

Experience with FCC Experimental License Applications

Tony Michel – BBN
axm@bbn.com

Some useful URLs

First, get your FCC registration number (free)

<https://fjallfoss.fcc.gov/coresWeb/publicHome.do> (<- yup .do)

Then fill out the form


<https://fjallfoss.fcc.gov/oetcf/els/forms/442Entry.cfm>

User's guide from the FCC

<https://fjallfoss.fcc.gov/oetcf/els/misc/elsweb.pdf>

FCC Help

1-i



Federal Communications Commission (FCC) Experimental Licensing System (External) Users Manual

Version 3.0

FINAL

Prepared for:

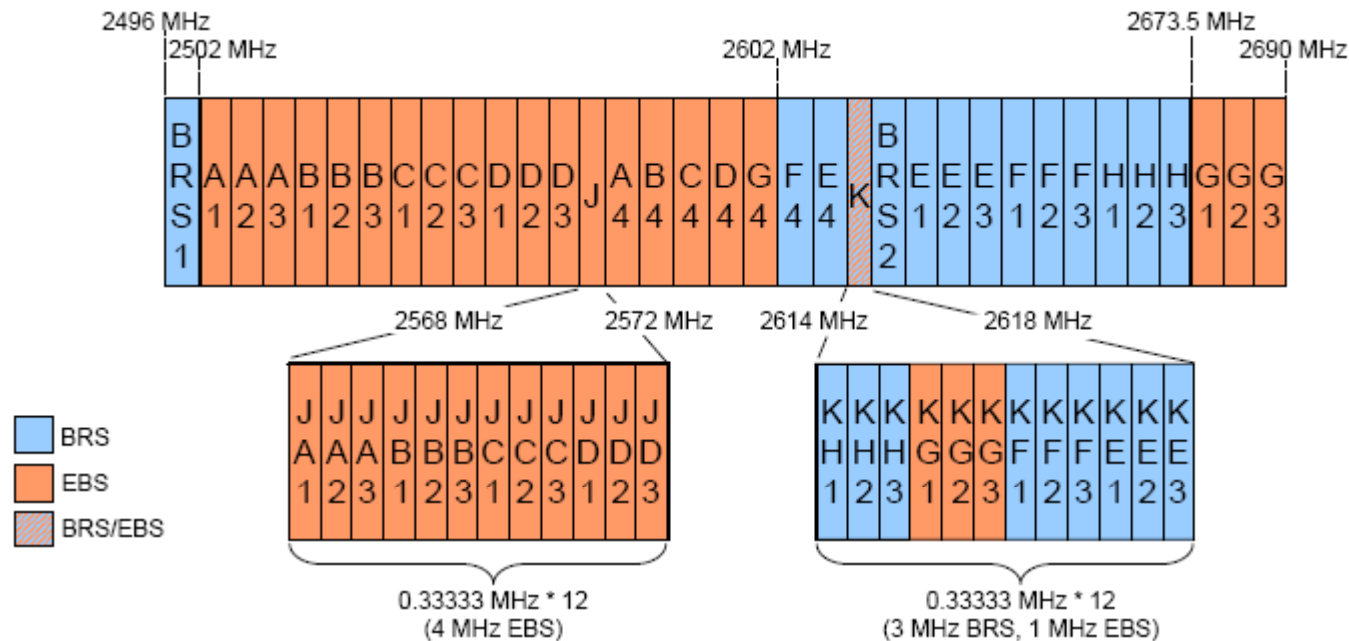
Federal Communications Commission
Office of Engineering Technology

