

Activity Title:	Feasibility study on pulsed HPA for Ka-band SAR instruments			
Contract type	TRP	Budget (′k€)	150
Company (-ies) (including country)	Selex ES (Italy) AURORASAT (E)			
Team (name of the participants in the project)	Marcello Gambarara (Selex ES), Alberto Battisti (Selex ES), Roberto Dionisio (Selex ES), Paolo Galantini (Selex ES), Rosario Martorana (Selex ES), Aurelio Borella (Selex ES), Carlos Vicente (AURORASAT), Carlos Gahete (AURORASAT)			
(*) Speaker (s)	Ü[∙æłąłÁTælq[¦æ}æ	Email	rosario	.martorana@finmeccanica.com
Short Speaker Information (experience and involvement in this project – maximum 60 words)	Rosario Martorana. In 1986 obtained the Laurea in Ingegneria Elettronica from Università degli Studi di Palermo. In 1987 joined R & D team of Finmeccanica Palermo plant (at the time Selenia) as microwave tube designer: involved in the development of a gyrotron 8 GHz 500 KW jointly with Varian Palo Alto California. Has been Microwave tube design engineer and project leader of many development from S toKu band and different types of valves for different applications (naval, airborne, missile): klystron, magnetron, helix TWT. Is currently the head of Engineering TWT team in Palermo.			
Summary of the activity (maximum 400 words and 2 pictures)	The Synthetic Aperture Radyr (SAR) are essential instruments for Each Observation. Use of Kap band SAR instruments imaging has been proven in various airborne demonstrators and instruments but, so far, it has not been utilized for SAR instrument and inferferometer. The two issue relevant to the Ka-band SAR is the availability of a vacuum tube amplifier given the high output power required. Man characteristic and design driving requirements of the HPA in subject are: 1. Garring frequency: 55.75.6112 1. Transmitted Park Power: 35.817 (41W goal) 1. Transmitted Park Power: 35.917 (41W goal) 1. Transmitted Park Power: 31.917 (41W goal) 1. Transmitted Park			

(*) The speaker needs to do the registration through this website