

TFD #1 - Preliminary Results

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Test Equipment

Array Solutions VNA-2180 vector network analyzer, S/N 5249

Acer Aspire 5570Z laptop computer

VNA software version 530D

Device Under Test

Buxcomm 16:1 balun, P/N B15C161

Balun #2

Buxcomm 800 Ω resistor, P/N BTRX800

Resistor #2 (Measured at 803 Ω)

TFD Antenna, N-S orientation, top wire height 9'2", 30' length, 8" wire spacing

Test Results Directory

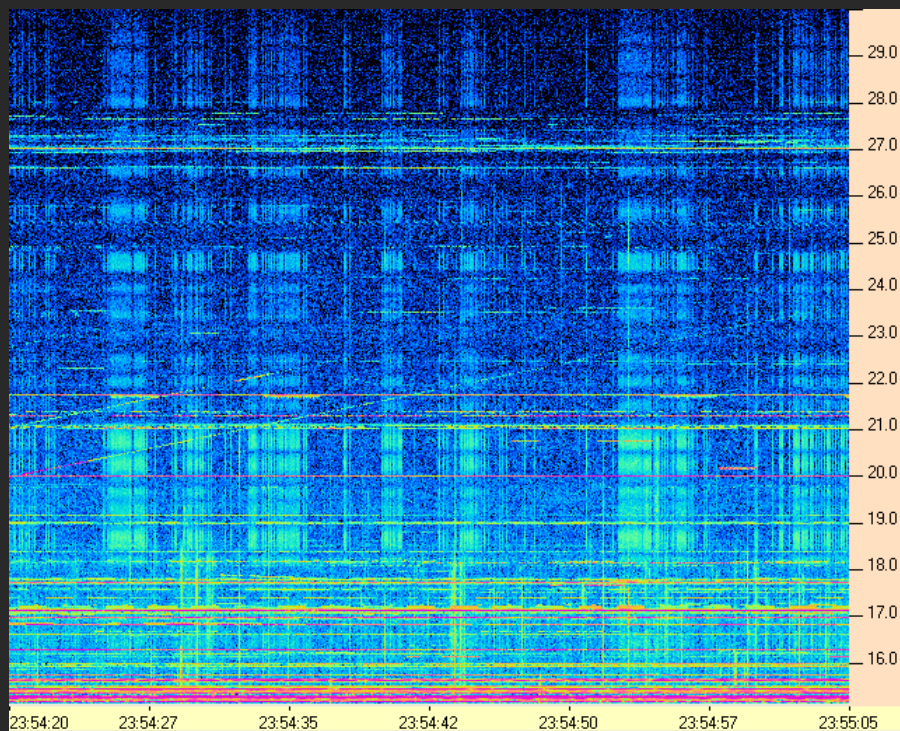
Test No.	Date	Calibration File	Data File	Calibration Plane	Notes
1	9/8/12	Cal 26.acal	03- post claibration.csv †	Port A of VNA-2180	Calibration sweep
2	"	"	Balun 2 - 9ft 4in ant ht - at VNA.csv †	"	Through ~ 170' of LMR-400
3	"	"	Balun 2 - 9ft 4in ant ht - ref to ant thru 170ft LMR-400.csv †	"	With "ref to ant" feature.