April 11, 2008

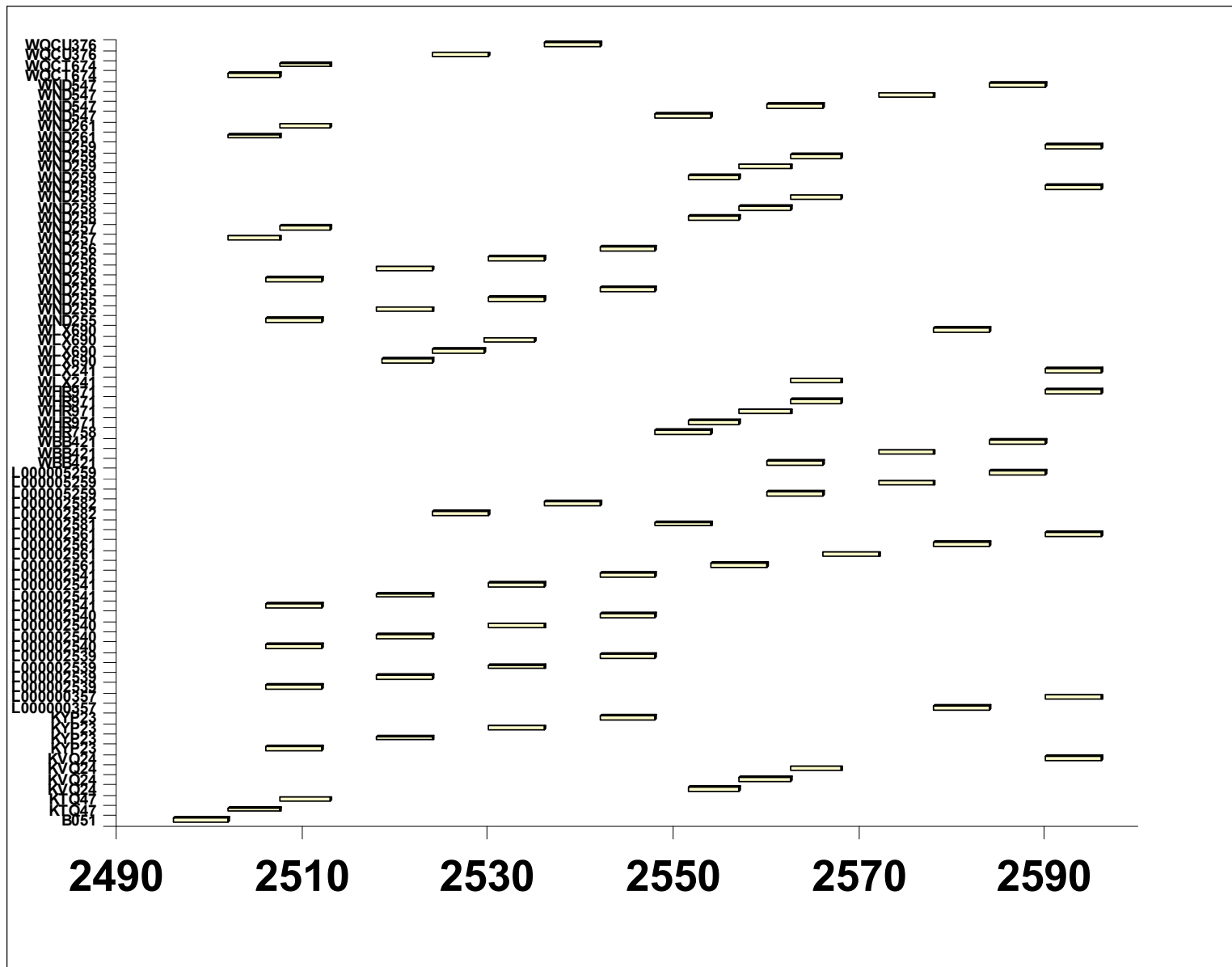
Where to look

Broadband Radio Service (BRS) and Educational Broadband Service (EBS) at 2496 – 2690

(See 47 CFR §27.5)



Boston (Middlesex County, Really)



Ivan was very helpful

Hi Tony,

We used:

Manufacturer: NEC Corporation

Model Number: WiMax Base St.

Experimental: Yes

Alternatively you can also use "NEC WiMAX PasoWings BS" (if it lets you put that many characters in the form - can't remember now) rather than the model since it is "experimental" equipment which also means that it doesn't need FCC certification number (some ambiguity helps - after all this is all about experimental equipment).

