

# T106 Bistatic Experiment on DOY 296-297

Bistatic Calibration for 34-m

DSS-34

Operator Danny

		Time	KLCP WVSR2B	KRCP WVSR2A	XRCP WVSR1A
1	<b>Switch 43 has to be in B position</b>				
	X- and Ka-band Out the horn (cold sky), diode OFF	230300	-6.14	-10.37	-12.18
	Begin X and Ka-band 1 & 16 KHz recording  Att Auto all  No Att Auto during post-cal  Att Setting	071800	-17.25	-10.06	-20.14
		230430	-10.45	-9.86	-10.11
			23.00	31.00	17.00
			30.00	31.00	27.00
2	Switch 21 in the B Position (Extend aperture load)	231015	-3.51	-7.53	-1.30
	Att auto (Final for ALL)  No Att Auto during post-cal  * WVSR1B has same. At max. No leeway to reset atten.  Att Setting  Monitor Att Setting from here on. It should not change	072320	-10.20	-7.36	-10.14
		231100	-10.16	-7.50 *	-10.26
			30.00	31.00	27.00
			30.00	31.00	27.00
3	Ambient Load Temp	Time: 231620	X1: 20.88	K1: 19.325	
		Time: 072610	X1: 20.81	K1: 19.75	
4	Weather	Time: 223835 (DSS-43)	T 19.78 degC, H 57.42, P 944.46, W 3.71 kph, Clear some light clouds		
		Time: 072630	T 25.3, H 50.0, P 938.5, W 2.5 kph, Sky overcast Temp, Humidity, Pressure, Wind Speed, Sky condition		
5	X-Band 12.5K diode ON	231755	-10.20	-7.49	-9.98
	Wait 1-2 minutes for next step	072930	-10.11	-7.38	-9.92
6	Ka-Band 12.5K diode ON	232250	-9.92	-7.28	-9.96
		073400	-10.01	-7.34	-9.93
7	Switch 21 in the A position (retract aperture load)	233045	-16.52	-10.06	-18.48
		073825	-15.78	-9.53	-18.29
8	X-Band diode OFF	233630	-16.45	-9.90	-20.14
	Wait 1-2 minutes for next step	074310	-15.53	-9.88	-19.91
9	Ka-band diode OFF	234200	-17.46	-9.95	-20.12
		074715	-16.90	-10.00	-20.05

End X-band and Ka-band Calibrations

Pre-cal 234800

Post-cal 075200

DSS-34

Operator Danny

**Minical #1**

	Time	KLCP	KRCP	XRCP
		WVSR2B	WVSR2A	WVSR1A
Start 1 & 16 KHz Recordings (if not already recording)	030830	-20.98	-10.07	-20.08
Enable X- and Ka-band Diodes                      ADC Amplitude	031030	-16.30	-9.57	-18.38
Disable Diodes.	031230	-17.26	-10.06	-20.05

**Minical #2**

	Time	KLCP	KRCP	XRCP
		WVSR2B	WVSR2A	WVSR1A
Start 1 & 16 KHz Recordings (if not already recording)	065700	-16.17	-9.70	-19.65
Enable X- and Ka-band Diodes                      ADC Amplitude	065900	-15.63	-9.54	-18.28
Disable Diodes.	070100	-16.63	-9.79	-19.76

**Minical #3**

	Time	KLCP	KRCP	XRCP
Start 1 & 16 KHz Recordings (if not already recording)				
Enable X- and Ka-band Diodes                      ADC Amplitude				
Disable Diodes.				

**SNT Measurement #1**

X-band Value      22.861  
 Ka-band Value     41.750

Time 011300

eDMD  
 23.480  
 41.649

**SNT Measurement #2**

X-band Value      23.640  
 Ka-band Value     43.930

Time 060625

eDMD  
 24.293  
 46.381

**SNT Measurement #3**

X-band Value  
 Ka-band Value

Time

Weather Update      Time  
 021700  
 034400 (DSS-43)  
 050600 (DSS-43)

T 23.6 degC, H 52.0, P 941.2, W 6.2 kph, Sky high level clouds  
 T 26.3 degC, H 46.9, P 939.6, W 13.0 kph, Sky high thin clouds  
 T 28.28, H 35.25, P 938.26, W 13.59 kph, Sky cloud storm forming up

Ambient Load Temperature Update      Time
