D1900V2, serial no. 5d150 Extended Dipole Calibrations

Referring to KDB 865664D01V01r03, if dipoles are verified in return loss (<-20dB, 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.

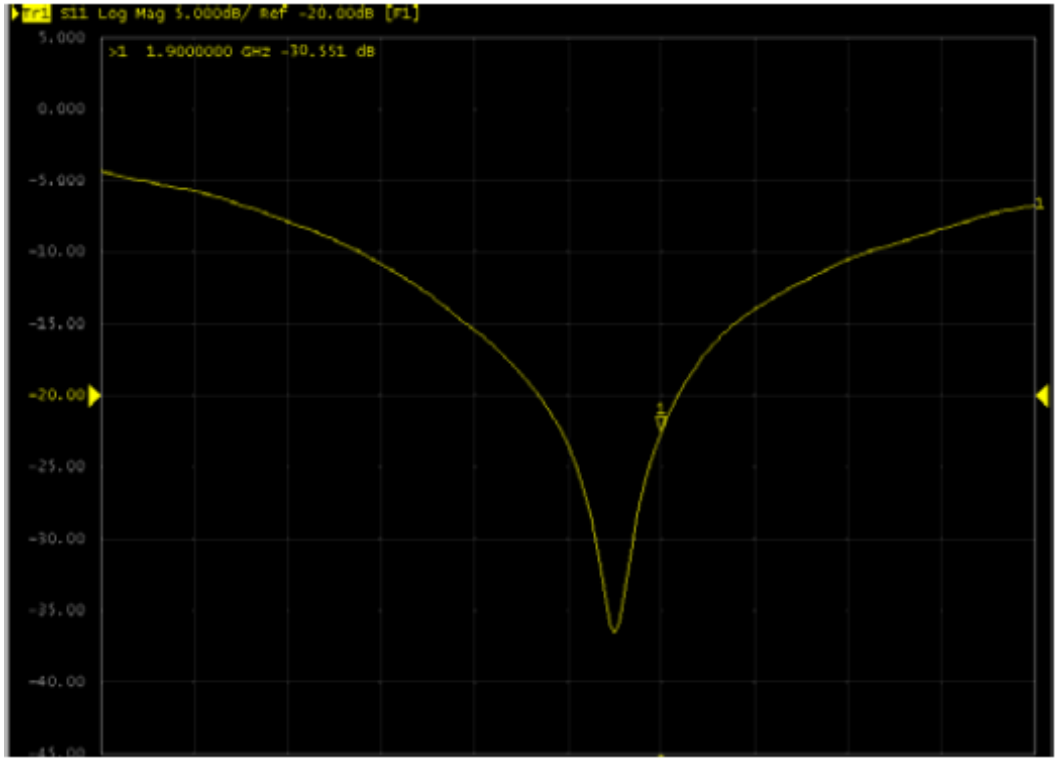
<Justification of the extended calibration>

