



Model#: EMLT-1550-HP-23

Description: 23 dBm Externally
Modulated Transmitter,
High Power

Date: 12/19/07

Transmitter S/N: 8090002

Test by: Ken Corelli

EDFA S/N: NA

1. Output Power Measurement			
Tx Only Output Power (dBm):	23.1	Stability (+/-dB):	0.05
With EDFA Output Power (dBm):	N/A	Stability (+/-dB):	N/A

Frequency Channels 130 total, 70 Analog + 60 Digital NTSC

Receiver input level: 0 dBm Frequency Tested: 325.25MHz (#48) OMI Value: 2.0%

2. RF Input Power vs. CTB Measurement				
Matrix Gen. Attenuation (dB)	RF Input Level (dBmV)	CW Carrier Level (dBmV)	Distortion Level (dBmV)	Calculated CTB
26.0	13.4	28.6	-32.30	60.90

3. RF Input Power vs. CSO Measurement					
Matrix Gen. Attenuation (dB)	RF Input Level (dBmV)	CW Carrier Level (dBmV)	Distortion Level (dBmV)		Calculated CSO
26.0	13.4	28.6	-42.00	-42.90	70.60 71.50

4. CNR Measurement @ Ch#48, OMI @ 2.0%					
CNR Measured with 100KHz RBW (dB)	Noise Floor Difference (dB)	C. F. For Noise Floor (dB)	Test System C.F. (dB)	Conversion from 100KHz to 4MHz (dB)	Finalized CNR
66.50	16.8	0.0	0.50	16.0	50.98

12dBm Output Level, Set at HA9-9.28dB, EDFA Power Level: +23.5dB

5. SBS Measurement		18.5dBm
Output Power from EDFA (dBm)	Received Power afeter 48km (dBm)	Total Loss (dB)
11.00	0.89	10.11
12.00	1.90	10.10
13.00	2.89	10.11
14.00	3.90	10.10
15.00	4.90	10.10
16.00	5.91	10.09
17.00	6.89	10.11
17.50	7.36	10.14
18.00	7.83	10.17
18.50	8.29	10.21
19.00	8.73	10.27
19.50	9.17	10.33

Maximum SBS Suppression Level

6. Wavelength Measurement	
Laser Wavelength (nm):	1556.371