

CHAPTER 8

SPURIOUS EMISSIONS TEST

8.1 TEST SPECIFICATIONS AND PROGRAMME

Following Section A8.0 of RTCM Recommended Standards for 406 MHz Satellite PLBs (Version 1.1 Feb 4, 2003) :

- Perform the spurious and harmonic emissions measurements for the 406 MHz and 121.5 MHz signals at the minimum, maximum, and ambient temperatures .
- Control, respectively, that measurements not exceed the limits given in Figure 2-1(406 MHz Spectrum Mask) and Figure 2-5 (121.5 MHz Spectrum Mask)

Note : These tests are performed during the COSPAS-SARSAT Type Approval tests (chapter 9)

8.2 EQUIPMENT UNDER TEST

Beacon Unit : 1/3
Name : ACR / TeraFixTM 406GPS I/O PLB
Type : PLB200
Number : 07

8.3 TEST SITE

Toulouse Space Center (CST) - INTESPACE Laboratory.

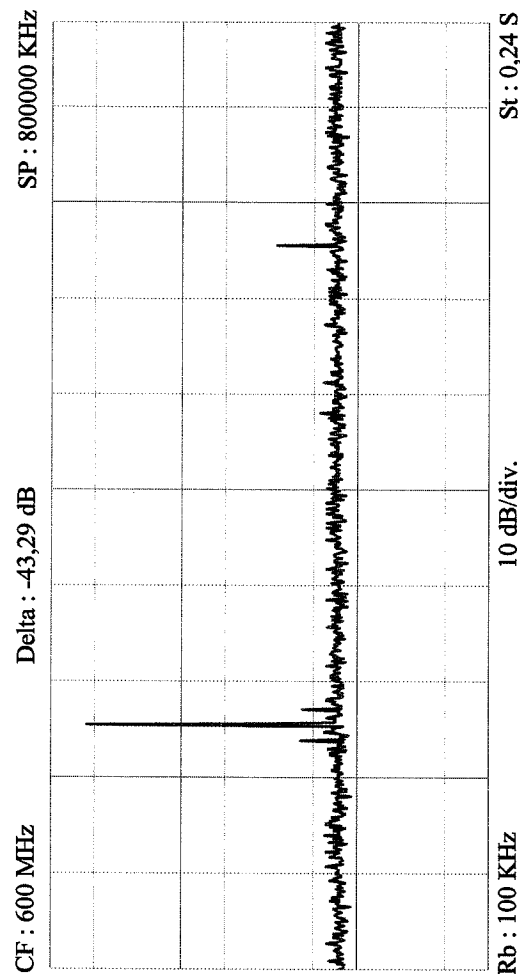
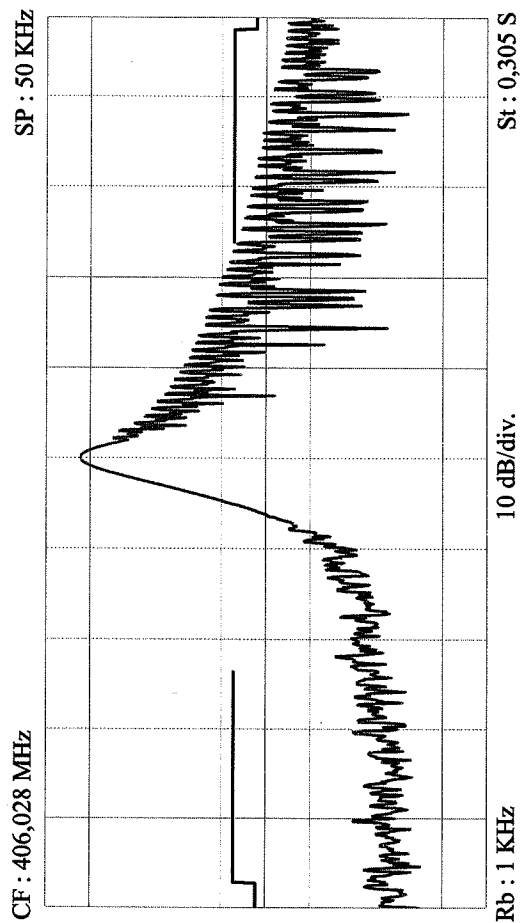
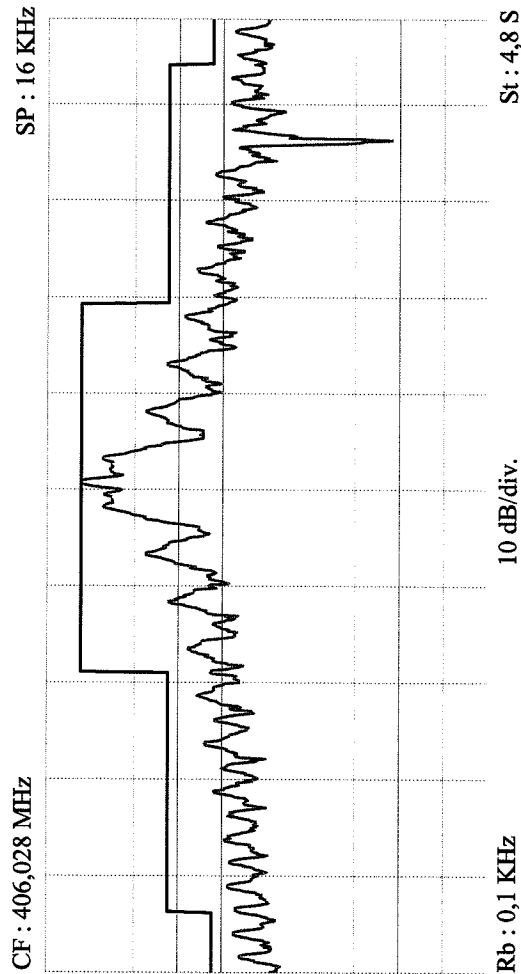
8.4 TEST EQUIPMENT

