/01/2012 15:01	Tracking	4.19
01/01/2012 15:02	Ping	
01/01/2012 15:07	Tracking	4.19
01/01/2012 15:08	Ping	
01/01/2012 15:12	Tracking	4.19
01/01/2012 15:13	Ping	
01/01/2012 15:17	Tracking	4.18
01/01/2012 15:18	Ping	
01/01/2012 15:22	Tracking	4.18
01/01/2012 15:23	Ping	
01/01/2012 15:27	Tracking	4.19
01/01/2012 15:28	Ping	
01/01/2012 15:33	Tracking	4.18
01/01/2012 15:33	Ping	
01/01/2012 15:38	Tracking	4.18
01/01/2012 15:38	Ping	
01/01/2012 15:43	Tracking	4.18
01/01/2012 15:43	Ping	
01/01/2012 15:48	Tracking	4.19
01/01/2012 15:48	Ping	
01/01/2012 15:53	Tracking	4.18
01/01/2012 15:54	Ping	
01/01/2012 15:59	Tracking	4.18
01/01/2012 15:59	Ping	
01/01/2012 16:04	Tracking	4.17
01/01/2012 16:04	Ping	
01/01/2012 16:09	Tracking	4.17
01/01/2012 16:09	Ping	
01/01/2012 16:14	Tracking	4.19
01/01/2012 16:14	Ping	
01/01/2012 16:19	Tracking	4.17
01/01/2012 16:20	Ping	
01/01/2012 16:25	Tracking	4.17
01/01/2012 16:25	Ping	
01/01/2012 16:30	Tracking	4.17
01/01/2012 16:30	Ping	
01/01/2012 16:35	Tracking	4.17
01/01/2012 16:35	Ping	
01/01/2012 16:40	Tracking	4.17
01/01/2012 16:40	Ping	
01/01/2012 16:45	Tracking	4.17
01/01/2012 16:46	Ping	

01/01/2012 16:51	Tracking	4.17
01/01/2012 16:51	Ping	
01/01/2012 16:56	Tracking	4.17
01/01/2012 16:56	Ping	
01/01/2012 17:01	Tracking	4.17
01/01/2012 17:02	Ping	
01/01/2012 17:07	Tracking	4.17
01/01/2012 17:07	Ping	
01/01/2012 17:12	Tracking	4.18
01/01/2012 17:12	Ping	
01/01/2012 17:17	Tracking	4.17
01/01/2012 17:17	Ping	
01/01/2012 17:22	Tracking	4.16
01/01/2012 17:22	Ping	
01/01/2012 17:27	Tracking	4.17
01/01/2012 17:27	Ping	
01/01/2012 17:32	Tracking	4.17
01/01/2012 17:32	Ping	
01/01/2012 17:37	Tracking	4.16
01/01/2012 17:43	Tracking	4.16
01/01/2012 17:43	Ping	
01/01/2012 17:48	Tracking	4.16
01/01/2012 17:48	Ping	
01/01/2012 17:53	Tracking	4.16
01/01/2012 17:53	Ping	
01/01/2012 17:58	Tracking	4.16
01/01/2012 17:58	Ping	
01/01/2012 18:03	Tracking	4.16
01/01/2012 18:04	Ping	
01/01/2012 18:09	Tracking	4.16
01/01/2012 18:09	Ping	
01/01/2012 18:14	Tracking	4.15
01/01/2012 18:14	Ping	
01/01/2012 18:19	Tracking	4.16
01/01/2012 18:19	Ping	
01/01/2012 18:24	Tracking	4.16
01/01/2012 18:24	Ping	
01/01/2012 18:29	Tracking	4.15
01/01/2012 18:30	Ping	
01/01/2012 18:35	Tracking	4.15
01/01/2012 18:35	Ping	
01/01/2012 18:40	Tracking	4.16
01/01/2012 18:40	Ping	

01/01/2012 18:45	Tracking	4.15
01/01/2012 18:45	Ping	
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01/01/2012 18:50	Ping	
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01/01/2012 19:01	Tracking	4.15
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01/01/2012 19:06	Tracking	4.15
01/01/2012 19:06	Ping	
01/01/2012 19:11	Tracking	4.15
01/01/2012 19:11	Ping	
01/01/2012 19:16	Tracking	4.15
01/01/2012 19:16	Ping	
01/01/2012 19:21	Tracking	4.15
01/01/2012 19:22	Ping	
01/01/2012 19:27	Tracking	4.15
01/01/2012 19:27	Ping	
01/01/2012 19:32	Tracking	4.15
01/01/2012 19:32	Ping	
01/01/2012 19:37	Tracking	4.15
01/01/2012 19:37	Ping	
01/01/2012 19:42	Tracking	4.15
01/01/2012 19:42	Ping	
01/01/2012 19:47	Tracking	4.15
01/01/2012 19:48	Ping	
01/01/2012 19:53	Tracking	4.15
01/01/2012 19:53	Ping	
01/01/2012 19:58	Tracking	4.15
01/01/2012 19:59	Ping	
01/01/2012 20:03	Tracking	4.13
01/01/2012 20:03	Ping	
01/01/2012 20:08	Tracking	4.15
01/01/2012 20:09	Ping	
01/01/2012 20:14	Tracking	4.13
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01/01/2012 20:19	Tracking	4.13
01/01/2012 20:20	Ping	
01/01/2012 20:24	Tracking	4.13
01/01/2012 20:25	Ping	
01/01/2012 20:29	Tracking	4.13
01/01/2012 20:30	Ping	
01/01/2012 20:34	Tracking	4.13