† Indicates data plotted on following pages

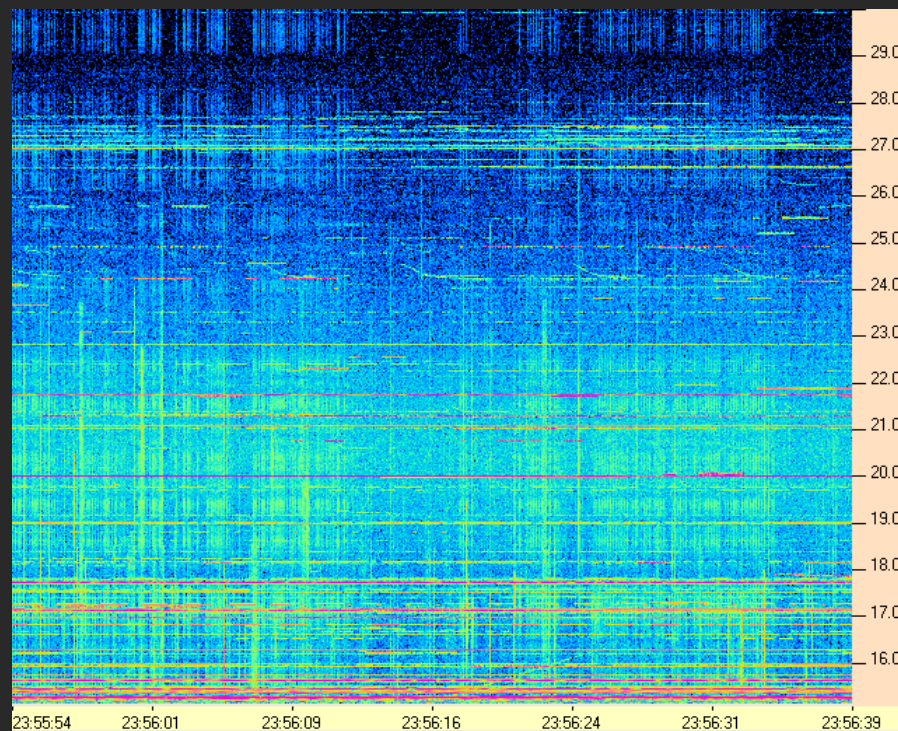
TFD Feed point, Balun, and Terminator



Comparison with SuperJove Array Using SDR-14 Spectrograph

