

## Product Features

- High power RF amplifier
- Solid State Broadband amplifier
- High linearity and high efficiency
- 50 ohms input / output impedance
- Cover the entire UHF TV band

## Application

- DTV Repeater and Transmitter



## Electrical Specification

| Parameter                    | Specification | Remark      |
|------------------------------|---------------|-------------|
| Frequency Range              | 470MHz~860MHz |             |
| Output Power                 | 50W Avg       | 8-VSB,DVB-T |
| Gain                         | 47dB±1dB      |             |
| Gain Flatness                | ±1.5dB        | max         |
| Out of channel emission mask | 47.0          | <dBc        |
| DC IN                        | +50V          |             |
| DC Current Consumption       | 8A Typical.   | @Po=50W     |
| Input VSWR                   | 1.5:1 max     |             |
| Output Detect                | -             |             |

## Environmental Specification

| Parameter             | Specification | Remark         |
|-----------------------|---------------|----------------|
| Operating Temperature | -20°C~+60°C   |                |
| Storage Temperature   | -30°C~+80°C   |                |
| Relative Humidity     | 0%~90%        | Non-condensing |

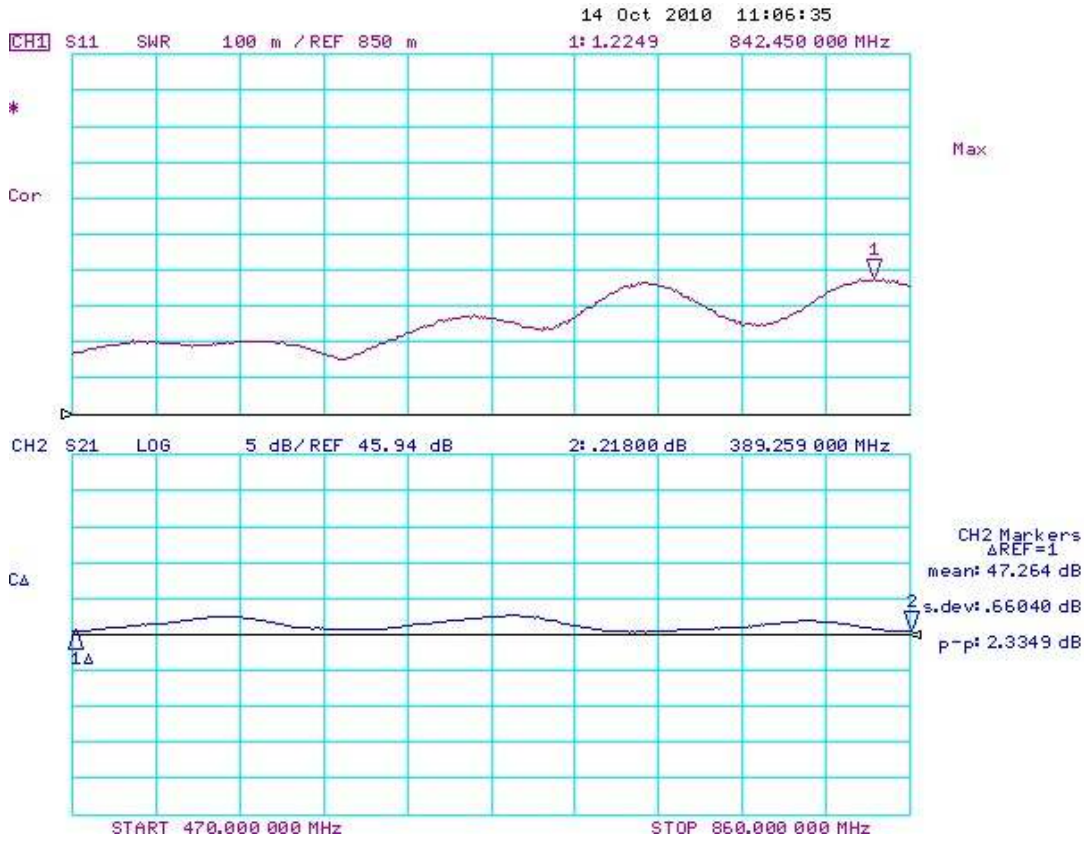
## Mechanical Specification

Physical Dimension : 220mm X 160mm X 45mm



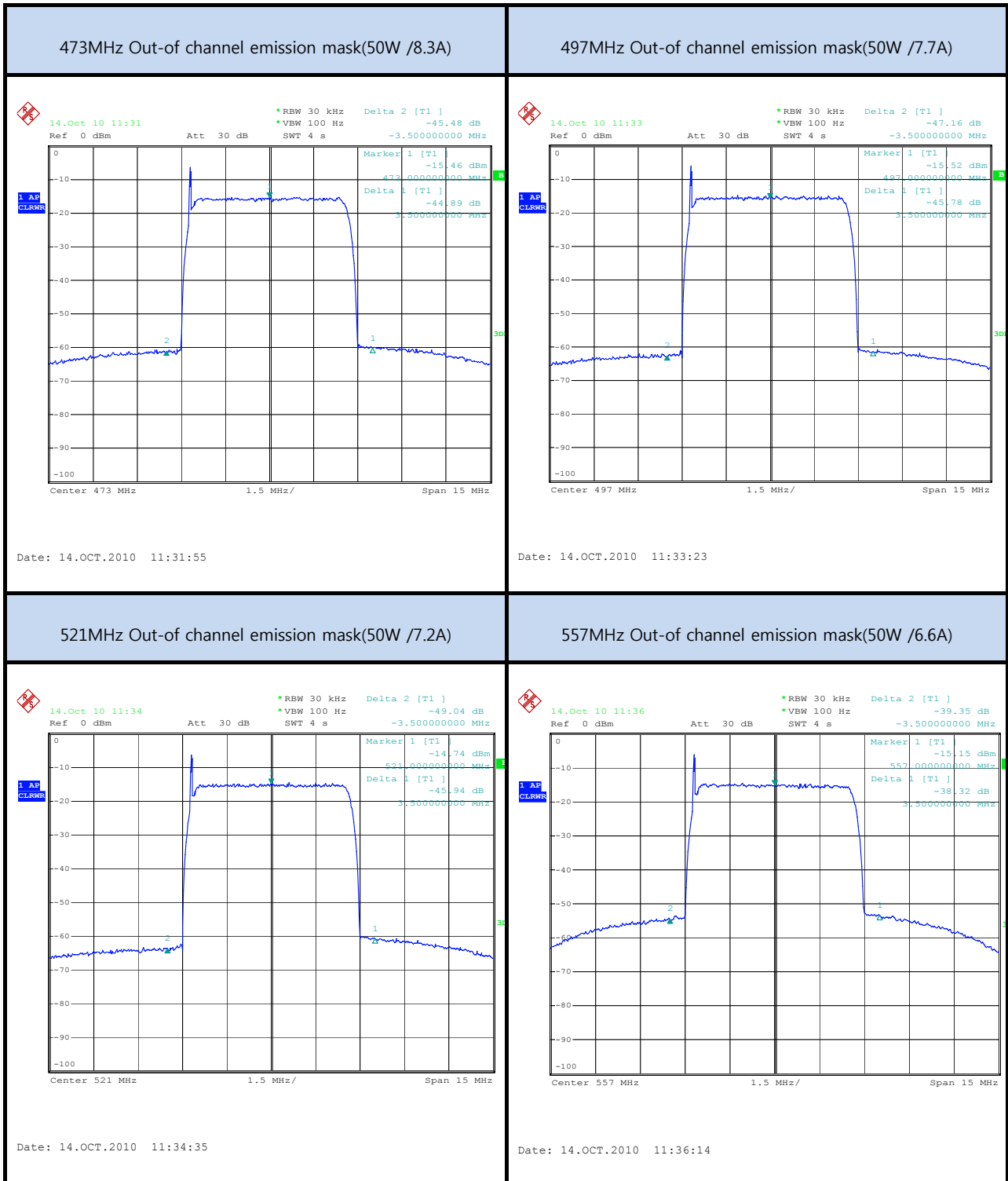
## Electrical Test Data

Gain & Flatness



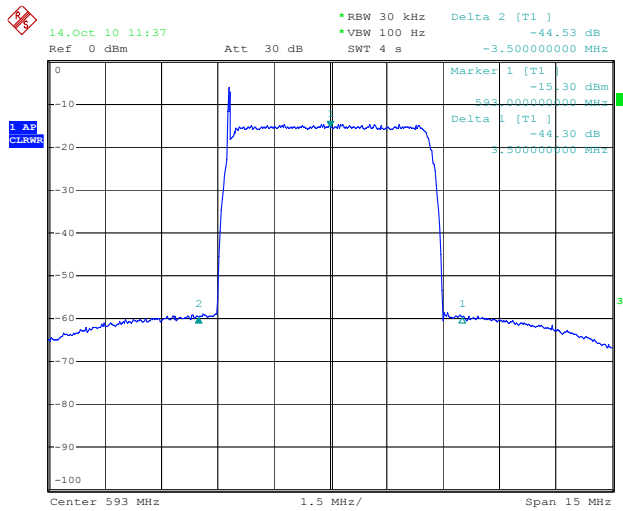


Out-of channel emission mask



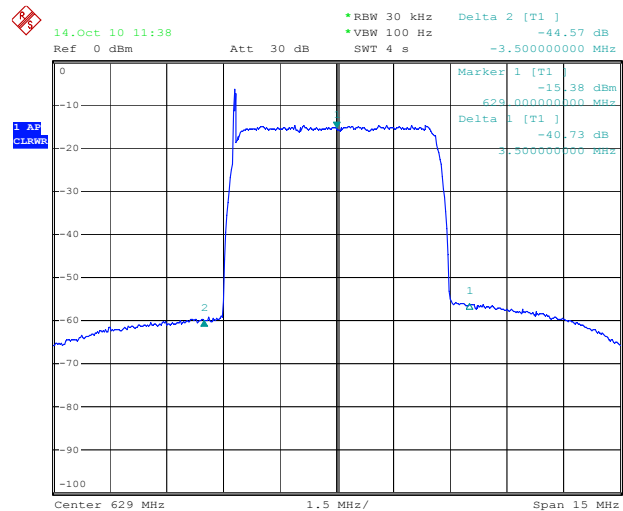


593MHz Out-of channel emission mask(50W /6.6A)



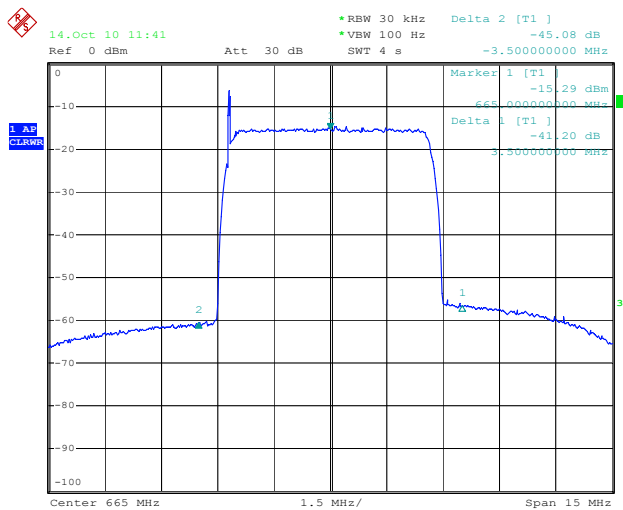
Date: 14.OCT.2010 11:37:10

629MHz Out-of channel emission mask(50W /6.5A)



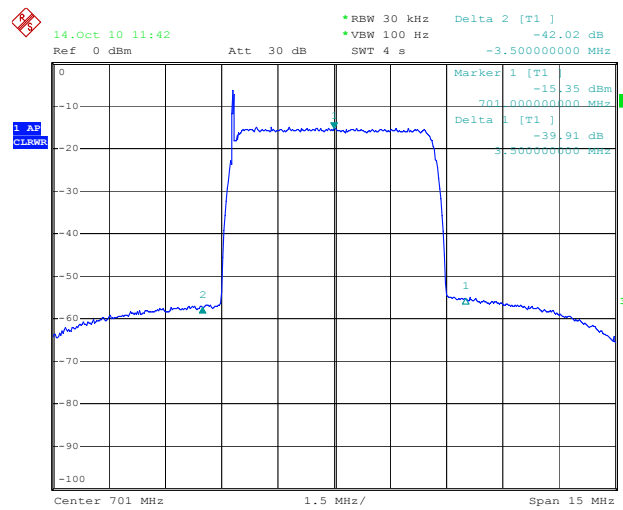
Date: 14.OCT.2010 11:38:04

665MHz Out-of channel emission mask(50W /6.9A)