- Climatic chamber : CLIMATS F.C.H. – Type: Austral 137H60/1,5E - S/N: S4880.
- Argos - Cospas/Sarsat Test Bench

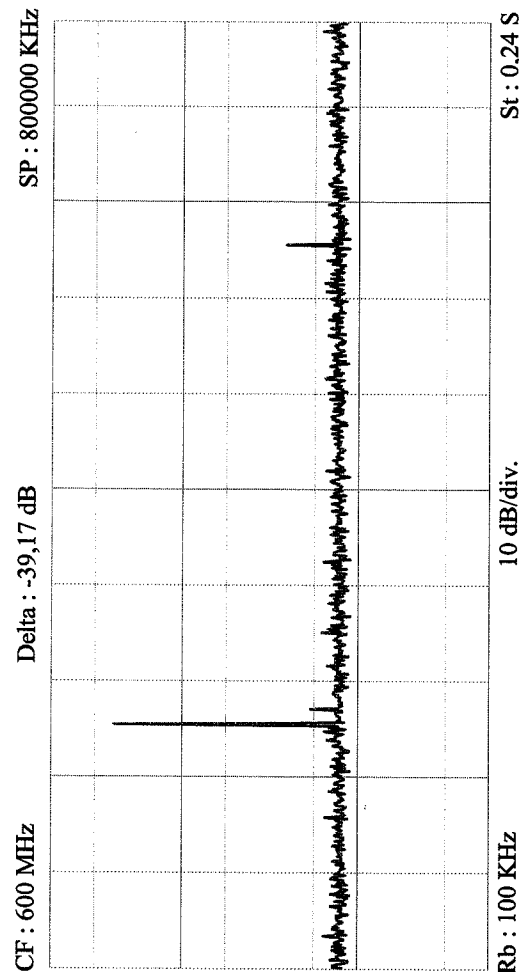
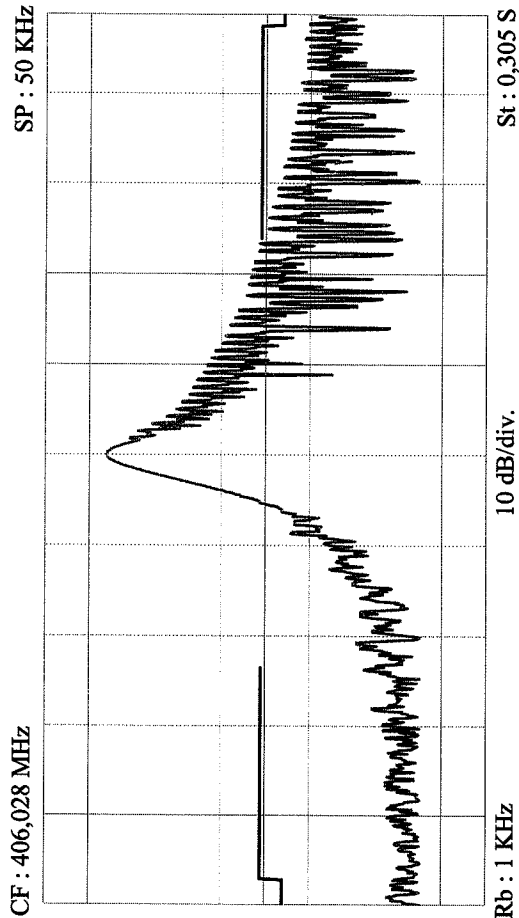
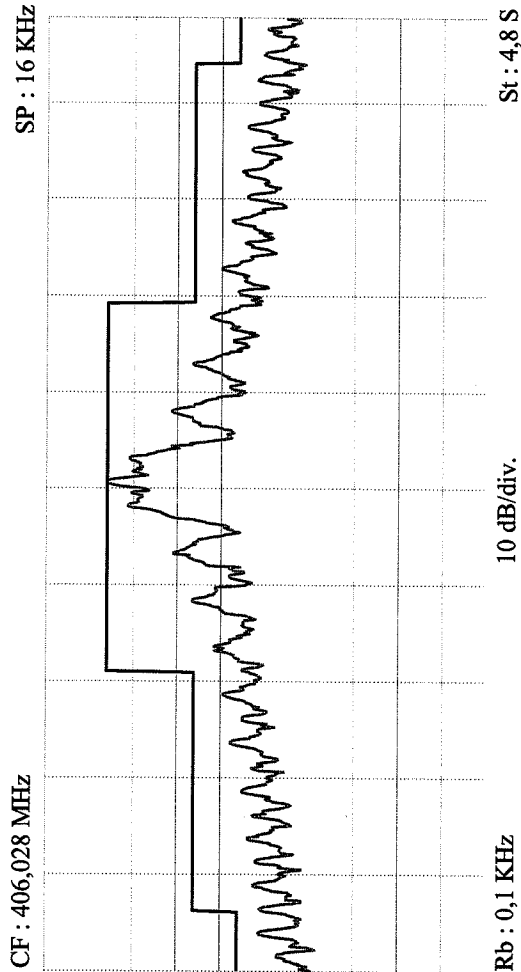
8.5. RESULTS

The graphs of spurious and harmonic measurements for the 406 MHz and 121.5 MHz signals are reported next pages :