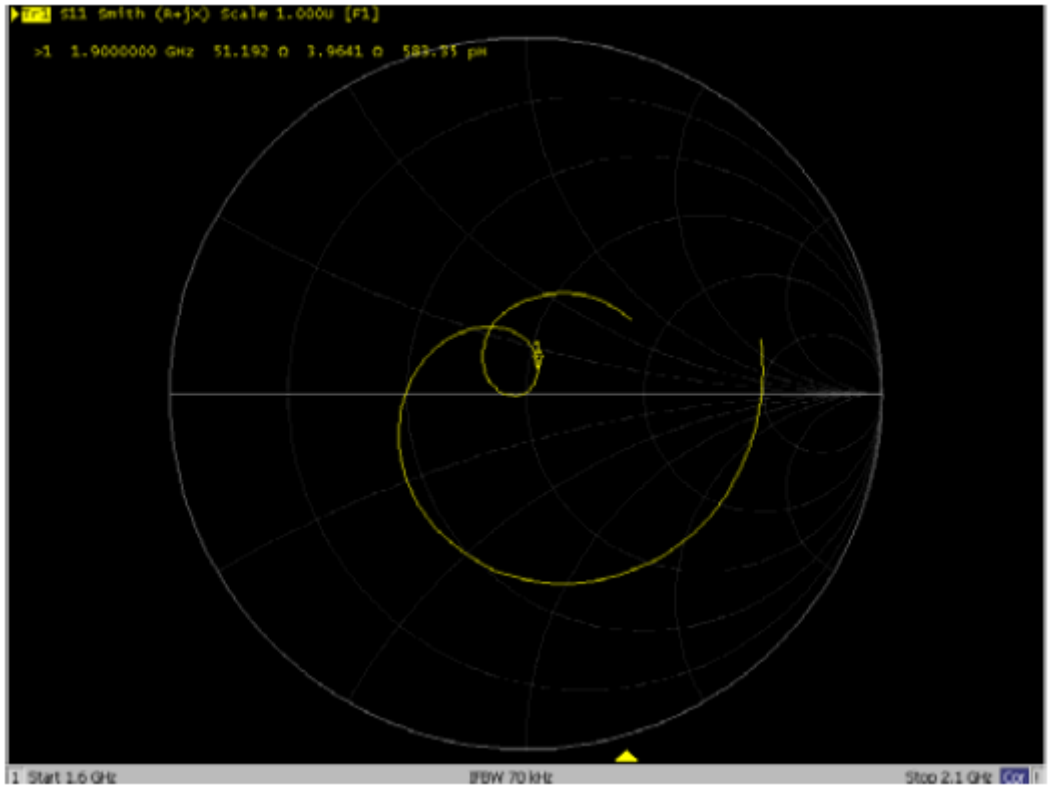
D1900V2 – serial no. 5d150												
	1900 Head						1900 Body					
Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2013-12-12	-30.0		50.3		3.17		-27.7		48.8		3.92	
2014-12-08	-30.551	1.84	51.192	0.892	3.9641	0.7941	-27.412	-1.04	47.419	-1.381	4.1127	0.1927

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.

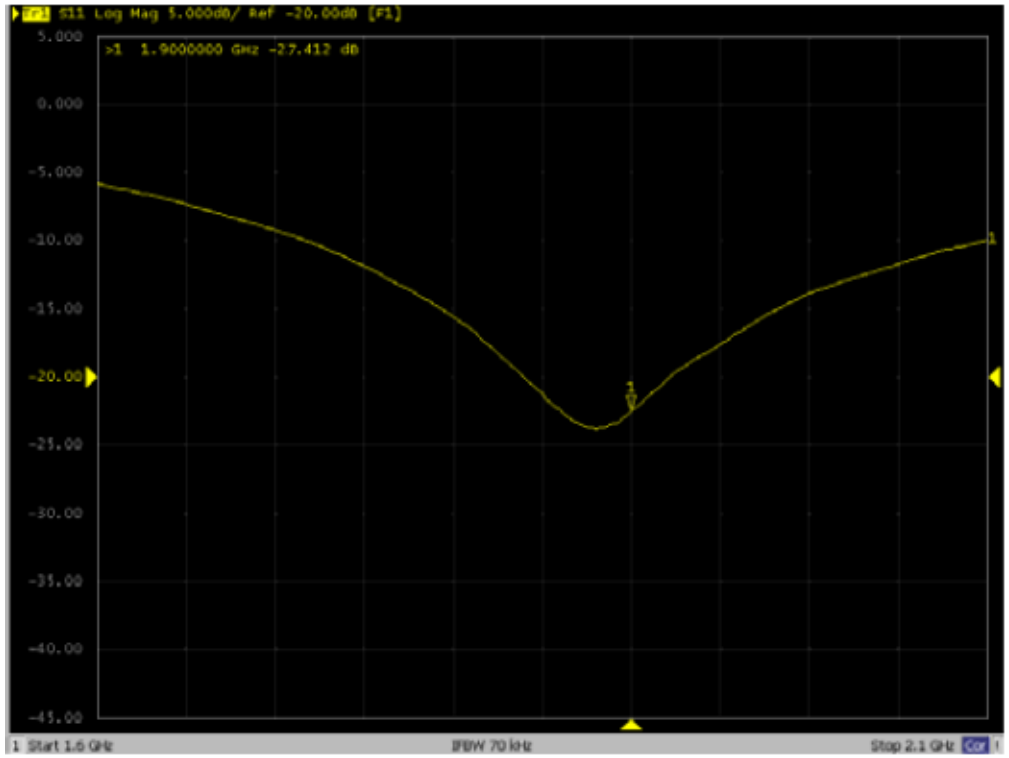
<Dipole Verification Data>- D1900V2, serial no. 5d150

