

# LNBF Testing Results - 103w

Location: Sacramento, CA  
Dish: GEOSATpro 90cm  
Satellite: 103w KU

Date: 08/2/2012  
Time: 18:00 UTC  
Conditions: Clear / 92F

Chaparral	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-103	11813.9	V	2170	69.2					Unlock		13.4	120
		11953.492	H	2170	70.4					Unlock		18.4	120
		11942.06	V	20000	77.4	72	8.8	8.9	10.1	LOCK	-1.509	13.4	120
		12144.5	V	20000	79.1	82	10.5	10.6	11.8	LOCK	-1.463	13.4	120
		12180.048	V	24999	78.6	76	9.6	9.7	10.9	LOCK	-1.519	13.4	120
Average					74.94	76.67	9.63	9.73	10.93		-1.50		
ESX521	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-103	11813.9	V	2170	75.6					Unlock		13.4	85
		11953.492	H	2170	73.1					Unlock		18.4	85
		11942.06	V	20000	80.6	62	7.7	7.8	9	LOCK	-1.187	13.4	85
		12144.5	V	20000	84.9	82	10.6	10.7	11.9	LOCK	-1.151	13.4	85
		12180.048	V	24999	84.8	77	9.7	9.8	11	LOCK	-1.208	13.4	85
Average					79.80	73.67	9.33	9.43	10.63		-1.18		
ESX522	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-103	11813.9	V	2170	69.9					Unlock		13.4	145
		11953.492	H	2170	69.5					Unlock		18.4	150
		11942.06	V	20000	74	69	8.5	8.6	9.8	LOCK	-0.8	13.4	145
		12144.5	V	20000	81.1	77	9.7	9.8	11	LOCK	-0.755	13.4	145
		12180.048	V	24999	80	73	8.9	9	10.2	LOCK	-0.81	13.4	145
Average					74.90	73.00	9.03	9.13	10.33		-0.79		
PLL321s	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 1 TP averages on common TPs	-103	11813.9	V	2170	69.7	65	8	8.1	9.3	LOCK	-0.139	13.4	160
		11953.492	H	2170	70.3					Unlock		18.4	160
		11942.06	V	20000	77.6	74	9.3	9.4	10.6	LOCK	-0.11	13.4	160
		12144.5	V	20000	79.2	86	11.3	11.4	12.6	LOCK	-0.064	13.4	160
		12180.048	V	24999	79.6	78	9.9	10	11.2	LOCK	-0.121	13.4	160
Average					76.68	79.33	10.17	10.27	11.47		-0.10		
SL1PLL	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Found All TPs averages on common TPs	-103	11813.9	V	2170	69.9	63	7.8	7.9	9.1	LOCK	-0.132	13.3	155
		11953.492	H	2170	69.4	56	8	8.1	8.3	LOCK	-0.039	18.4	155
		11942.06	V	20000	74.6	73	9.2	9.4	10.6	LOCK	-0.104	13.4	155
		12144.5	V	20000	78	85	11.2	11.3	12.4	LOCK	-0.061	13.4	155
		12180.048	V	24999	77.9	77	9.8	10	11	LOCK	-0.118	13.4	155
Average					76.83	78.33	10.07	10.23	11.33		-0.09		
SL2 Bullet	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-103	11813.9	V	2170	66.9					Unlock		13.4	115
		11953.492	H	2170	65.7					Unlock		18.4	115
		11942.06	V	20000	69.6	73	9	9.1	10.3	LOCK	-0.553	13.4	115
		12144.5	V	20000	74.2	80	10.3	10.4	11.6	LOCK	-0.501	13.4	115
		12180.048	V	24999	73.9	73	9.1	9.2	10.4	LOCK	-0.556	13.4	115
Average					70.06	75.33	9.47	9.57	10.77		-0.54		
Invacom SNH031	Orbit	Transponder Frequency	Polarity	Symbol Rate	Signal Level	Signal Quality	Carrier to Noise Ratio	Eb/No	Es/No	Lock	Freq Error	LNB vdc	LNB Current
* Missing 2 TPs	-103	11813.9	V	2170	59.4					Unlock		13.4	100
		11953.492	H	2170	60.6					Unlock		18.4	100
		11942.06	V	20000	68.9	68	8.4	8.5	9.7	LOCK	2.847	13.4	100
		12144.5	V	20000	71.2	79	10.1	10.2	11.4	LOCK	2.899	13.4	100
		12180.048	V	24999	71.1	69	8.5	8.6	9.8	LOCK	2.842	13.4	100
Average					66.24	72.00	9.00	9.10	10.30		2.86		

Model	Level	Quality	CNR	Eb/No	Es/No	LO Center	TP Locked
Chaparral	74.94	76.67	9.63	9.73	10.93	-1.50	3
ESX521	79.80	73.67	9.33	9.43	10.63	-1.18	3
ESX522	74.90	73.00	9.03	9.13	10.33	-0.79	3
PLL321s	76.68	79.33	10.17	10.27	11.47	-0.10	4
SL1PLL	76.83	78.33	10.07	10.23	11.33	-0.09	5
SL2 Bullet	70.06	75.33	9.47	9.57	10.77	-0.54	3
Invacom SNH031	66.24	72.00	9.00	9.10	10.30	2.86	3