

TPO Calculation Summary

Main Antenna Operation

Call letters: W241BK
City of License: Marietta, GA
Frequency: CH243D (96.5 MHz)
File No: BPFT-20160707AAP
Facility ID: 20726
Applicant: Prieto Broadcasting, Inc.

Operating Effective Radiated Power (ERP): 0.250 kW

Antenna Make: Scala

Antenna Model: 3x2 CL-FM

No of Elements: 2

Power Gain: 11

$\text{Log}[\text{power gain}] * 10 = \text{Antenna Gain: } 10.414 \text{ dBd}$

Calculated Antenna Input Power: 0.023 kW

System Loss Info:

<u>Description</u>	<u>Component Make/Model</u>	<u>Length</u>	<u>Loss</u>
Main Feedline	Andrew LCF78-50JA	(0.349 dB/100 ft) 315 ft	-1.099 dBd dBd dBd dBd

TOTAL SYSTEM GAIN/LOSS: 9.31 dBd

$1 / [10^{(9.31/10)}] = \text{CALCULATED TRANSMITTER POWER OUTPUT: } 0.029 \text{ kW}$

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