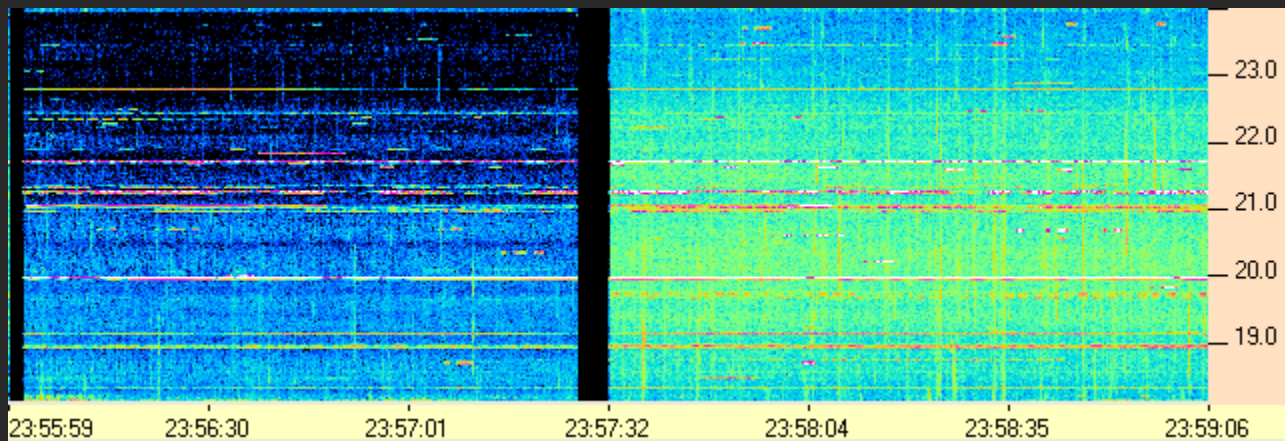


TFD



SuperJove array

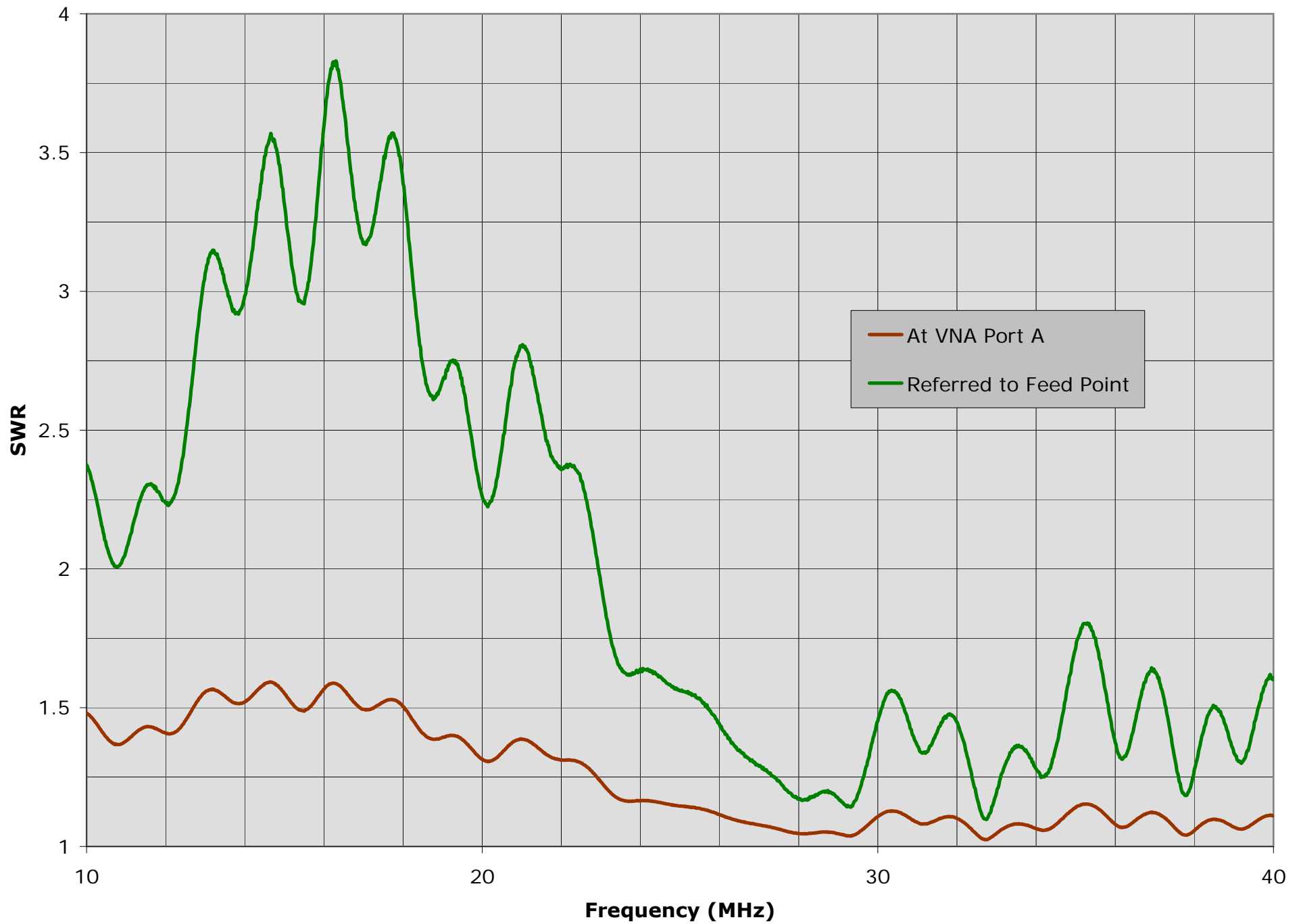
Comparison with SuperJove Array Using FS-200 Spectrograph



