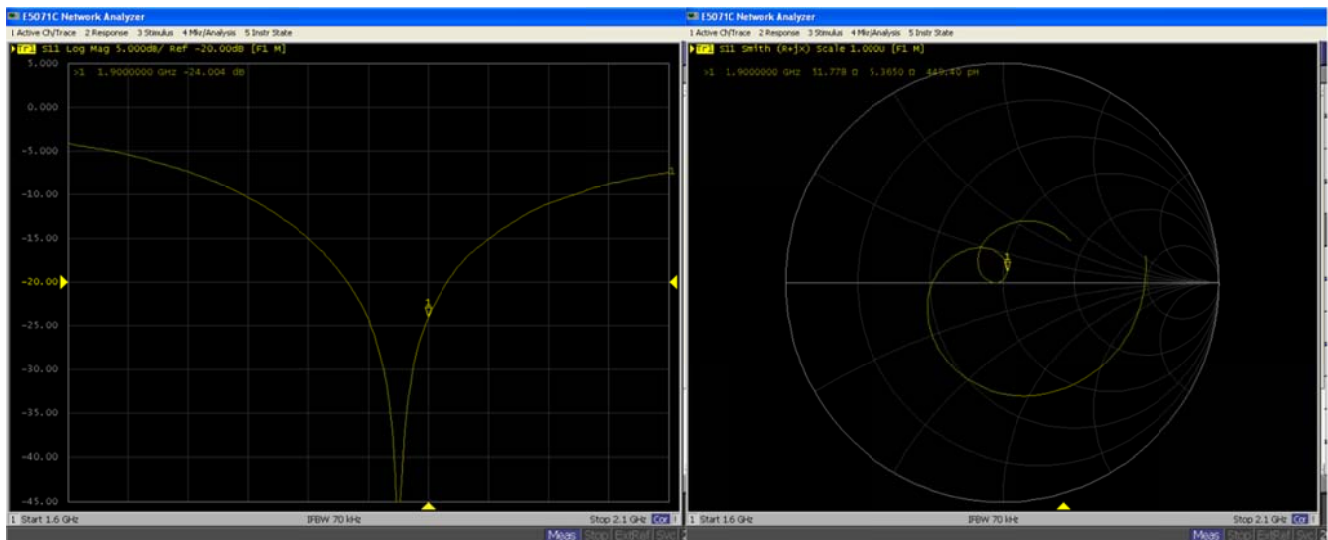


Appendix F. Extended Dipole Calibrations

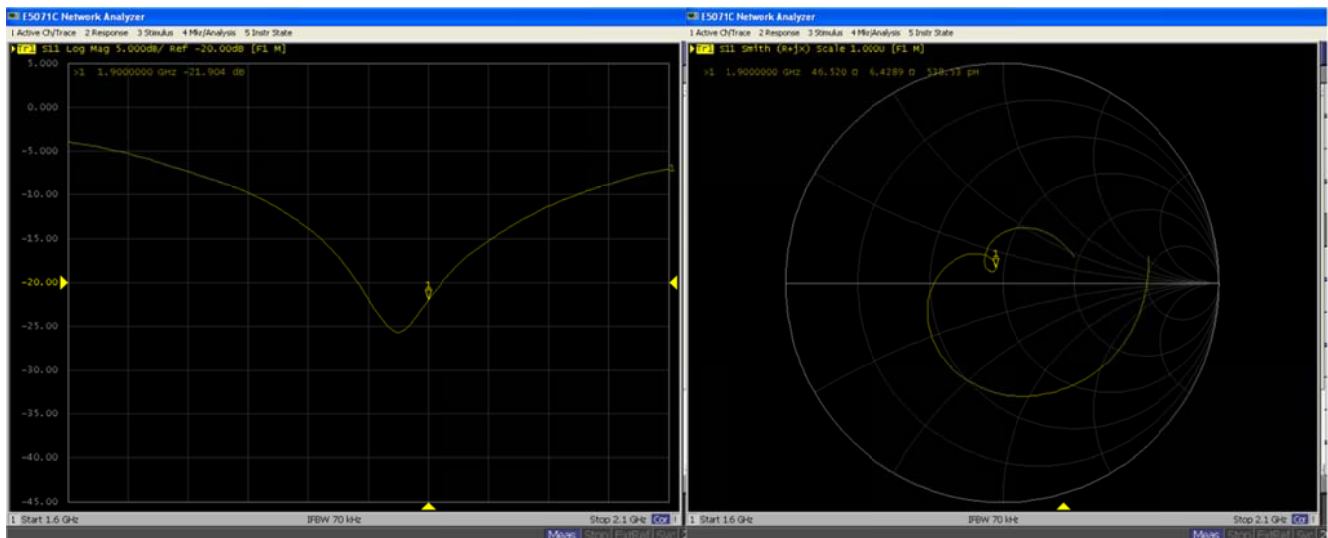
Referring to KDB 450824, if dipoles are verified in return loss (< -20 dB, within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

<Dipole Verification Data>- D1900V2, serial no. 5d118

1900MHz – Head



1900MHz - Body



<Justification of the extended calibration>

D1900V2 – serial no. 5d118												
	1900 Head						1900 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
11.24.2009	-24.147		52.186		5.9629		-21.943		46.826		7.084	
11.23.2010	-24.004	0.143	51.778	0.408	5.365	0.5979	-21.904	0.039	46.52	0.306	6.4289	0.6551

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.