

ME222T-PRO 222MHz Transverter Measurements

RX Measurements: (by HG5AZB laboratory)

Measuring equipments: R&S SMU200/A, R&S FSIQ3, Anritsu MS2661C, MS2668C

Front end: **PGA-103+**

IF mixer: **HJK-251H+**

Transverter Gain: **22dB**

LO: 194MHz **+20dBm**

RX OIP3 : **> +27dBm** @ 25KHz

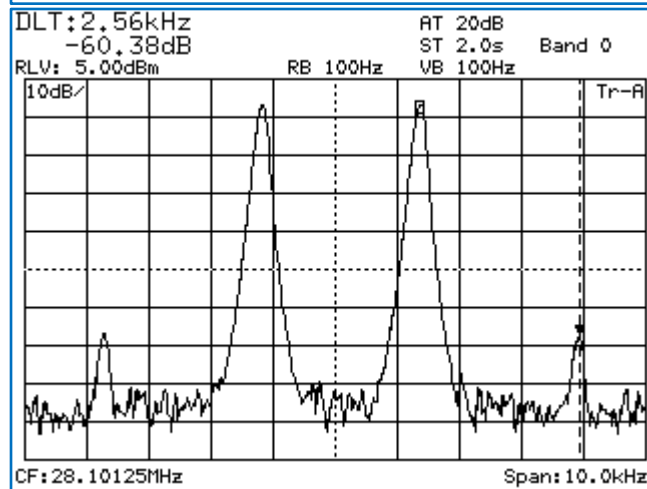
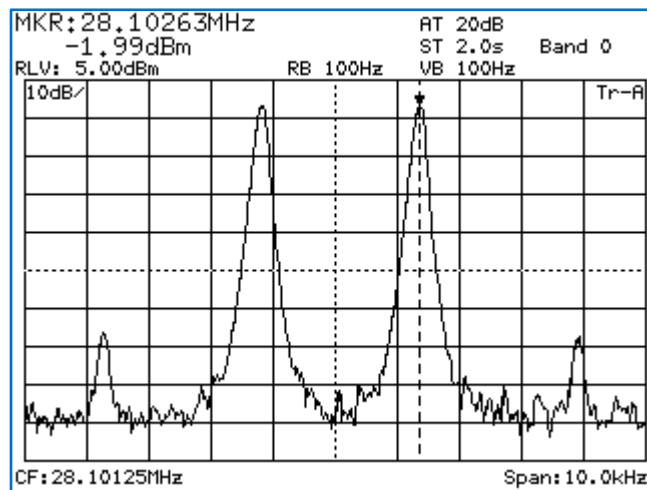
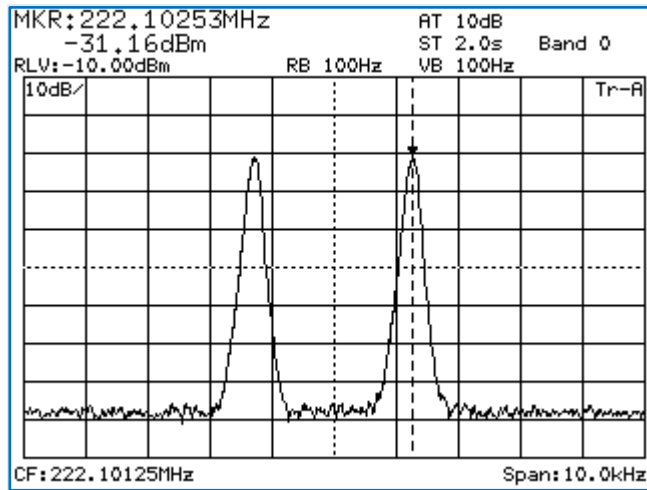
RX IP3 : **+5dBm**

RX noise figure measurement (overall)

Direct		NOISE & GAIN		CALIBRATED	
RBW:	1 MHz	RF Atten.	0 dB	2nd Stage Corr.	On
Average:	1	Auto Ref Level	On	Image Rejection	...
Current Value					
RF:	30 MHz	ENR	6.5 dB	NF.	1.23 dB
LO:	...	Loss In	0 dB	Noise Temp.	94.86 K
IF:	...	Loss Out	0 dB	Gain	19.87 dB
Frequency List Results					
RF	NF	Noise Temp	Gain		
28.00 MHz	1.20 dB	92.14 K	21.97 dB		
28.10 MHz	1.20 dB	92.11 K	22.03 dB		
28.20 MHz	1.18 dB	90.87 K	22.42 dB		
28.30 MHz	1.21 dB	93.03 K	22.59 dB		
28.40 MHz	1.20 dB	92.24 K	22.57 dB		
28.50 MHz	1.15 dB	88.11 K	22.47 dB		
28.60 MHz	1.17 dB	89.95 K	21.97 dB		
28.70 MHz	1.15 dB	88.28 K	22.27 dB		
28.80 MHz	1.16 dB	88.63 K	22.09 dB		
28.90 MHz	1.11 dB	84.50 K	22.55 dB		
29.00 MHz	1.23 dB	94.93 K	22.21 dB		
29.10 MHz	1.26 dB	97.28 K	21.96 dB		
29.20 MHz	1.22 dB	93.96 K	22.13 dB		
29.30 MHz	1.24 dB	95.89 K	21.67 dB		
Running ...					
PGA103 1296.BMP					
Date: 30.JAN.2014 09:43:35					

RX MEASUREMENTS

Input signal for OIP3 measurements:



TCXO: AXTAL factory [measurements](#)