




ENVIRONMENTAL TEST REPORT OF 406 MHz EPIRB		Number of pages : 497
INTESPACE Reference E.09788.B	Client KANNAD	INTESPACE Test Division ES


Test Type(s)				
<input checked="" type="checkbox"/> RTCM	<input type="checkbox"/> ETSI	<input type="checkbox"/> IEC	<input checked="" type="checkbox"/> TP4522	<input type="checkbox"/> AS/NZS

Equipment in Test
406 MHz Emergency Position Indicating Radio Beacon KANNAD SAFELINK

	Name	Date	Signature
Written by	ESQUEVIN F.	11/09/09	
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Addresses	Client : Supply of 1 CD-R INTESPACE : 1 copy		


	<p align="center"><b>Equipment in test</b></p> <p align="center">KANNAD SAFELINK</p>	<p align="center"><b>INTESPACE Reference</b></p> <p align="center">E.09788.B</p>
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	<b>Equipment in test</b>  KANNAD SAFELINK	<b>INTESPACE Reference</b>  E.09788.B
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## CHAPTER 1

### ADMINISTRATION, GENERAL COMMENTS AND SUMMARY OF TESTS

	<p align="center"><b>Equipment in test</b></p> <p align="center">KANNAD SAFELINK</p>	<p align="center"><b>INTESPACE Reference</b></p> <p align="center">E.09788.B</p>
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## 1.1 GENERAL COMMENTS

This document reports the procedures and results of certification tests on 406-MHz SARSAT beacons. The tests were conducted for the United States Coast Guard (USCG) by INTESPACE (ITS)

## 1.2 ADMINISTRATION

### 1.2.1 WORK ORDER

Manufacturer : KANNAD  
Address : BP 23 – ZI des cinq chemins  
58520 GUIDEL – FRANCE

Represented by : Stéphane JINCHELEAU

### 1.2.2 INTESPACE TEST CENTER


The test operations have been conducted by :  
Gérard PEYROU  
François ESQUEVIN

### 1.2.3 SCHEDULE

Start of test : June 18<sup>th</sup> 2009  
End of test : October 6<sup>th</sup> 2009

### 1.2.4 WORK REFERENCE


E.09788

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#### 1.2.5 EQUIPEMENT UNDER TEST

The results from this test report concern only the equipments referenced below:

Equipment Under Test (EUT)	Model	Beacon serial number	Float free system auto-release mechanism	Comments
9	SafeLink Auto/Manual+	9	SafeLink Bracket n°3	- nominal EPIRB for C/S antenna & satellite tests and complementary environmental tests
10	SafeLink Auto/Manual+	10		- nominal EPIRB for complementary environmental tests
11	SafeLink Auto/Manual+	11	SafeLink Bracket n°5	- nominal EPIRB for complementary environmental tests
12	SafeLink Auto/Manual+	12	SafeLink Bracket n°4	-Antenna disconnected - EPIRB 50 Ω fitted for C/S electrical checking and environmental main test file

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### 1.3 TEST FACILITIES

- ARGOS – COSPAS/SARSAT Certification Test Bench
- INTESPACE Enviromental Test Equipements
- Toulouse CNES MCC


### 1.4 STANDARDS AND TEST PROCEDURES APPLICABLES

- **COSPAS-SARSAT standards :**
  - "C/S T. 001 – Issue 3 – Revision 9 – October 2008"
  - "C/S T. 007 – Issue 4 – Revision 8 – October 2008"
- **RTCM Recommended Standards** For 406 MHz Satellite Emergency Position-Indicating Radiobeacons (EPIRBs) - Version 2.1 - June 20, 2002
- **TP4522 (E) :** Performance standard for 406MHz Satellite Emergency Position Locating Radiobeacons (EPIRBs)
- INTESPACE Radiobeacon Test Procedures