For the last part of the filing (Station Location) in addition to coordinates we used:

Frequency: 2590.00000000- MHz

Station Class : FX

Power (Peak): 3.500000 - 32.000000 W

**(32 W Peak ERP is somewhat arbitrary
since it includes directional antenna gain)**

Frequency Tolerance: 0.00002000 %

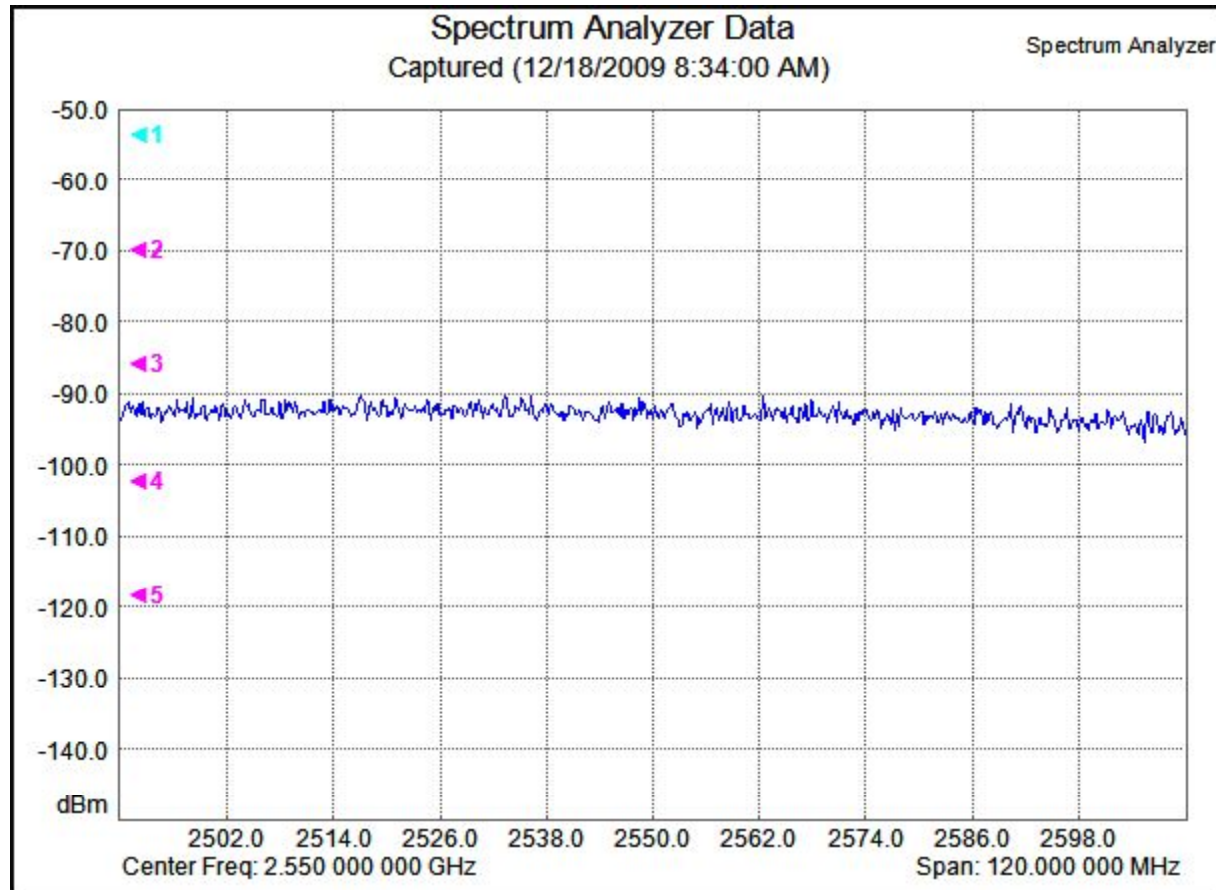
Emission Designator: 10M0W7D

Modulation Signal: OFDMA

Regards,

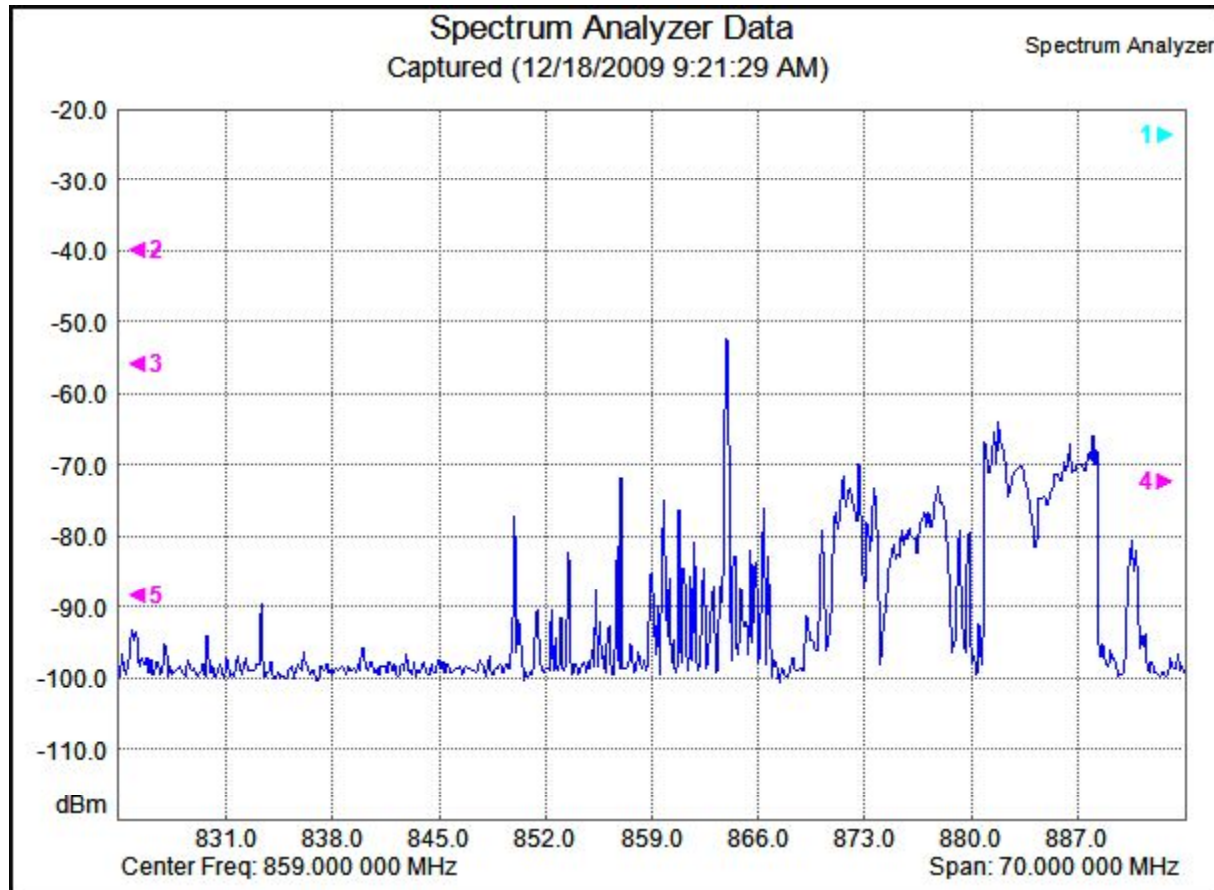
Ivan.

EBS band @ BBN



Measurement Parameters			
Trace Mode	Normal	Frequency Span	120.000 MHz
Reference Level Offset	0.0 dB	Reference Level	-50.000 dBm
Input Attenuation	0.0 dB	Scale	10.0 dBm/div
RBW	10.0 kHz	Serial Number	636182
VBW	10.0 kHz	Base Ver.	V1.78
Detection	Peak	App Ver.	V1.79
Center Frequency	2.550 GHz	Date	12/18/2009 8:34:00 AM
Start Frequency	2.490 GHz	Device Name	Sparky
Stop Frequency	2.610 GHz		

Spectrum analyzer not broken



Measurement Parameters			
Trace Mode	Normal	Frequency Span	70.000 MHz
Reference Level Offset	0.0 dB	Reference Level	-20.000 dBm
Input Attenuation	0.0 dB	Scale	10.0 dBm/div
RBW	10.0 kHz	Serial Number	636182
VBW	10.0 kHz	Base Ver.	V1.78
Detection	Peak	App Ver.	V1.79
Center Frequency	859.000 MHz	Date	12/18/2009 9:21:29 AM
Start Frequency	824.000 MHz	Device Name	Sparky
Stop Frequency	894.000 MHz		

Now, we wait

- Two license apps filed
 - One a clone of the Rutgers filing
 - One squeezed in among existing Boston licenses