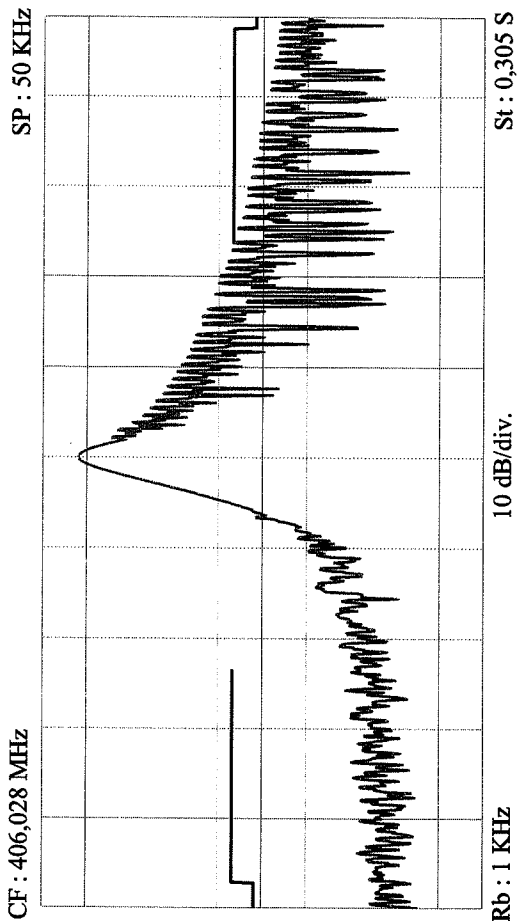
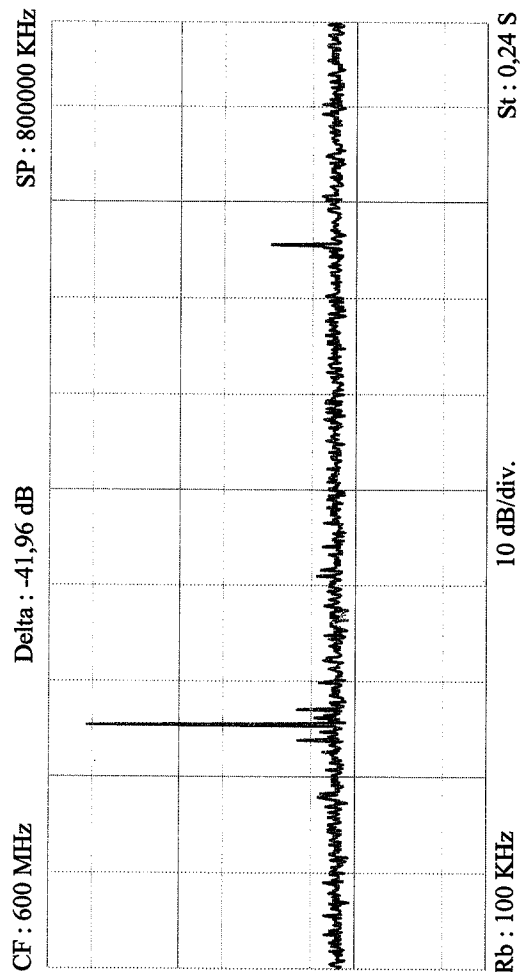
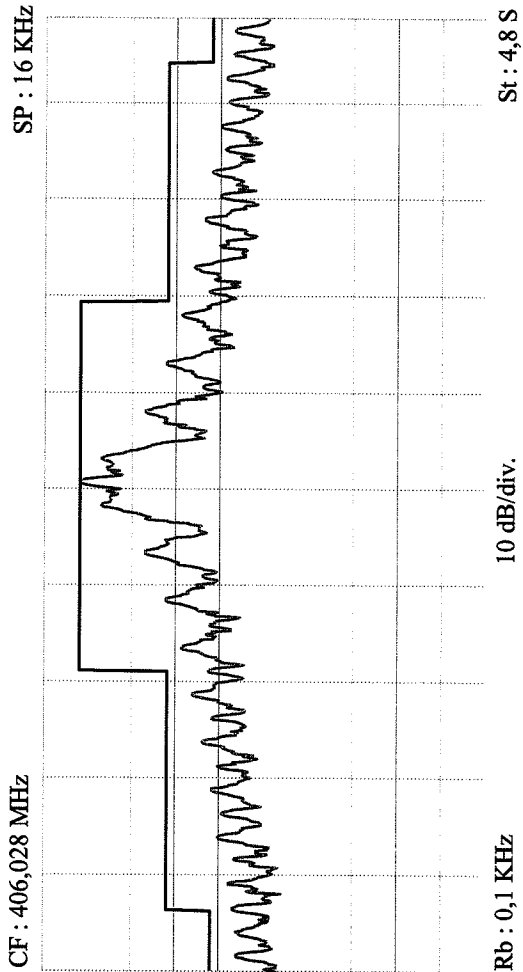
ACR Electronics, Inc
PLB 200
7
Certification nominale
406 MHz
-20 °C