### 1.5 TEST SEQUENCE

#### 1.5.1 SERIES OF TESTS RUN IN ORDER WITH EUT12 :

	TEST	RTCM ITEM
1	Initial Alivness Test	(A 1.0)
2	Dry Heat Test	(A 3.0)
3	Damp Heat Test	(A 4.0)
4	Vibration Test	(A 5.0)
5	Bump Test	(A 6.0)
6	Salt Fog Test	(A 7.0)
7	Drop Tests	(A 8.0)
8	Leakage and Immersion Tests	(A 9.0)
9	Spurious Emission Test	(A 10.0)
10	Thermal shock Tests	(A 11.0)
11	Cospas-Sarsat C/S T.007 Tests	(A 12.0)
12	Operational Life, Strobe Light and Self Tests	(A 13.0)

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#### 1.5.2 SERIES OF TESTS RUN ANY TIME DURING THE SEQUENCE :

TEST	RTCM ITEM
Automatic Release Mechanism & Automatic Activation Tests	(A 14.0)
Stability & Buoyancy Test	(A 15.0)
Inadvertent Activation Test	(A 16.0)
Auxiliary Radio-Locating Device Transmitter Test	(A 17.0)
Humidity Test	(A 18.0)
Orientation Test	(A 19.0)

All beacons electronic are identical


## 1.6 RESULTS

See following pages Summary of Test results and following chapters Test Result Reports (data and graphs)

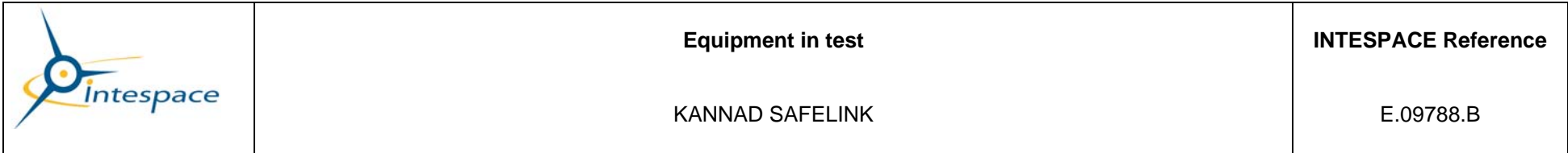
	<p><b>Equipment in test</b></p> <p>KANNAD SAFELINK</p>	<p><b>INTESPACE Reference</b></p> <p>E.09788.B</p>
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## SUMMARY OF TESTS





	<p align="center"><b>Equipment in test</b></p> <p align="center">KANNAD SAFELINK</p>	<p align="center"><b>INTESPACE Reference</b></p> <p align="center">E.09788.B</p>
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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( -30 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( + 70 to + 55 °C )	
<b>1. INITIAL ALIVENESS TEST (A2.0)</b>  * Carrier Frequency * Power Output * Data Message	406.037 ± 0.001 35 - 39 must be correct	MHz dBm √		406.036 933 35.88 √		<i>Results in Chapter 2</i>  Compliant Compliant Compliant
<b>2. DRY HEAT CYCLE (A3.0)</b>  • Aliveness Test (during 2 hour period)  * Carrier Frequency * Power Output * Data Message  • Aliveness Test (at end of 2 hour period)  * Carrier Frequency * Power Output * Data Message	406.037 ± 0.001 35 - 39 must be correct   406.037 ± 0.001 35 - 39 must be correct	MHz dBm √   MHz dBm √			406.036 947 35.92 √   406.036 887 35.93 √	<i>Results in Chapter 3</i>  Compliant Compliant Compliant   Compliant Compliant Compliant




	<p><b>Equipment in test</b></p> <p>KANNAD SAFELINK</p>	<p><b>INTESPACE Reference</b></p> <p>E.09788.B</p>
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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS		COMMENTS
			T min. ( ± 3 °C ) ( -30 to -20 °C)	T max. ( ± 3 °C ) ( +40 °C)	
<b>3. DAMP HEAT CYCLE (A4.0)</b>					<i>Results in Chapter 4</i>
• Aliveness Test (during 2 hour period)					
* Carrier Frequency	406.037 ± 0.001	MHz		406.036 942	Compliant
* Power Output	35 - 39	dBm		36.19	Compliant
* Data Message	must be correct	√		√	Compliant
• Aliveness Test ( end of 2 hour period)					
* Carrier Frequency	406.037 ± 0.001	MHz		406.036 947	Compliant
* Power Output	35 - 39	dBm		36.2	Compliant
* Data Message	must be correct	√		√	Compliant

