



Electronics for Harsh Environments

FEDERAL COMMUNICATION COMMISSION
445 12TH STREET, SW
WASHINGTON, DC 20554
USA

Blagnac, on December 12th, 2005

V/Réf. :
N/Réf : 05B68744
P.J. :

ELTA Grantee Code: LYJ

SIÈGE SOCIAL :

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B.P. 48

31702 BLAGNAC Cedex

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SUBJECT : Spectrum analysis for our ELT models ADT 406 S (Request for Equipment notification)

Dear Sir,

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www.elta.fr

Our new Emergency Locator Transmitter (ELT) model ADT 406 S is the Survival model of our ADT406 family.

Please find here under the spectrum analysis corresponding to the §87.139 emissions limitations.

Our ELT meets the requirement even if these requirements are not applicable to this type of distress transmitter.

C. CRESP
Product Support Manager

CEIS TM, ENERSYS, CITA
et ELFES ELECTRONIQUES
sont des marques
de ELTA S.A.

S.A. au capital de 2 600 000 €

R.C.S Toulouse 92 B 1746

SIREN 388 919 177

Code A.P.E. 322 A

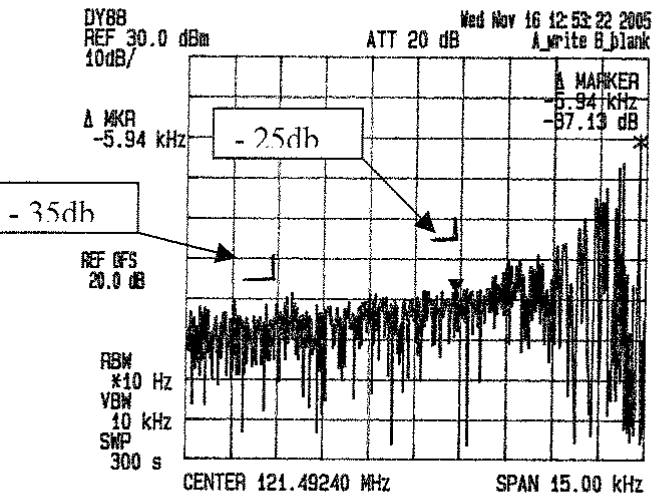
T.V.A. FR 27 388 919 177

For 121.5MHz, the spectrum show power distribution :

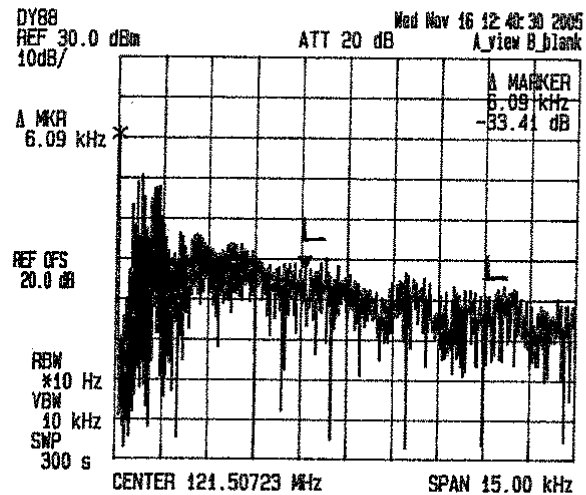
- from $F_0 + 6\text{KHz}$ (resp. $F_0 - 6\text{KHz}$) to $F_0 + 12\text{KHz}$ (resp. $F_0 - 12\text{KHz}$) : power level $< 30\text{dBc}$ at $\pm 6\text{KHz}$ offset from F_0 .
- above $F_0 + 12\text{KHz}$ (resp. under $F_0 - 12\text{KHz}$) : power level $< 35\text{dBc}$ at $\pm 12\text{KHz}$ offset from F_0 .

We consider that assigned frequency band is $121.5\text{MHz} \pm 6\text{KHz}$, so assigned frequency band is 12KHz . Please note that max power of the AM signal at 121.5MHz (when modulation is high) is 20dBm .

121,5MHz low side band



121,5MHz up side band

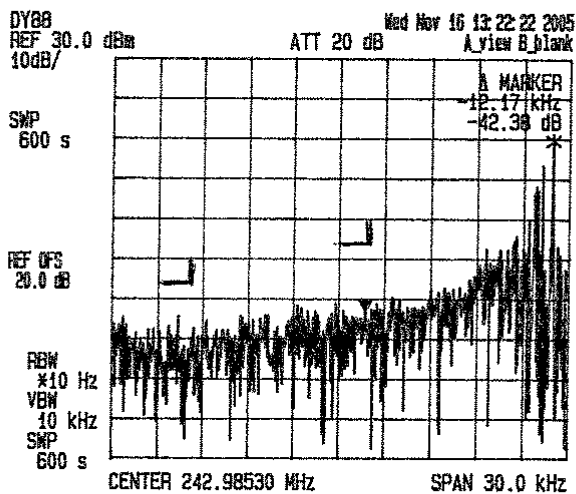


For 243MHz, the spectrum show power distribution :

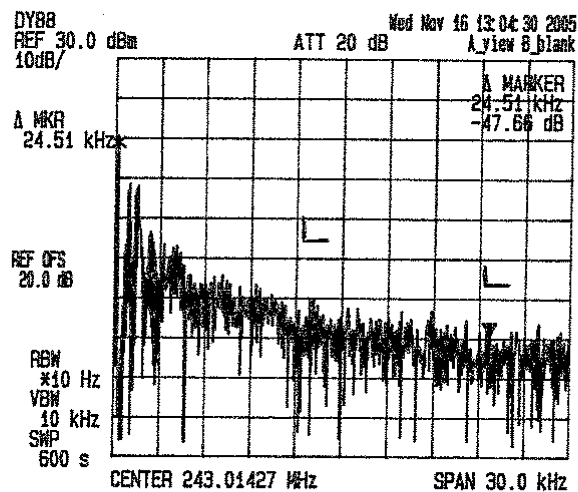
- from $F_0 + 12\text{KHz}$ (resp. $F_0 - 12\text{KHz}$) to $F_0 + 24\text{KHz}$ (resp. $F_0 - 24\text{KHz}$) : power level $< 40\text{dBc}$ at $\pm 12\text{KHz}$ offset from F_0 .
- above $F_0 + 24\text{KHz}$ (resp. under $F_0 - 24\text{KHz}$) : power level $< 45\text{dBc}$ at $\pm 24\text{KHz}$ offset from F_0 .

We consider that assigned frequency band is $243\text{MHz} \pm 12\text{KHz}$, so assigned frequency band is 24KHz . Please note that max power of the AM signal at 243MHz (when modulation is high) is 20dBm .

243MHz low side band



243MHz up side band



The ELT is in conformity with §87.139 Emissions limitations.