01/01/2012 20:35	Ping	
01/01/2012 20:40	Tracking	4.13
01/01/2012 20:40	Ping	
01/01/2012 20:45	Tracking	4.13
01/01/2012 20:46	Ping	
01/01/2012 20:50	Tracking	4.13
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01/01/2012 22:08	Tracking	4.12
01/01/2012 22:09	Ping	
01/01/2012 22:13	Tracking	4.12
01/01/2012 22:14	Ping	
01/01/2012 22:18	Tracking	4.13
01/01/2012 22:19	Ping	
01/01/2012 22:24	Tracking	4.12
01/01/2012 22:24	Ping	

01/01/2012 22:29	Tracking	4.12
01/01/2012 22:30	Ping	
01/01/2012 22:34	Tracking	4.12
01/01/2012 22:35	Ping	
01/01/2012 22:39	Tracking	4.12
01/01/2012 22:40	Ping	
01/01/2012 22:44	Tracking	4.12
01/01/2012 22:45	Ping	
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01/01/2012 23:00	Tracking	4.12
01/01/2012 23:01	Ping	
01/01/2012 23:05	Tracking	4.12
01/01/2012 23:06	Ping	
01/01/2012 23:10	Tracking	4.12
01/01/2012 23:11	Ping	
01/01/2012 23:16	Tracking	4.12
01/01/2012 23:16	Ping	
01/01/2012 23:21	Tracking	4.12
01/01/2012 23:22	Ping	
01/01/2012 23:26	Tracking	4.12
01/01/2012 23:27	Ping	
01/01/2012 23:32	Tracking	4.12
01/01/2012 23:32	Ping	
01/01/2012 23:37	Tracking	4.12
01/01/2012 23:38	Ping	
01/01/2012 23:42	Tracking	4.12
01/01/2012 23:43	Ping	
01/01/2012 23:47	Tracking	4.12
01/01/2012 23:48	Ping	
01/01/2012 23:52	Tracking	4.11
01/01/2012 23:53	Ping	
01/01/2012 23:57	Tracking	4.11
01/01/2012 23:58	Ping	
02/01/2012 00:02	Tracking	4.12
02/01/2012 00:03	Ping	
02/01/2012 00:08	Tracking	4.11
02/01/2012 00:08	Ping	
02/01/2012 00:13	Tracking	4.11
02/01/2012 00:14	Ping	
02/01/2012 00:18	Tracking	4.12

02/01/2012 00:19	Ping	
02/01/2012 00:24	Tracking	4.11
02/01/2012 00:25	Ping	
02/01/2012 00:29	Tracking	4.11
02/01/2012 00:30	Ping	
02/01/2012 00:34	Tracking	4.11
02/01/2012 00:35	Ping	
02/01/2012 00:39	Tracking	4.11
02/01/2012 00:40	Ping	
02/01/2012 00:44	Tracking	4.09
02/01/2012 00:45	Ping	
02/01/2012 00:49	Tracking	4.11
02/01/2012 00:50	Ping	
02/01/2012 00:54	Tracking	4.11
02/01/2012 00:55	Ping	
02/01/2012 01:00	Tracking	4.11
02/01/2012 01:01	Ping	
02/01/2012 01:05	Tracking	4.11
02/01/2012 01:06	Ping	
02/01/2012 01:10	Tracking	4.09
02/01/2012 01:11	Ping	
02/01/2012 01:15	Tracking	4.09
02/01/2012 01:16	Ping	
02/01/2012 01:20	Tracking	4.11
02/01/2012 01:21	Ping	
02/01/2012 01:26	Tracking	4.11
02/01/2012 01:27	Ping	
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02/01/2012 01:36	Tracking	4.11
02/01/2012 01:37	Ping	
02/01/2012 01:41	Tracking	4.09
02/01/2012 01:42	Ping	
02/01/2012 01:46	Tracking	4.11
02/01/2012 01:47	Ping	
02/01/2012 01:52	Tracking	4.09
02/01/2012 01:53	Ping	
02/01/2012 01:57	Tracking	4.09
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02/01/2012 02:08	Ping	

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02/01/2012 13:20	Ping	

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02/01/2012 16:40	Ping	
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02/01/2012 19:07	Ping	
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02/01/2012 19:17	Ping	
02/01/2012 19:22	Tracking	3.98