

Test report TWTA / SSPA

Frequency (GHz)	Input Power Pin (max.out)	Input Power Pin (limit)	Att Setting dB	Max.Input Pwr at att 0 dB	Output Pwr Pout (dBm)	Output Pwr Pout (Watt)	Output Pwr Front Panel	Output Pwr Limit	Output Pwr Limit	Gain dB (SSG)	Input dB (SSG)	Gain dB(LSG)	Sample Port
17.30	-13,1	-18,3	0	-18,3	56,43	440,00	511	420	500		-35		
17.70	-13,43	-18,3	0	-18,3	56,43	465,00	511	420	500		-35		
18.00	-14,06	-18,3	0	-18,3	56,57	454,00	511	420	500		-35		
18.40	-14	-18,3	0	-18,3	56,43	440,00	475	420	500		-35		
Units:	dBm	dBm	dB	dBm	dBm	Watt	Watt	Watt	Watt	dB (SSG)	dBm	dB(LSG)	dBm
Note 1:					max	max		limit	limit	SSG = Small Signal Gain			
Note 2:	att.max 25 dB		if applicable	if applicable	Flange	Flange	if applicable	Flange	TWT	LSG = Large Signal Gain			
<b>Customer:</b>	<b>Newera Systems Inc.</b>			<b>Electrical Safety Test PAT/NEN 3140: PASS</b>				<b>Test equipment used:</b>					
Date:	08-28-2019			Power cord:	Y			Spectrum Analyzer: Agilent E4407B 9 KHz-26.5 GHz Power meter 1: HP / Agilent EPM-441A Power head 1: Agilent E4412A 10 MHz-18 GHz Power meter 2: Agilent E4418B Power head 2: Agilent E4413A 10 MHz-26.5 GHz Power Meter 3: HP 437B Power Head 3: HP 8481A 10 MHz-18 GHz Sweeper / Signal generator: HP / Agilent: 83711A 1-20 GHz Power divider input: Agilent 11667B DC-26.5 GHz / Narda 3326-2 6-18 GHz Directional coupler: Apollo Microwave 10706-9-20 (50 dB) Dummy load: Apollo Microwave 10608-S 400 / 750 Watt PAT / NEN3140 Tester: Nieaf Smitt EazyPat 3140 / Fluke 6500 Test cables: Huber+Suhner Sucotest 18					
Tested by:	KvA			User Manual:	Y								
Unit Brand:	MCL			Interlock connector pres.:	Y								
Unit Model No.:	MT4000	TWTA / SSPA:	TWTA	Interlock:	J6:1-9, 2-10,	5-12, J7:1-14							
Unit Part No.:		Tube Brand	Thales	Optical condition (1-10):	9								
Unit Serial No.:	1252794	Tube Type	TH3877D										
Unit Date:		Tube Serial											
Output Pwr max:	500	Watt (TWT)	420	Watt (Flange)									
Freq.range:	17.3-18.4	GHz											
<b>Options:</b>													
Upconverter:	N	LO freq.:	N.A.	10 MHz needed:	N.A.								
Linearizer:	N	Build in var. attenuator:	Y										
<b>Operating hours:</b>													
Beam	4.555	hrs											
Heater	4.597	hrs											
<b>Helix current:</b>		<b>Helix voltage:</b>	11,3	kV									
Idle (no input)	1,3	mA	IhxDC										
Saturated	3,6	mA	IhxPsat										
<b>Remarks:</b>	<b>DBS Band 500 Watt Indoor unit, Works fine, in rack with redundancy swith</b>						<b>Final test result:</b> <span style="background-color: #90EE90; padding: 2px 10px;">OK</span> See remarks						