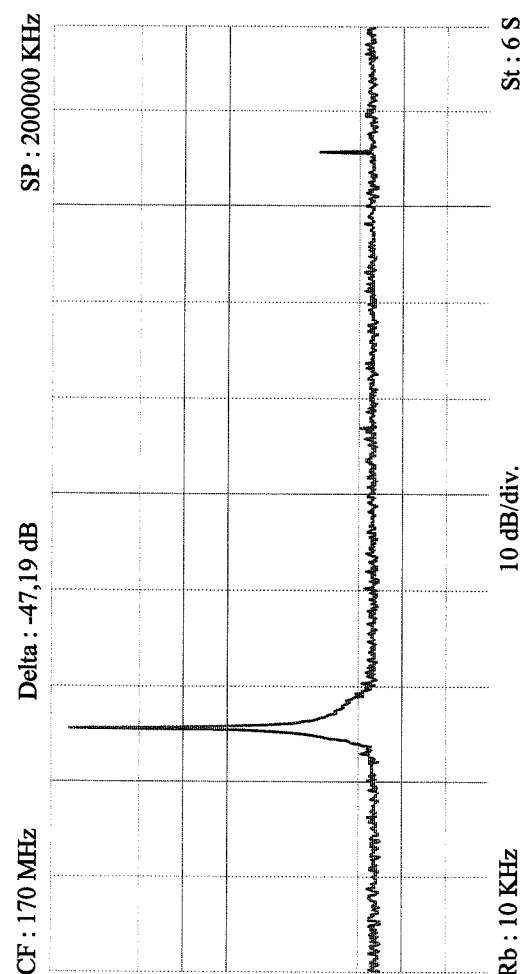
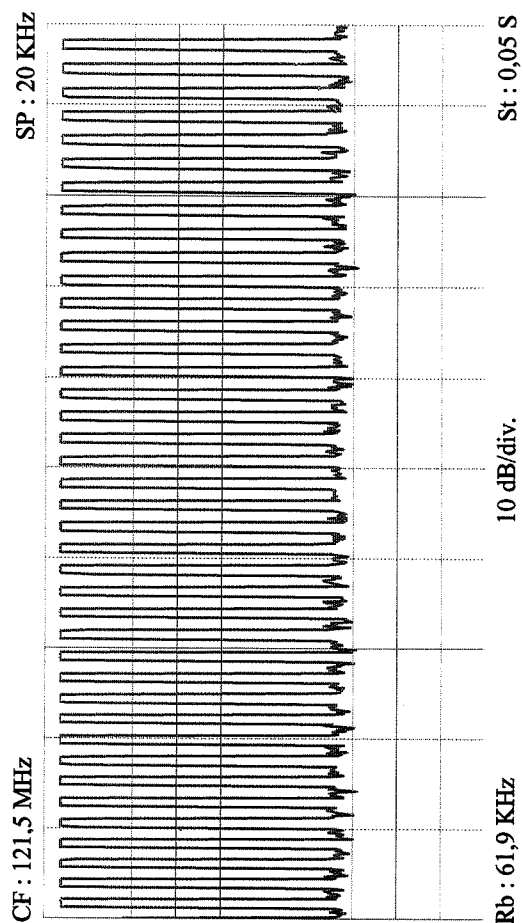
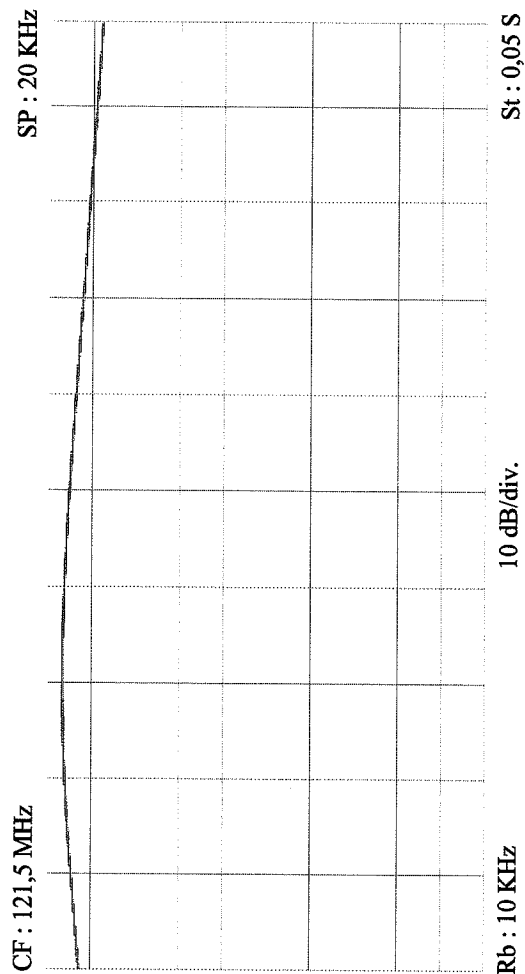
ACR Electronics, Inc
PLB 200
7
Certification nominale
406 MHz
22 °C