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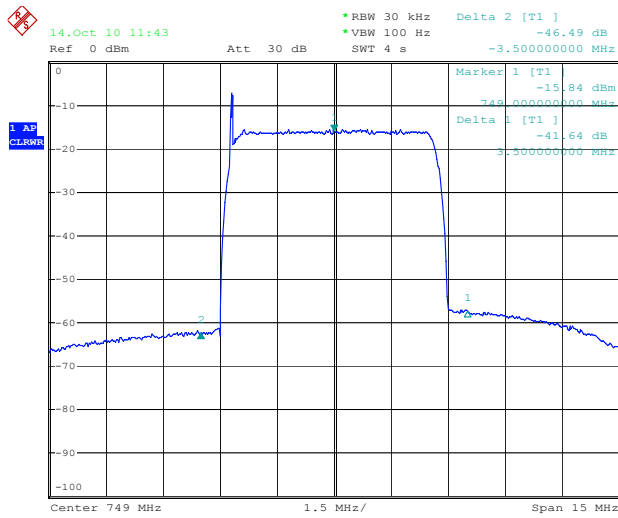
701MHz Out-of channel emission mask(50W /7.7A)



Date: 14.OCT.2010 11:42:41

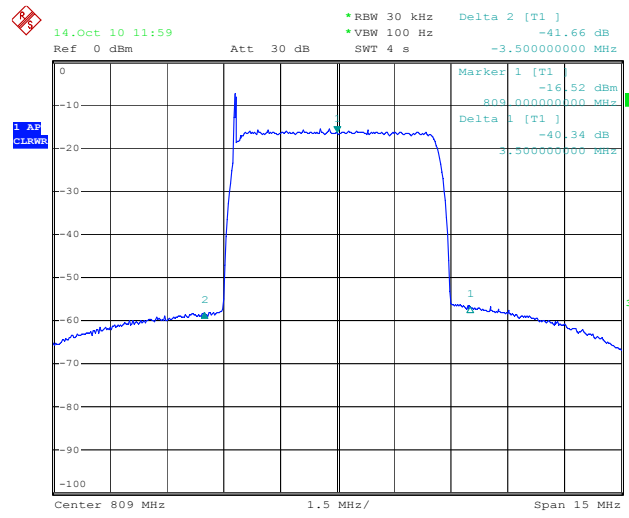


749MHz Out-of channel emission mask(50W /7.9A)



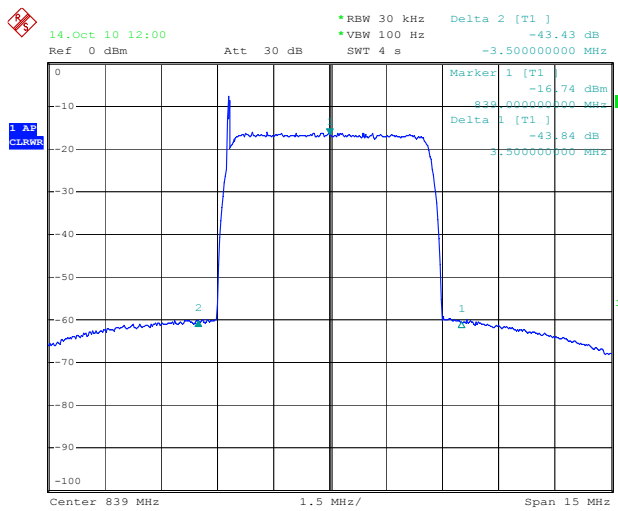
Date: 14.OCT.2010 11:43:49

809MHz Out-of channel emission mask(50W /8A)



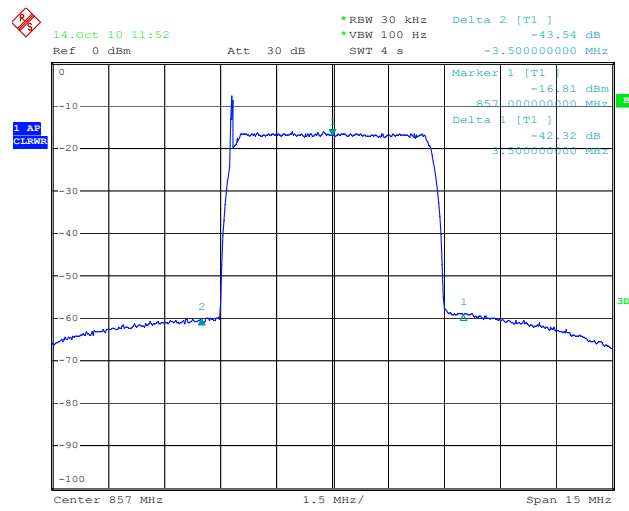
Date: 14.OCT.2010 11:59:34

839MHz Out-of channel emission mask(50W /7.3A)



Date: 14.OCT.2010 12:00:24

557MHz Out-of channel emission mask(50W /7.1A)



Date: 14.OCT.2010 11:52:37