

LNBF Testing Results - 97w

Location: Sacramento, CA
Dish: GEOSATpro 90cm
Satellite: 97w KU

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

Chaparral - Universal	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
	-97	11706.4	V	7161	73.6	49	6.3	8.1	7.6	LOCK	-1.444	13.4	120
		11910.928	H	10525	81.5	76	9.5	11.3	10.8	LOCK	-1.477	18.4	125
		11789.072	V	28125	81	83	10.8	11.4	12.1	LOCK	-1.5	13.4	120
		11836.072	V	20765	81.9	84	10.9	11	12.2	LOCK	-1.5	13.4	120
		11842.5	H	22000	83.6	69	8.5	8.6	9.8	LOCK	-1.438	18.4	120
		11867.068	V	22000	82	77	9.7	9.8	11	LOCK	-1.499	13.4	120
		11873.5	H	22000	81.9	73	9.1	9.7	10.4	LOCK	-1.44	18.4	125
		11898.072	V	22000	82.5	95	12.8	12.9	14.1	LOCK	-1.501	13.4	120
		11929.064	V	22000	83	78	9.9	10	11.2	LOCK	-1.499	13.4	120
		11935.5	H	20000	83.4	76	9.5	9.6	10.8	LOCK	-1.448	18.4	120
		11966.5	H	22000	82.1	95	13	13.1	14.3	LOCK	-1.446	18.4	120
		11991.064	V	22000	83.3	88	11.6	11.7	12.9	LOCK	-1.504	13.4	120
		12022.064	V	22000	81.7	87	11.4	11.5	12.7	LOCK	-1.505	13.4	120
		12028.04	H	21991	82.2	77	9.7	9.8	11	LOCK	-1.5	18.4	120
		12053.06	V	22000	81.7	77	9.7	9.8	11	LOCK	-1.504	13.4	120
		12059.5	H	22000	83.2	81	10.4	10.5	11.7	LOCK	-1.456	18.4	125
		12084.056	V	22000	82.4	85	11	11.1	12.3	LOCK	-1.505	13.4	120
		12090.524	H	20000	82.7	92	12.2	12.3	13.5	LOCK	-1.479	18.4	125
		12146.056	V	22000	82.1	91	12.1	12.2	13.4	LOCK	-1.508	13.4	120
		12115.056	V	22425	80.3	73	9.1	9.2	10.4	LOCK	-1.509	13.4	120
		12121.5	H	20000	81.5	76	9.5	9.6	10.8	LOCK	-1.459	18.4	120
		12152.5	H	20000	82.7	74	9.3	9.4	10.6	LOCK	-1.459	18.4	125
		12177.052	V	23000	80.8	81	10.4	10.5	11.7	LOCK	-1.508	13.4	120
Average					81.79	79.87	10.28	10.57	11.58		-1.48		
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
	-97	11706.4	V	7161	79.6	52	6.6	8.4	7.9	LOCK	-1.206	13.4	85
		11910.928	H	10525	83.7	64	7.9	9.7	9.2	LOCK	-1.274	18.4	85
		11789.072	V	28125	85.9	79	10	10.6	11.3	LOCK	-1.264	13.4	85
		11836.072	V	20765	86.3	83	10.7	10.8	12	LOCK	-1.265	13.4	85
		11842.5	H	22000	85.6	47	6.1	6.2	7.4	LOCK	-1.235	18.4	85
		11867.068	V	22000	84.5	74	9.2	9.3	10.5	LOCK	-1.264	13.4	85
		11873.5	H	22000	83.5	56	7	7.6	8.3	LOCK	-1.238	18.4	85
		11898.072	V	22000	85	94	12.6	12.7	13.9	LOCK	-1.265	13.4	85
		11929.064	V	22000	85.3	72	8.8	8.9	10.1	LOCK	-1.263	13.4	85
		11935.5	H	20000	84.8	57	7.2	7.3	8.5	LOCK	-1.244	18.4	85
		11966.5	H	22000	84.9	96	13.3	13.4	14.6	LOCK	-1.241	18.4	85
		11991.064	V	22000	86	84	10.9	11	12.2	LOCK	-1.265	13.4	85
		12022.064	V	22000	85.1	86	11.2	11.3	12.5	LOCK	-1.265	13.4	85
		12028.04	H	21991	85.7	74	9.2	9.3	10.5	LOCK	-1.291	18.4	85
		12053.06	V	22000	86.2	70	8.6	8.7	9.9	LOCK	-1.263	13.4	85
		12059.5	H	22000	86.6	70	8.6	8.7	9.9	LOCK	-1.246	18.4	85
		12084.056	V	22000	86	80	10.3	10.4	11.6	LOCK	-1.262	13.4	85
		12090.524	H	20000	86	90	11.9	12	13.2	LOCK	-1.268	18.4	85
		12146.056	V	22000	86.8	90	11.9	12	13.2	LOCK	-1.265	13.4	85
		12115.056	V	22425	85.5	72	8.8	8.9	10.1	LOCK	-1.265	13.4	85
		12121.5	H	20000	86.7	60	7.5	7.6	8.8	LOCK	-1.247	18.4	85
		12152.5	H	20000	87.6	58	7.3	7.4	8.6	LOCK	-1.248	18.4	85
		12177.052	V	23000	86	80	10.3	10.4	11.6	LOCK	-1.264	13.4	85
Average					85.36	73.39	9.39	9.68	10.69		-1.26		
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
	-97	11706.4	V	7161	73.2	51	6.5	8.3	7.8	LOCK	-0.965	13.4	145
		11910.928	H	10525	78.9	77	9.8	11.6	11.1	LOCK	-0.986	18.4	145
		11789.072	V	28125	77.4	77	9.7	10.3	11	LOCK	-1.021	13.4	145
		11836.072	V	20765	78	80	10.3	10.4	11.6	LOCK	-1.02	13.4	145
		11842.5	H	22000	81	77	9.7	9.8	11	LOCK	-0.95	18.4	145
		11867.068	V	22000	78.1	73	9.1	9.2	10.4	LOCK	-1.016	13.4	145
		11873.5	H	22000	79.9	80	10.3	10.9	11.6	LOCK	-0.952	18.4	145
		11898.072	V	22000	79.5	90	11.9	12	13.2	LOCK	-1.016	13.4	145
		11929.064	V	22000	78.7	73	8.9	9	10.2	LOCK	-1.012	13.4	145
		11935.5	H	20000	80.5	82	10.5	10.6	11.8	LOCK	-0.954	18.4	145
		11966.5	H	22000	82.3	97	14.1	14.2	15.4	LOCK	-0.95	18.4	145
		11991.064	V	22000	81.1	83	10.8	10.9	12.1	LOCK	-1.011	13.4	145
		12022.064	V	22000	81	85	11	11.1	12.3	LOCK	-1.011	13.4	145
		12028.04	H	21991	83.3	82	10.6	10.7	11.9	LOCK	-0.998	18.4	145
		12053.06	V	22000	83.3	69	8.5	8.6	9.8	LOCK	-1.007	13.4	145
		12059.5	H	22000	84	85	11.1	11.2	12.4	LOCK	-0.951	18.4	145
		12084.056	V	22000	82.8	81	10.4	10.5	11.7	LOCK	-1.004	13.4	145
		12090.524	H	20000	82.9	96	13.4	13.5	14.7	LOCK	-0.971	18.4	145
		12146.056	V	22000	84.5	87	11.4	11.5	12.7	LOCK	-1.002	13.4	145
		12115.056	V	22425	82.6	69	8.5	8.6	9.8	LOCK	-1.005	13.4	145
		12121.5	H	20000	83.8	82	10.6	10.7	11.9	LOCK	-0.949	18.4	145
		12152.5	H	20000	84	82	10.6	10.7	11.9	LOCK	-0.947	18.4	150
		12177.052	V	23000	81.4	78	9.9	10	11.2	LOCK	-1	13.4	145
Average					80.97	79.83	10.33	10.62	11.63		-0.99		
PLL321s - Universal	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
	-97	11706.4	V	7161	72.8	52	6.6	8.4	7.9	LOCK	-0.051	13.4	160
		11910.928	H	10525	81.1	75	9.4	11.2	10.7	LOCK	-0.077	18.4	160
		11789.072	V	28125	80.1	84	10.9	11.5	12.2	LOCK	-0.108	13.4	160
		11836.072	V	20765	80.7	82	10.6	10.7	11.9	LOCK	-0.109	13.4	160
		11842.5	H	22000	82.8	73	9	9.1	10.3	LOCK	-0.038	18.4	160
		11867.068	V	22000	81.8	77	9.8	9.9	11.1	LOCK	-0.108	13.4	160
		11873.5	H	22000	82.9	77	9.7	10.3	11	LOCK	-0.041	18.4	160
		11898.072	V	22000	82.7	96	12.9	13	14.2	LOCK	-0.11	13.4	160
		11929.064	V	22000	82.9	77	9.8	9.9	11.1	LOCK	-0.108	13.4	160
		11935.5	H	20000	83.2	78	9.9	10	11.2	LOCK	-0.048	18.4	160
		11966.5	H	22000	83.1	96	13.5	13.6	14.8	LOCK	-0.046	18.4	160
		11991.064	V	22000	83.3	86	11.3	11.4	12.6	LOCK	-0.111	13.4	160
		12022.064	V	22000	82.9	87	11.4	11.5	12.7	LOCK	-0.112	13.4	160
		12028.04	H	21991	83.8	79	10	10.1	11.3	LOCK	-0.098	18.4	160