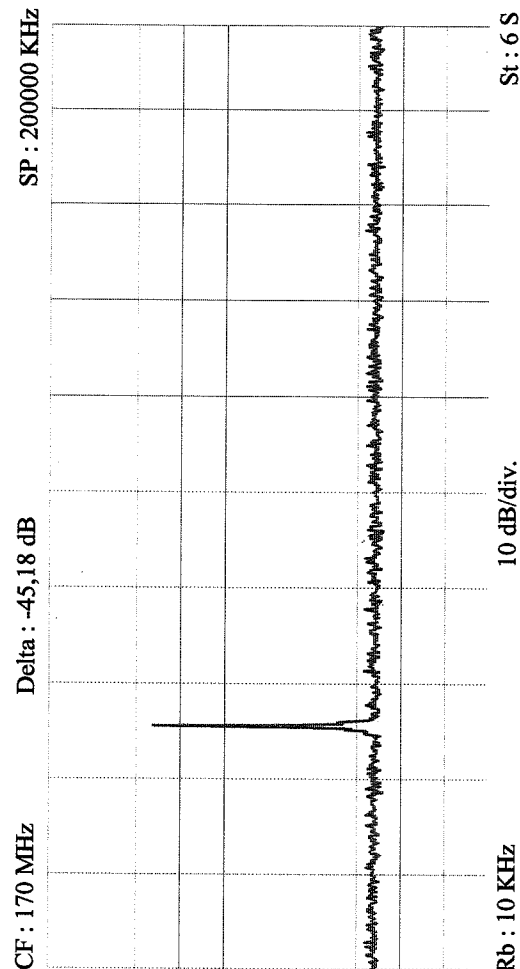
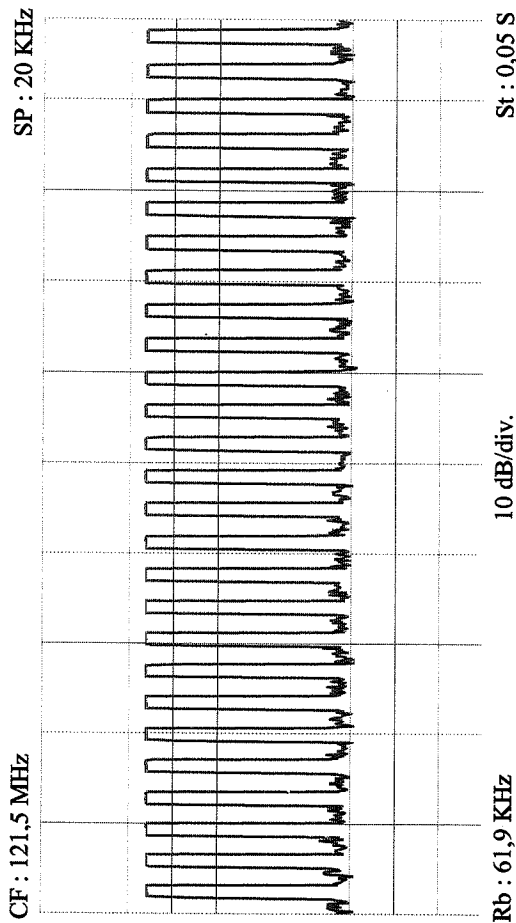
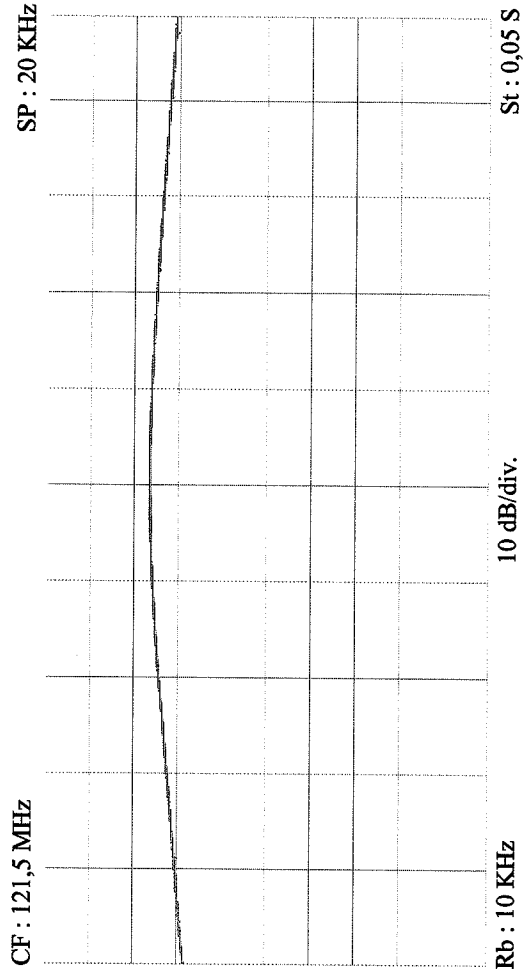
ACR Electronics, Inc
PLB 200
7
Certification nominale
406 MHz
55 °C