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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( — °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( +40 °C )	
<b>4. VIBRATION TEST (A5.0)</b>  • Exterior Mechanical Inspection  * Carrier Frequency * Power Output * Data Message	No damage   406.037 ± 0.001 35 - 39 must be correct	√  MHz dBm √		√  406.036 926 36.51 √		<i>Results in Chapter 5</i>   Compliant Compliant Compliant


	<p align="center"><b>Equipment in test</b></p> <p align="center">KANNAD SAFELINK</p>	<p align="center"><b>INTESPACE Reference</b></p> <p align="center">E.09788.B</p>
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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( _____ °C )	T amb. ( ± 3 °C ) ( 22° )	T max. ( ± 3 °C ) ( _____ °C )	
<b>5. BUMP TEST (A6.0)</b> • Exterior Mechanical Inspection  * Carrier Frequency * Power Output * Data Message	No damage  406.037 ± 0.001 35 - 39 must be correct	√  MHz dBm √		√  406.036 926 36.51 √		<i>Results in Chapter 5</i>  Compliant  Compliant Compliant Compliant
<b>6. SALT FOG TEST (A7.0)</b>  • <b>UUT6 Aliveness Test</b> * Carrier Frequency * Power Output * Data Message  • Exterior Mechanical Inspection • Self Test	406.037 ± 0.001 35 - 39 must be correct  No damage must be correct	MHz dBm √  √ √		<b>T amb. ( ± 3 °C ) ( 35° )</b>  406.036 022 36.41 √  √ √		<i>Results in Chapter 6</i>  Compliant Compliant Compliant  Compliant Compliant


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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( - 30 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( _____ °C )	
<b>7-A. DROP TEST</b>  <b>On Hard Surface (A8.1)</b>  • Exterior Mechanical Inspection  • Aliveness Test  * Carrier Frequency * Power Output * Data Message	No damage     406.037 ± 0.001 35 - 39 must be correct	√    MHz dBm √	√   406.036 900 36.33 √			<i>Results in Chapter 7</i>   Compliant   Compliant Compliant Compliant
<b>7-B. DROP TEST</b>  <b>In Water (A8.2)</b>  • Exterior Mechanical Inspection  • Aliveness Test  * Carrier Frequency * Power Output * Data Message	No damage    406.037 ± 0.001 35 - 39 must be correct	√    MHz dBm √		√   406.036 879 36.36 √		<i>Results in Chapter 7</i>   Compliant   Compliant Compliant Compliant

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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( -20 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( 55 °C )	
<b>8. LEAKAGE AND IMMERSION TEST (A9.0)</b>  • Aliveness Test * Carrier Frequency * Power Output * Data Message • Interior Inspection	406.037 ± 0.001 35 - 39 must be correct No water	MHz dBm ✓ ✓		406.036 914 35.44 ✓ ✓	+70°C	<i>Results in Chapter 8</i>  Compliant Compliant Compliant Compliant
<b>9. SPURIOUS EMISSION TEST (A10.0)</b>  • 406 MHz  • 121.5 MHz	Figure 2-1  Figure 2-5	✓  ✓	✓  ✓	✓  ✓	✓  ✓	<i>Results in Chapter 9</i>  Compliant  Compliant

