QAMnet

Model#: DMLT-1550-SR-10 **Description:** Directly Modulated Laser Transmitter, Standard Ranch, 10dBm Output

Date: 1/5/09 **Transmitter S/N:** 8010001

Test by: Brandon To **EDFA S/N:** NA

1. Output Power Measurement			
Tx Only Output Power (dBm):	10.45	**Stability (+/-dB):**	0.05
With EDFA Output Power (dBm):	N/A	**Stability (+/-dB):**	N/A

Frequency Channels 77 Analog **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	30km Fiber and EDFA
20.0	23.10	27.27	-36.01	63.28	No
				0.00	Yes

3. RF Input Power vs. CSO Measurement

Matrix Gen. Attenuation (dB)	RF Input Level (dBmV)	CW Carrier Level (dBmV)	Distortion Level (dBmV)		Calculated CSO	30km Fiber and EDFA
20.0	23.10	27.27	-29.60	-31.10	57.62	No
					0.00	Yes

4. CNR Measurement @ Ch#48, OMI @

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	30km Fiber and EDFA
66.4	14.0	0.2	0.5	16.0	51.05	No
						Yes

5. Wavelength Measurement

Laser Wavelength (nm):	1535.548

Transmitter Setting:

SBS Setting	13.5 dBm
RF Modulation Mode	AGC, -1.5dB OMI

Test Instruments Used:

Frequency Generator	Matrix ASX-16C
Spectrum Analyzer	HP 8595E
Optical Attenuator	JDSU HA9
Optical Power Meter	Newport 2832-C
Detector Type	818-IS
Receiver	RF Optics FOS 860A
Wavelength Meter	HP 86120B

Notes:

Testing Condition with 30km Fiber and EDFA