		12053.06	V	22000	83.2	74	9.3	9.4	10.6	LOCK	-0.111	13.4	160
		12059.5	H	22000	83.9	82	10.6	10.7	11.9	LOCK	-0.053	18.4	160
		12084.056	V	22000	83.1	83	10.8	10.9	12.1	LOCK	-0.111	13.4	160
		12090.524	H	20000	83.5	94	12.6	12.7	13.9	LOCK	-0.076	18.4	160
		12146.056	V	22000	82.9	90	11.9	12	13.2	LOCK	-0.115	13.4	160
		12115.056	V	22425	81.7	73	9	9.1	10.3	LOCK	-0.115	13.4	160
		12121.5	H	20000	82.9	77	9.7	9.8	11	LOCK	-0.057	18.4	160
		12152.5	H	20000	83.5	78	9.9	10	11.2	LOCK	-0.058	18.4	160
		12177.052	V	23000	81.7	82	10.5	10.6	11.8	LOCK	-0.116	13.4	160
Average					82.20	80.52	10.40	10.69	11.70		-0.09		

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
	-97	11706.4	V	7161	74.9	55	7	8.8	8.3	LOCK	-0.06	13.4	155
		11910.928	H	10525	75.5	74	9.3	11.1	10.6	LOCK	-0.09	18.4	155
		11789.072	V	28125	79.9	80	10.2	10.8	11.5	LOCK	-0.118	13.4	155
		11836.072	V	20765	79.1	82	10.5	10.6	11.8	LOCK	-0.119	13.4	155
		11842.5	H	22000	79.9	74	9.3	9.4	10.6	LOCK	-0.048	18.4	155
		11867.068	V	22000	79	72	8.8	8.9	10.1	LOCK	-0.119	13.3	155
		11873.5	H	22000	79.2	79	10	10.6	11.3	LOCK	-0.052	18.4	155
		11898.072	V	22000	78.8	94	12.6	12.7	13.9	LOCK	-0.122	13.4	155
		11929.064	V	22000	79.1	76	9.5	9.6	10.8	LOCK	-0.12	13.4	155
		11935.5	H	20000	79.8	80	10.3	10.4	11.6	LOCK	-0.061	18.4	155
		11966.5	H	22000	79.6	96	13.6	13.7	14.9	LOCK	-0.059	18.3	155
		11991.064	V	22000	79.5	85	11.1	11.2	12.4	LOCK	-0.125	13.4	155
		12022.064	V	22000	80.1	82	10.6	10.7	11.9	LOCK	-0.127	13.4	155
		12028.04	H	21991	81	79	10.1	10.2	11.4	LOCK	-0.112	18.4	155
		12053.06	V	22000	81.2	73	9.1	9.2	10.4	LOCK	-0.125	13.4	155
		12059.5	H	22000	81.6	84	10.9	11	12.2	LOCK	-0.067	18.4	155
		12084.056	V	22000	81.5	83	10.8	10.9	12.1	LOCK	-0.125	13.4	155
		12090.524	H	20000	81.9	95	12.7	12.8	14	LOCK	-0.091	18.4	155
		12146.056	V	22000	81.2	88	11.6	11.7	12.9	LOCK	-0.13	13.4	155
		12115.056	V	22425	80.4	71	8.7	8.8	10	LOCK	-0.129	13.4	155
		12121.5	H	20000	81.6	78	9.9	10	11.2	LOCK	-0.071	18.4	155
		12152.5	H	20000	81.9	77	9.8	9.9	11.1	LOCK	-0.072	18.4	155
		12177.052	V	23000	80	80	10.3	10.2	11.4	LOCK	-0.13	13.4	155
Average					79.86	79.87	10.29	10.57	11.58		-0.10		
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
	-97	11706.4	V	7161	68.1	47	6	7.8	7.3	LOCK	-0.343	13.4	115
		11910.928	H	10525	73.6	73	9	10.8	10.3	LOCK	-0.364	18.4	115
		11789.072	V	28125	75.8	85	11	11.6	12.3	LOCK	-0.4	13.4	115
		11836.072	V	20765	75.9	82	10.6	10.7	11.9	LOCK	-0.4	13.4	115
		11842.5	H	22000	75.6	65	8.1	8.2	9.4	LOCK	-0.327	18.4	115
		11867.068	V	22000	74.5	88	11.5	11.6	12.8	LOCK	-0.397	13.4	115
		11873.5	H	22000	74.5	71	8.7	9.3	10	LOCK	-0.329	18.4	115
		11898.072	V	22000	76.3	92	12.2	12.3	13.5	LOCK	-0.399	13.4	115
		11929.064	V	22000	74.7	82	10.6	10.7	11.9	LOCK	-0.396	13.4	115
		11935.5	H	20000	74.9	73	8.9	9	10.2	LOCK	-0.333	18.4	115