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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( - 30 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( +70 °C )	
<b>10. THERMAL SHOCK TEST (A11.0)</b>  <ul style="list-style-type: none"> <li>Self-activation in water</li> <li>Aliveness Test : <ul style="list-style-type: none"> <li>*Carrier Frequency</li> <li>* Power Output</li> <li>* Data Message</li> </ul> </li> <li>Frequency Stability <ul style="list-style-type: none"> <li>* Short term stability</li> <li>* Medium term stability :</li> <li>mean slope</li> </ul> </li> <li>residual frequency variation</li> </ul>	   $\leq 5$  $406.037 \pm 0.001$ 35 - 39 must be correct  $\leq 0.002$  $\leq 0.001$ $\leq 0.002$ C/S T.001 & T.007 Stds→  $\leq 0.003$	   minutes  MHz dBm √  parts/ million in 100 ms  parts/ million /minute  parts/ million	   -30°C → 0.1°C  < 0.1  406.0369268 36.4 √  $\leq 1.4E-10$  $\leq \pm 8.3E-10$  $\leq 8.7E-10$		   +70°C → +27°C  < 0.1  406.0369099 35.96 √  $\leq 1.5E-10$  $\leq \pm 6.7E-10$  $\leq 7.2E-10$	   <i>Results in Chapter 10</i>  Compliant  Compliant Compliant Compliant  Compliant  Compliant






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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( - 20 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( 55 °C )	
<b>13. STROBE LIGHT TEST (A13.2)</b>  <ul style="list-style-type: none"> <li>Flash rate</li> <li>Effective intensity</li> <li>Pulse duration</li> <li>Visibility</li> </ul>	20-30 >0.75 10 <sup>-6</sup> to 1	/min Cd S √	22 1.04 0.108 √	22 0.85 0.108 √	22 0.86 0.108 √	<i>Results in Chapter 12</i>  Compliant Compliant Compliant Compliant


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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( - 30 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( 70 °C )	
<b>14. AUTOMATIC RELEASE MECHANISM TEST (A14.0)</b>  <ul style="list-style-type: none"> <li>• Normal mounted orientation</li> <li>• Rolling 90° starboard</li> <li>• Rolling 90° port</li> <li>• Rolling 90° bow down</li> <li>• Rolling 90° stern down</li> <li>• Upside down</li> </ul>	Release and  float free before 4 meters ; automatic activation	√  √ √ √ √	X (4.80 m)	√  √ √ √ √	√	<i>Results in Chapter 13</i>  Exceeding specification. See explanations in Chapter 13 Compliant Compliant Compliant Compliant Compliant
<b>15. BUOYANCY AND STABILITY TEST (A15.0)</b>  <ul style="list-style-type: none"> <li>• Time to upright</li> <li>• Reserve buoyancy</li> <li>• Float upright ; Antenna base</li> </ul>	≤ 2 ≥ 5 > 4	s % cm		1 27.4 4		<i>Results in Chapter 14</i>  Compliant Compliant Compliant
<b>16. INADVERTENT ACTIVATION TEST (A16.0)°</b>  <ul style="list-style-type: none"> <li>• EUT not release from bracket</li> <li>• EUT not automatically activate</li> </ul>		√  √		√  √		<i>Results in Chapter 15</i>  Compliant  Compliant

	<p align="center"><b>Equipment in test</b></p> <p align="center">KANNAD SAFELINK</p>	<p align="center"><b>INTESPACE Reference</b></p> <p align="center">E.09788.B</p>
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PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( -40 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( 55 °C )	
<b>17. HOMING DEVICE TRANSMITTER TEST</b>  <b>• Carrier frequency</b>  <b>• Output Power (50 Ω)</b>  • Duty Cycle  <b>• Modulation</b> * Frequency * Direction * Duty cycle * Factor * Sweep repetition rate  <b>• Antenna</b> * EIRP * Pattern * Polarization * VSWR	121.5 ± 0.006  14-20  100  ≥ 700 Hz within range of 300-1600 Hz Upward 33-55 0.85-1.0 2 - 4  14 dBm ≤ EIRP ≤ 20 dBm Omnidirectional Vertical ≤ 1.5:1	MHz  dBm  %  Hz  √ % # Hz    √ √ √	121.5028  15.5  100  490-1330  √ 41 >0.85 2.85       	121.5017  16.4  100  510-1330  √ 40 >0.85 2.88  14.0  √ √ √	121.5008  16.6  100  500-1330  √ 40 >0.85 2.91       	<i>Results in Chapter 16</i>  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant  Compliant

