

I. IDENTIFICATION DATA

Thesis title:	Harmonic Transponder with RF Identification Capability
Author's name:	Aptsiauri Giorgi
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Microelectronics
Thesis reviewer:	Doc. Ing. Jaroslav Láčik, Ph.D.
Reviewer's department:	Brno University of Technology, Department of Radio Electronics

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	challenging
<i>How demanding was the assigned project?</i>	
The assignment is challenging.	

Fulfilment of assignment	fulfilled
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The thesis fulfils the assigned task and the goal was achieved.	

Methodology	outstanding
<i>Comment on the correctness of the approach and/or the solution methods.</i>	
The student used up to date methods for the solution of its master thesis.	

Technical level	A - excellent.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
The technical level of the thesis is excellent. Student's knowledge in the field of the thesis seems to be very good and he employed them correctly. Individual steps of his work are explained clearly. In my opinion, it's a pity that the student did not measure radiation patterns and other antenna parameters since the antenna is due to used passive strips slightly different than in [5].	

Formal and language level, scope of thesis	A - excellent.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The work contains a few formal flaws. Definitely, References should have been located in a separate chapter, not in Appendix. The scope of the thesis is sufficient.	

Selection of sources, citation correctness	A - excellent.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	
For the solution of the thesis, the student used relevant sources. The bibliographic citations meet the standards.	

Additional commentary and evaluation (optional)
<i>Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.</i>
None.



III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

Summarize your opinion on the thesis and explain your final grading. Pose questions that should be answered during the presentation and defense of the student's work.

I like the thesis. It is well written, and my personal feeling is that the student enjoyed it.

Question: The additional resonance in the vicinity of the second harmonic frequency was achieved using capacitive coupling mechanism by introducing a pair of passive strips gap-coupled to the antenna patch. Have you tried to create two additional resonances in the vicinity of the second harmonic frequency (the possibility in the assignment)?

The grade that I award for the thesis is **A - excellent**.

Date: **7.6.2023**

Signature: