

## OPERATIONAL DESCRIPTION

### DESCRIPTION OF EQUIPMENT

FCC Section 2.1033

- |                                        |                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1) Type of Emission: (c)(4)            | 64/256 QAM; 6M00D7W                                                                                         |
| 2) Frequency Range: (c)(5)             | 2000-2700 MHz in select bands                                                                               |
| 3) Operating Range: (c)(6)             | 1 – 12.5 watts; 1 - 10 watts                                                                                |
| 4) Power Rating: (c)(7)                | 12.5 watts average QAM modulation; 10 watts average QAM modulation with three equally spaced 2 MHz carriers |
| 5) Variation of output power (c)(6)    | See calibration section, document #<br>DOC16-0057 of technical manual                                       |
| 6) E & I on Final: (c)(8)              |                                                                                                             |
| Drain voltage                          | 10V                                                                                                         |
| Drain current                          | 7A each                                                                                                     |
| 7) Tune-up Procedures: (c)(9)          | See calibration section, document #<br>DOC16-0057 of technical manual                                       |
| 8) Function of Active Devices: (c)(10) |                                                                                                             |

A list of active devices in the RF chains of the SDA2500C transmitter can be found in the tune-up section. The relative position of each device may be found by referring to the block diagrams and schematics found in the technical manual.

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|--------------------------------------|-------------------------------------------------------------------------|
| ❖ Frequency Stability Devices:       | See Agile Synthesizer Drawer technical manual, document #<br>DOC13-0020 |
| ❖ Spurious Suppression Circuits[k5]: | Not applicable                                                          |
| ❖ Describe Limiters:                 |                                                                         |
| Modulation:                          | Not applicable                                                          |
| Power:                               | See technical manual, document # DOC13-0177                             |