	Equipment in test  KANNAD SAFELINK					INTESPACE Reference  E.09788.B
PARAMETERS TO BE MEASURED DURING TESTS	RANGE OF SPECIFICATION	UNITS	TEST RESULTS			COMMENTS
			T min. ( ± 3 °C ) ( - 30 °C )	T amb. ( ± 3 °C ) ( 22 °C )	T max. ( ± 3 °C ) ( 40 °C )	
<b>18. HUMIDITY TEST (A18.0)</b>  • Aliveness Test : * Carrier frequency * Power Output	406.037 ± 0.001 35-39	MHz dBm		406.036 865 35.97		Results in Chapter 17  Compliant Compliant
<b>19. ORIENTATION TEST (A19.0)</b>  <b>VERTICAL</b> • Aliveness Test : * Carrier frequency * Power Output  <b>UPSIDE DOWN</b> • Aliveness Test : * Carrier frequency * Power Output  <b>HORIZONTAL</b> • Aliveness Test : * Carrier frequency * Power Output	406.037 ± 0.001 35-39  406.037 ± 0.001 35-39  406.037 ± 0.001 35-39	MHz dBm  MHz dBm  MHz dBm		406.036 903 36.7  406.036 902 8 36.7  406.036 902 9 36.7		Results in Chapter 18  Compliant Compliant  Compliant Compliant  Compliant Compliant

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## 1.7 LABORATORY UNCERTAINTIES

UNCERTAINTY	Unit	Requirement +/-	Estimated +/-
REPETITION PERIOD	s	0,01	2.4E-03
CW PREAMBLE	ms	1,0	1.0E-02
TOTAL TRANSMISSION TIME	ms	1,0	1.0E-02
SPURIOUS POWER LEVEL	dB	2	1.6
BIT RATE	bits/s	0.6	0.01
NOMINAL FREQUENCY AT 406MHz	Hz	100	0.1
NOMINAL FREQUENCY AT 121,5MHz	Hz	100	10.8
FREQUENCY STABILITY (short term)	F0	1E-10	4.0E-11
FREQUENCY STABILITY (slope)	F0	1E-10	1.1E-11
TRANSMITTED POWER	dB	0.5	4.1E-01
POWER 1MS BEFORE 10% OF MAX	dB	n/a	3.3
CARRIER RISE TIME	ms	0.5	0.10
MODULATION RISE TIME	µs	25	12
PHASE MODULATION	rad	0.04	0.001
AMPLITUDE SYMMETRY	%	n/a	0.1
MODULATION SYMMETRY	%	1	0.7
CURRENT CONSUMPTION	%	n/a	5
TEMPERATURE NEAR BEACON	°C	2	1.7
CONTROL OF ENVIRONMENT TEMPERATURE	°C	n/a	0.9
ELECTROSTATIC DISCHARGE	kV	0.3	0.26
RF SUSCEPTIBILITY	dB	n/a	1.8
COMPASS SECURITY DISTANCE	cm	n/a	17
ANTENNA MEASUREMENT (406MHz)	dB	3	2
ANTENNA MEASUREMENT (121,5MHz)	dB	3	2.3
VSWR	n/a	n/a	0.2
SALT FOG	%NaCl	1	0.3
CONTROL OF ENVIRONMENT HUMIDITY	%HR	n/a	3.8
RELATIVE HUMIDITY NEAR BEACON	%HR	3	2.9
DROP TEST ON HARD SURFACE	cm	1	0.95
DROP TEST IN WATER	m	1	0.1
PRESSURE	hPa	20	10.1
SALT FOG pH	pH	n/a	0.2
HOSE STREAM	L/min	n/a	25
LEAKAGE DEEPNESS	cm	n/a	14
BUOYANCY	%	n/a	8
SOLAR RADIATION	W/m <sup>2</sup>	112	82
STROBE LIGHT INTENSITY	%	n/a	4.3

**All uncertainties are provided with a coverage factor  $k = 2$  ( 95% )**