QAMnet

Model#: DMLT-1310-13-a **Description:** 13 dBm Directly Modulated 1310 Transmitter, Standard Range

Date: 12/5/07 **Transmitter S/N:** 8040002

Test by: Ken Corelli **EDFA S/N:** NA

1. Output Power Measurement			
Tx Only Output Power (dBm):	13.71	**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: 3.00%

2. RF Input Power vs. CTB Measurement				
Matrix Gen. Attenuation (dB)	**RF Input Level (dBmV)**	**CW Carrier Level (dBmV)**	**Distortion Level (dBmV)**	**Calculated CTB**
14.00	25.4	26.7	-38.50	65.20

3. RF Input Power vs. CSO Measurement						
Matrix Gen. Attenuation (dB)	**RF Input Level (dBmV)**	**CW Carrier Level (dBm)**	**Distortion Level (dBm)**		**Calculated CSO**	
14.00	25.4	26.7	-32.30	-35.70	59.00	62.4

4. CNR Measurement @ Ch#48, OMI @ 3.0%					
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**
68.50	12.6	0.3	0.50	16.0	53.28

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)**
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0
		0

Maximum SBS Suppression Level

6. Wavelength Measurement	
Laser Wavelength (nm):	1310.275