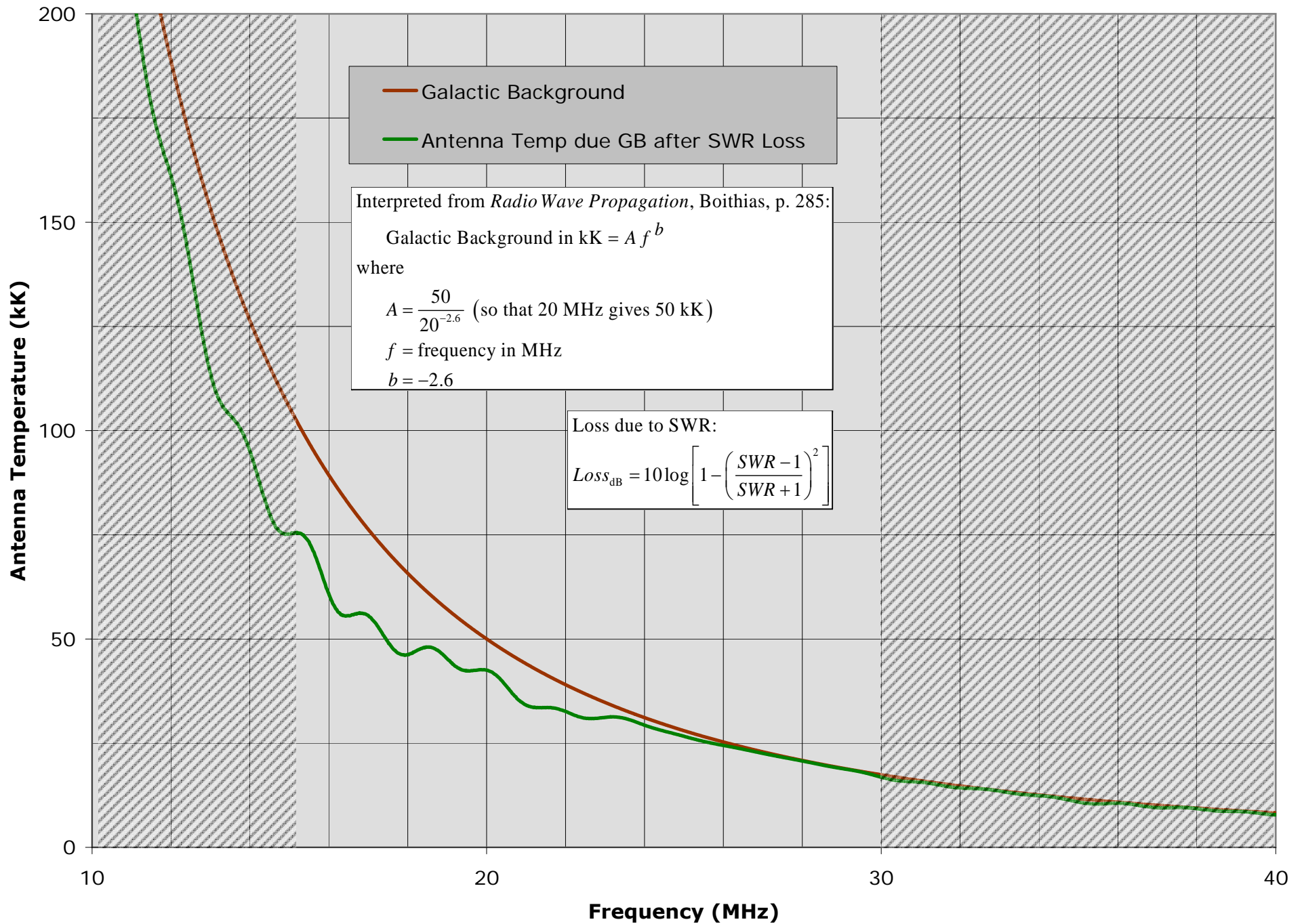
TFD

SuperJove array

TFD #1 - SWR



Predicted Galactic Background Curve based on Measured SWR



TFD #1 - |Z|