		11966.5	H	22000	76	90	11.9	12	13.2	LOCK	-0.329	18.4	115
		11991.064	V	22000	76.2	86	11.3	11.4	12.6	LOCK	-0.395	13.4	115
		12022.064	V	22000	74.4	95	12.8	12.9	14.1	LOCK	-0.396	13.4	115
		12028.04	H	21991	76.9	77	9.7	9.8	11	LOCK	-0.378	18.4	115
		12053.06	V	22000	77	78	9.9	10	11.2	LOCK	-0.391	13.4	115
		12059.5	H	22000	78.1	76	9.5	9.6	10.8	LOCK	-0.33	18.4	115
		12084.056	V	22000	75.9	88	11.6	11.7	12.9	LOCK	-0.387	13.4	115
		12090.524	H	20000	77.1	87	11.4	11.5	12.7	LOCK	-0.35	18.4	115
		12146.056	V	22000	76.9	90	11.9	12	13.2	LOCK	-0.388	13.4	115
		12115.056	V	22425	75.4	76	9.5	9.6	10.8	LOCK	-0.389	13.4	115
		12121.5	H	20000	78	77	9.7	9.8	11	LOCK	-0.329	18.4	115
		12152.5	H	20000	78.2	75	9.4	9.5	10.7	LOCK	-0.328	18.4	115
		12177.052	V	23000	75	85	11.1	11.2	12.4	LOCK	-0.387	13.4	115
Average					75.61	79.91	10.27	10.57	11.57		-0.37		
Invacom SNH031 - Universal	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
	-97	11706.4	V	7161	67.9	51	6.5	8.3	7.8	LOCK	2.561	13.4	100
		11910.928	H	10525	74.7	75	9.4	11.2	10.7	LOCK	2.542	18.4	100
		11789.072	V	28125	72.7	82	10.6	11.2	11.9	LOCK	2.504	13.4	100
		11836.072	V	20765	74.3	83	10.8	10.9	12.1	LOCK	2.503	13.4	100
		11842.5	H	22000	75.8	67	8.3	8.4	9.6	LOCK	2.579	18.4	100
		11867.068	V	22000	73.4	85	11.1	11.2	12.4	LOCK	2.508	13.4	100
		11873.5	H	22000	74.1	73	9.1	9.7	10.4	LOCK	2.578	18.4	100
		11898.072	V	22000	75.9	95	12.7	12.8	14	LOCK	2.508	13.4	100
		11929.064	V	22000	74.7	74	9.3	9.4	10.6	LOCK	2.51	13.4	100
		11935.5	H	20000	76	74	9.2	9.3	10.5	LOCK	2.572	18.4	100
		11966.5	H	22000	76	96	13.7	13.8	15	LOCK	2.576	18.4	100
		11991.064	V	22000	76.3	85	11.1	11.2	12.4	LOCK	2.508	13.4	100
		12022.064	V	22000	74.9	95	12.8	12.9	14.1	LOCK	2.506	13.4	100
		12028.04	H	21991	75.5	85	11	11.1	12.3	LOCK	2.523	18.4	100
		12053.06	V	22000	76.8	74	9.2	9.3	10.5	LOCK	2.509	13.4	100
		12059.5	H	22000	77.7	79	10.1	10.2	11.4	LOCK	2.57	18.4	100
		12084.056	V	22000	75	84	10.9	11	12.2	LOCK	2.51	13.4	100
		12090.524	H	20000	75.6	95	13.2	13.3	14.5	LOCK	2.547	18.4	100
		12146.056	V	22000	75.9	91	12.1	12.2	13.4	LOCK	2.507	13.4	100
		12115.056	V	22425	74.5	73	9.1	9.2	10.4	LOCK	2.507	13.4	100
		12121.5	H	20000	77.2	83	10.7	10.8	12	LOCK	2.567	18.4	100
		12152.5	H	20000	77.8	82	10.6	10.7	11.9	LOCK	2.567	18.4	100
		12177.052	V	23000	75.8	87	11.4	11.5	12.7	LOCK	2.508	13.4	100
Average					75.15	81.22	10.56	10.85	11.86		2.53		

Model Averages	Level	Quality	CNR	Eb/No	Es/No	LO Center	TP Locked
Chaparral	81.79	79.87	10.28	10.57	11.58	-1.48	23
ESX521	85.36	73.39	9.39	9.68	10.69	-1.26	23
ESX522	80.97	79.83	10.33	10.62	11.63	-0.99	23
PLL321s	82.20	80.52	10.40	10.69	11.70	-0.09	23
SL1PLL	79.86	79.87	10.29	10.57	11.58	-0.10	23
SL2 Bullet	75.61	79.91	10.27	10.57	11.57	-0.37	23
Invacom SNH031	75.15	81.22	10.56	10.85	11.86	2.53	23