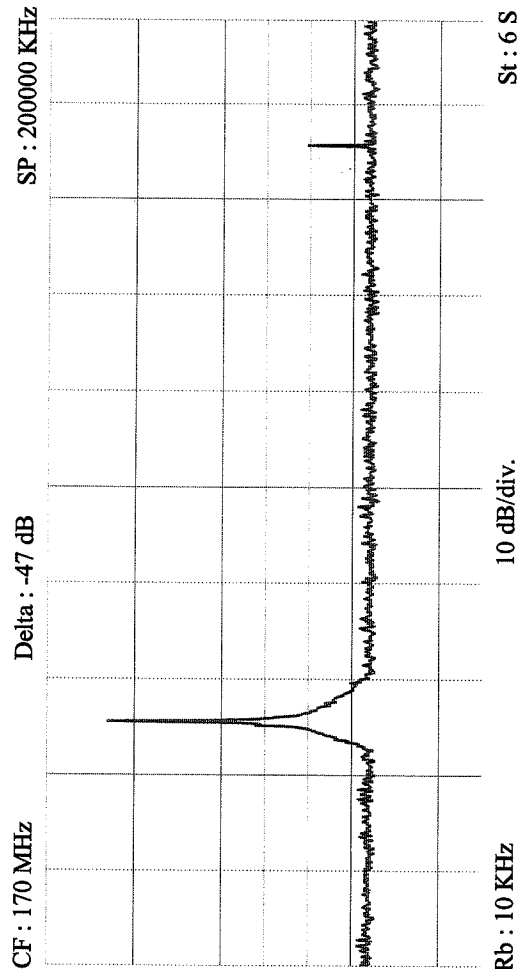
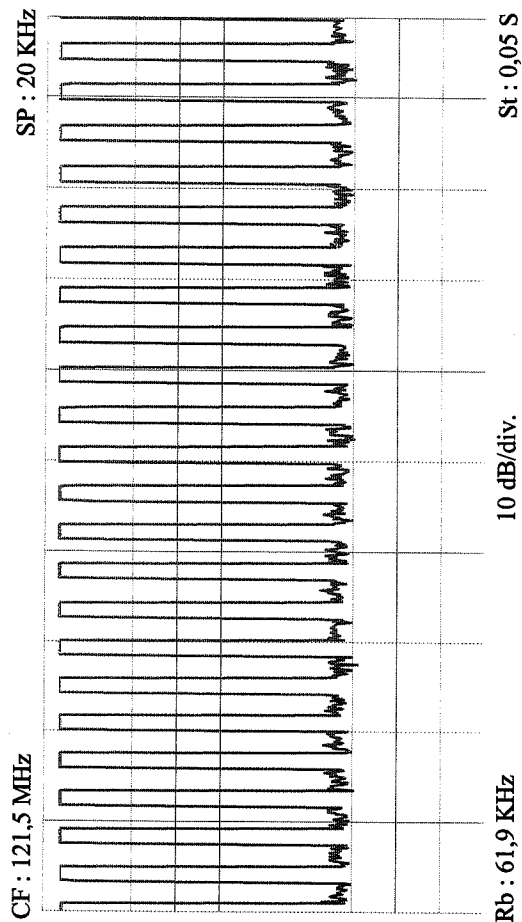
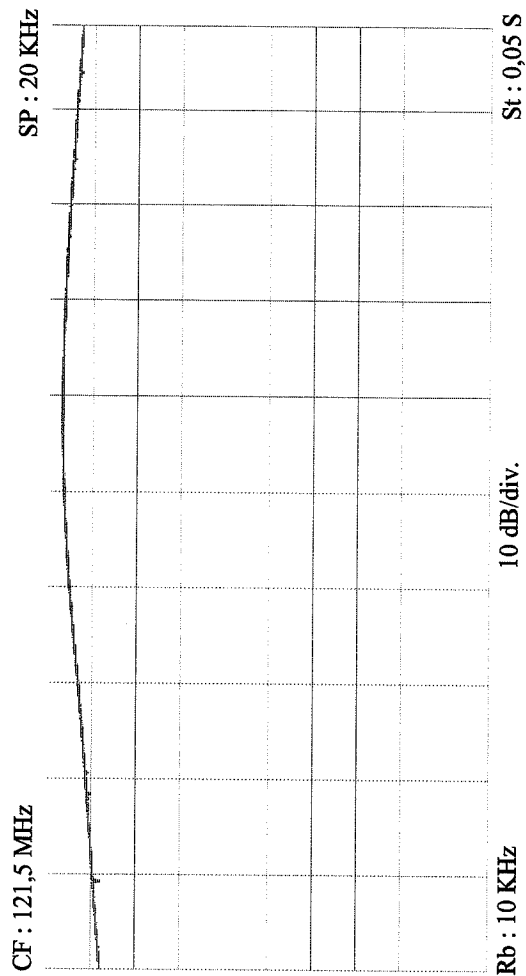
ACR Electronics, Inc
PLB 200
7
Certification nominale
121,5 MHz
-20 °C



ACR Electronics, Inc
PLB 200
7
Certification nominale
121,5 MHz
22 °C



ACR Electronics, Inc
PLB 200
7
Certification nominale
121,5 MHz
55 °C



CHAPTER 8

COSPAS-SARSAT TYPE APPROVAL TESTS REPORT (Ref : E5503-ACR)