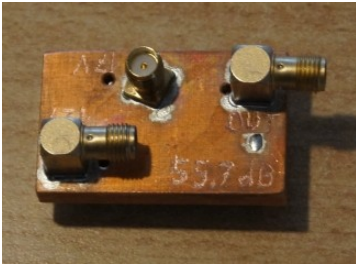


Measurement Report

OCTAGON Single LNB Optima (Model OSLO) #1:

Modifications made by OE7DBH:

26 MHz instead of 27 MHz quartz
 Input SMA jack instead of LNB horn
 Output SMA jack instead of F jack



Measurement equipment:

EATON 2075 gain & noise analyzer
 CANFI (cheap automatic noise figure indicator)
 Homemade noise source up to 12 GHz (ENR = 8.80 dB @ 10368 MHz)
 35 dB attenuator, tee-bias, power supply

Measurement results:

$f_{LO} = 9388,9 \text{ MHz}$ ($9750/27 \cdot 26$)

$f_{in} = 10480 \text{ MHz}$

$f_{out} = 1091.1 \text{ MHz}$ with 12V power supply (vertical input)





	EATON 2075		CANFI	
	NF	GAIN*	NF	GAIN*
10480 MHz+	2.8 dB	14.8 dB	2.9 dB	14.8 dB

+ CANFI: 10474/1085 MHz because of frequency gap of SDR stick between 1088-1220 MHz
 * add approx. 41 dB because of additional attenuator after DUT

$f_{\text{out}} = 1091.1 \text{ MHz}$ with 17V power supply (horizontal input)





	EATON 2075		CANFI	
	NF	GAIN*	NF	GAIN*
10480 MHz+	2.2 dB	15.1 dB	2.2 dB	15.2 dB

+ CANFI: 10474/1085 MHz because of frequency gap of SDR stick between 1088-1220 MHz

* add approx. 41 dB because of additional attenuator after DUT

OCTAGON Single LNB Optima (Model OSLO) #2:

Modifications made by OE7DBH:

26 MHz instead of 27 MHz quartz
Input SMA jack instead of LNB horn
Output SMA jack instead of F jack



Measurement equipment:

EATON 2075 gain & noise analyzer
CANFI (cheap automatic noise figure indicator)
Homemade noise source up to 12 GHz (ENR = 8.80 dB @ 10368 MHz)
35 dB attenuator, tee-bias, power supply

Measurement results:

$f_{LO} = 9388,9 \text{ MHz}$ (9750/27*26)

$f_{in} = 10480 \text{ MHz}$

$f_{out} = 1091.1 \text{ MHz}$ with 12V power supply (vertical input)





	EATON 2075		CANFI	
	NF	GAIN*	NF	GAIN*
10480 MHz+	2.7 dB	13.8 dB	2.8 dB	13.3 dB

+ CANFI: 10474/1085 MHz because of frequency gap of SDR stick between 1088-1220 MHz

* add approx. 41 dB because of additional attenuator after DUT

$f_{\text{out}} = 1091.1$ MHz with 17V power supply (horizontal input)





	EATON 2075		CANFI	
	NF	GAIN*	NF	GAIN*
10480 MHz+	1.6 dB	16.5 dB	1.7 dB	16.5 dB

+ CANFI: 10474/1085 MHz because of frequency gap of SDR stick between 1088-1220 MHz

* add approx. 41 dB because of additional attenuator after DUT