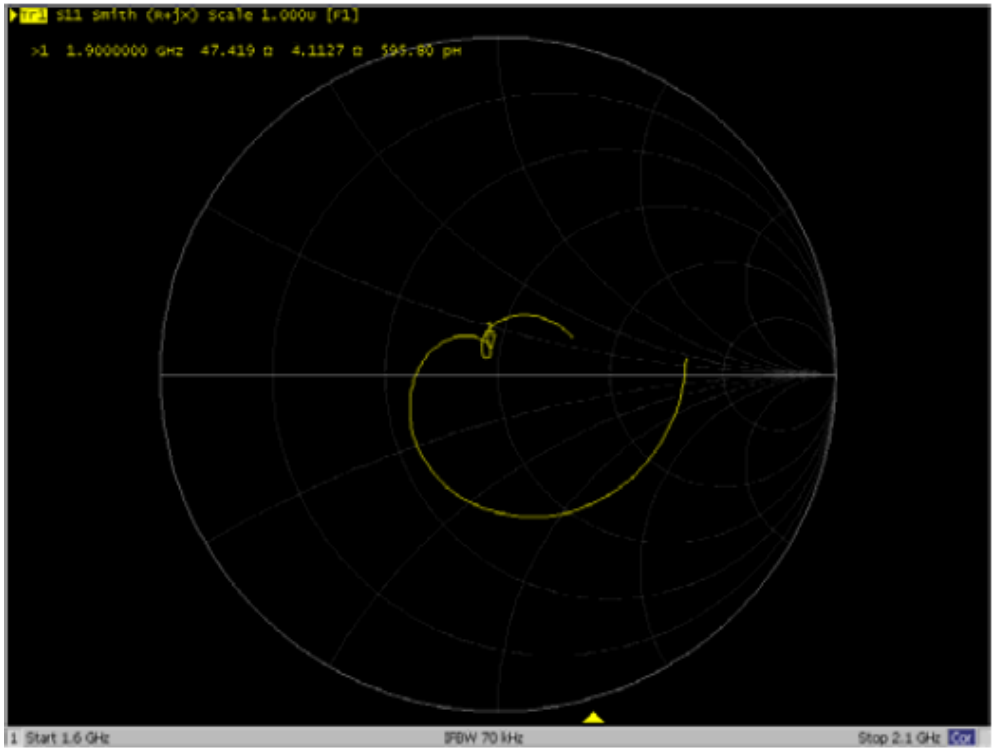
1900MHz – Head




Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
>1 1.9000000 GHz 51.192 Ω 1.9641 Ω 589.55 pH
1 Start 1.6 GHz
IFBW 70 kHz
Stop 2.1 GHz

1900MHz – Body




Tr1 S11 Smith (R+jX) Scale 1.000U [F1]
>1 1.9000000 GHz 47.419 Ω 4.1127 Ω 595.80 pH
1 Start 1.6 GHz
IFBW 70 kHz
Stop 2.1 GHz