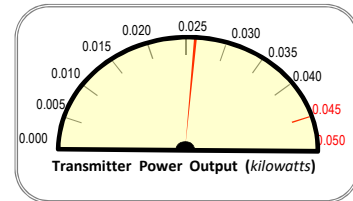


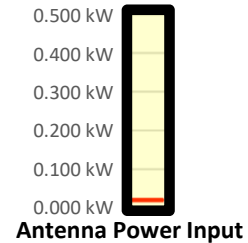
Transmitter Power Output Worksheet

Call letters: W275CP.C
City of License: Canton, NC
Channel: CH275D (102.9 MHz)
File No: BNPFT-20171201ADW
Facility ID: 200008
Applicant: Saga Communications of North Carolina, LLC



Effective Radiated Power (ERP): 0.099 kW

Antenna Make: Kathrein, Inc. Scala Division (SCA)
Antenna Model: CL-FM (Vertical Only)
No of Elements: One (1)
Antenna COR AGL: 18 meters AGL
Antenna COR AMSL: 1023 meters AMSL
Max Input Power: 0.50 kW



Power Gain: 5.012

Antenna Gain: 7.000 dBd

Calculated Antenna Input Power: 0.020 kW

Transmitter Rated Power: 0.050 kW

Transmitter Make/Model: Gates Air FAX 50

Power Gain to Antenna gain (dBd) Conversion:
 $= \text{Log}[\text{power gain}] * 10$

Inventory of System / Insertion Losses

| Explanation | Component Make/Model | | Length | Loss |
|----------------------------|--------------------------|-------------------|--------|------------|
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.010 dBd |
| 7/8" Foam Feedline (Tower) | Helix AVA5-50FX | (0.359 dB/100 ft) | 126 ft | -0.452 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Jumper to Combiner | Helix FSJ4-50B Sureflex | (1.054 dB/100 ft) | 3 ft | -0.032 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Combiner | Kintronics FMC2X3002C | | n/a | -0.670 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |
| Jumper to Transmitter | Helix FSJ4-50B Sureflex | (1.054 dB/100 ft) | 3 ft | -0.032 dBd |
| Typical End Connector | Generic (1@0.02 dB each) | | n/a | -0.020 dBd |

TOTAL SYSTEM GAIN/LOSS: 5.72 dBd

CALCULATED TRANSMITTER POWER OUTPUT: 0.026 kW

(1 / [[10⁴ dB/10]/ERP])