

UNIVERSITAS INTERNASIONAL BATAM

Thesis
Electrical Engineering Study Program
Even Semester 2017/2018

OKUPANSI SPECTRUM MONITORING SYSTEM OF BAND AM, FM AND TRUNKING USING RTL SDR 2832U TUNER DONGLES DVB-T BASED ON VISUAL STUDIO

Sandi Pratama
NPM: 1421011

ABSTRACT

The Class II Batam Radio Frequency Spectrum Monitoring Center is a technical implementing unit in the field of monitoring the radio frequency spectrum under the Ministry of Communication and Information Technology of the Republic of Indonesia. class II batam radio frequency spectrum monitoring center has the task of carrying out supervision and control in the field of the use of radio frequency spectrum, one of which is monitoring the band am, fm and trunking acupuncture spectrum carried out by the author by using a measuring instrument in the form of Anritsu MS2720T Spectrum Analyzer. manually takes a long time and is less efficient. To facilitate and streamline the operation of the Spectrum Analyzer, it is necessary to program the interface with the C # programming language and an RTL-SDR 2832U Dongle signal receiving software.

C # programming language is a standard programming language specifically designed to control a device. C # programming language defines how to communicate with devices from an external computer.

Based on this, a research was conducted to create an interface program for the Spectrum Analyzer device using the C # programming language. With this program Radio Frequency controllers in monitoring the spectrum of am, fm and trunking band acupuncture.

Keywords: Anritsu MS2720T Spectrum Analyzer, C # Programming Language, AM, FM, and Trunking Band Occupancy Monitoring.