Results of **NF-Measurements**

and

Noise-Head ENR

Thanks to my 2nd-Operator, EDDY, ON7UN

Our notes on 144 MHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
SM3JQU	I0JXX		0.52	25	
SM2CEW			0.62	24.5	BROADBAND LNA

Our notes on 432 MHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
SM7THS	VHF D		0.67	18.4	
SM2CEW			0.79	21	BROADBAND LNA

Our notes on 1296 MHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
SM4GGC	DDK		0.64	36	
SM3JQU	DDK		0.27	40	
SM6PGP			0.32	37	
ON7UN	HB9BBD		0.15	42	
HB9BBD	HB9BBD		0.15	42	
РА7ЈВ	VHF D		0.38	34	
KL6M	W7CNK		0.32	34	
KL6M	HB9BBD		0.2	42,6	
SM2CEW	SM2CEW		0.88	12	BROADBAND

Our notes on 2400 MHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
SM3JQU	DDK		0.39	26	
WB2BYP	WD5AGO		0.52	27	
SM6PGP			0.45	26	
SM2CEW			NO	NO	BROADBAND

Our notes on 3,4 GHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
WA9FWB	HARRIS		5.4	15	
KL6M - 1			0.86	11	
KL6M - 2			0.61	14	

Our notes on 5,7 GHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
SM3JQU	DB6NT		0.84	28	
SM6PQP			0.73	20	
KL6M - 1	HARRIS		1	28	
KL6M - 2			0.86	13	
KLM - 3			0.8	8.7	
KL6M - 4			0.81	13	
WA9FWB			5.8	10.6	
PA2DW	CHINESE		NO	NO	

Our notes on 10 GHz LNAs

OWNER	MADE BY	#	NF	GAIN	REMARKS
WB2BYP	DU2		0.81	26	INCL ADAPTOR 0.1DB
HB9BBD	HB9BBD		0.76	22	INCL ADAPTOR 0.1DB
KL6M - 1	HARRIS		1.26	20.6	
KL6M - 2			2.14	17	
WB9FWB			2.2	23.6	WIDEBAND
SM6PGP	W6PY		0.86	20.6	
SM2CEW -1	TVRO		1.36	21	INCL ADAPTOR 0.1DB
SM2CEW-2	TVRO		1.05	21	INCL ADAPTOR 0.1DB

Quantitative Summary

144 MHz	2
432 MHz	2
1296 MHZ	9
2.3 GHz	4
3.4 GHz	3
5.7 GHz	8
10 GHz	8
Total LNA	36
Noise Heads	17

Noise-Sources

I will hand out all Graphs to Peter, SM2CEW for distribution. Please refer to him for your documented noise head

A good noise source has an ENR with little ripple and a flat pattern. Please consider the blue curve as a reference for the ENR calculation

How to calculate your ENR?

Add to the value of your Noise-Source shown e.g. @1296 MHz (0.772) to the ENR of my SNS Noise-Head @1296 MHz (interpolation!) 5.551 + 0.772 = 6.323The result is the calibrated ENR of your Noise-Head

Noise-Sources Low Bands

Example



The Graphs..

ENR Reference to calculate your ENR:

Frequency 10.000000	00 MHz			
ENR Table				
Noise Source Serial Number US41120217 Noise Source Model ID N4000A	Frequency 10.0000000 MHz 100.000000 MHz 1.00000000 GHz 2.00000000 GHz 3.00000000 GHz 4.00000000 GHz 5.00000000 GHz 5.00000000 GHz 8.00000000 GHz 9.00000000 GHz 10.0000000 GHz 11.0000000 GHz 12.0000000 GHz 12.0000000 GHz 13.0000000 GHz	ENR Value 5.452 dB 5.557 dB 5.423 dB 5.494 dB 5.518 dB 5.507 dB 5.469 dB 5.469 dB 5.477 dB 5.453 dB 5.527 dB 5.566 dB 5.554 dB 5.584 dB 5.595 dB	<u>5.5</u> 5	
Use 'File' key to Load or Save a table	9.			

The Graphs..

ENR Reference to calculate your ENR:

ENR Table
Noise Source Serial Number Frequency ENR Value US41120217 100.000000 GHz 5.557 dB Noise Source Model ID 3.00000000 GHz 5.507 dB N4000A 5.00000000 GHz 5.007 dB N0000000 GHz 5.00000000 GHz 5.469 dB 5.00000000 GHz 5.469 dB 5.477 dB 5.00000000 GHz 5.453 dB 5.453 dB 9.00000000 GHz 5.557 dB 5.453 dB 5.00000000 GHz 5.469 dB 5.453 dB 5.00000000 GHz 5.554 dB 5.554 dB 10.0000000 GHz 5.554 dB 5.554 dB 11.00000000 GHz 5.554 dB 5.595 dB 13.0000000 GHz 5.499 dB 5.499 dB 5.595 dB 5.595 dB 5.529 dB