

FEEDHORN TESTS - SEPT. 24, 2013 - KL7UW

DESCRIPTION:	MEASUREMENT:	No. 1	No. 2	Ygnd/cs	Y50/cs	VK3UM
		DBm	DBm	DB	DB	DB
W2IMU FEED	XVTR OFF	-76.4				
	XVTR ON	-75.2				
	LNA ON (unterm)	-73.6				
	LNA INTO 50-Ohm Load	-56.5			9.4	
	Cold sky (zenith)	-65.9	-65.8			
	Ground (nearby shed)	-58.2		7.7		7.73 ¹
	LNA thru relay 50-Ohm	-57.1			7.8	
	LNA thru relay cold sky	-64.9		6.7		
	LNA INTO 50-Ohm Load ⁴		-58.2		6.7	
SEPTUM FEED	Cold sky (zenith)	-61.1				
	Ground (nearby shed)	-59.9		1.2	2.9	6.36 ²
SEPTUM w/ Sq. Horn	Cold sky (zenith)	-61.9				
	Ground (nearby shed)	-58.4		3.5	3.7	7.3 ³

Notes:

- 1- VK3UM calc for f/d = 0.50
- 2- VK3UM calc for f/d = 0.38
- 3- VK3UM calc for septum w/flush choke
- 4- LNA w/ sma/NF & sma/NM adapters