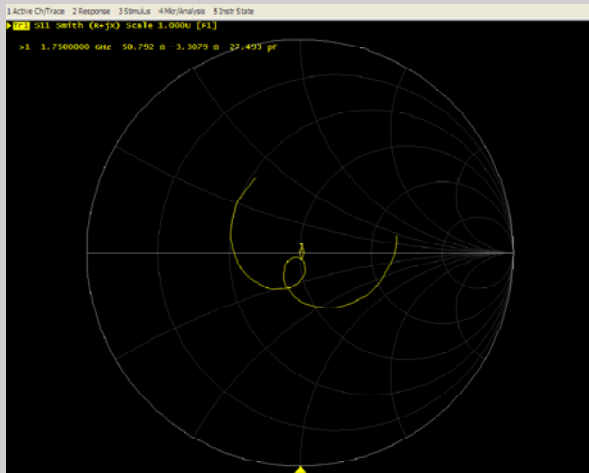
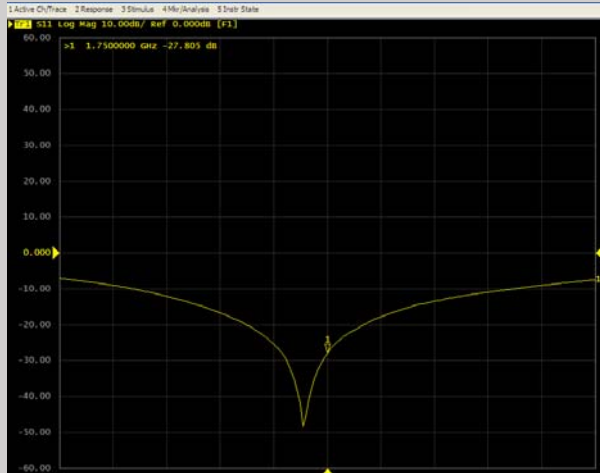
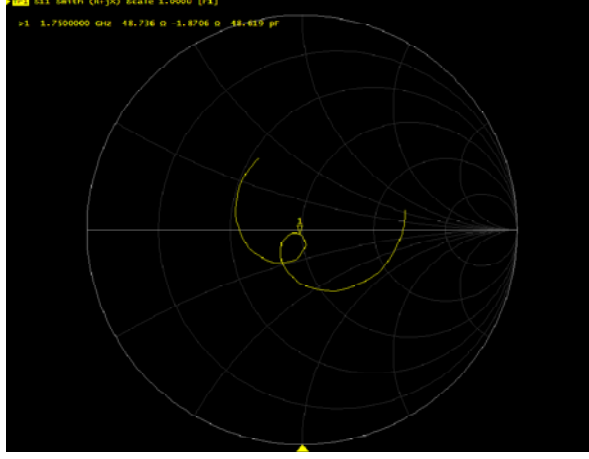
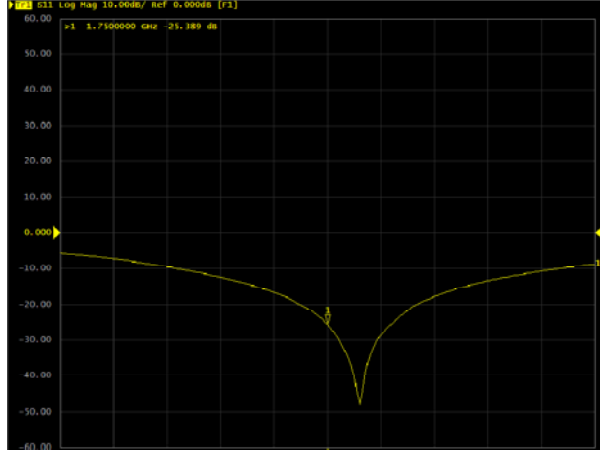


Justification of the extended calibration of Dipole D1750V2 SN: 1021

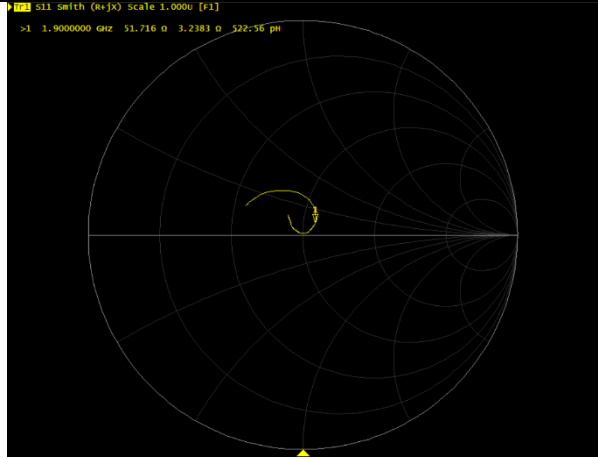
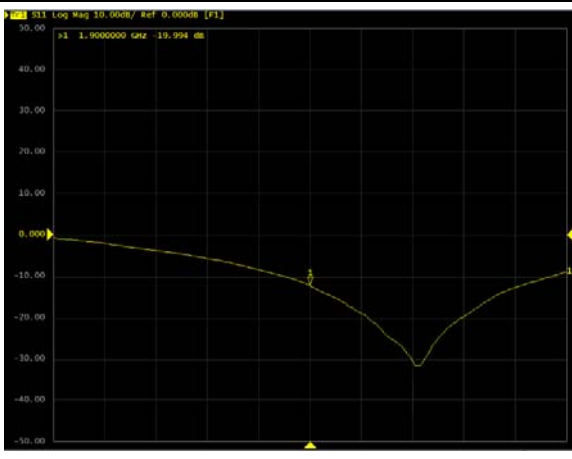
Per KDB 865664, we have Measured the Impedance and Return Loss as below, and the return loss is $< -20\text{dB}$, with 20% of prior calibration; the real or imaginary parts of the impedance is with 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole 1750 Head TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	$48.6\Omega - 1.40j\Omega$	$50.79\Omega - 3.31j\Omega$	$R=2.19\Omega, X=-1.91\Omega$
Return Loss	-33.9dB	-27.81dB	17.96%
Dipole 1750 Body TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	$46.0\Omega + 0.61j\Omega$	$48.74\Omega - 1.87j\Omega$	$R=2.74\Omega, X=-1.48\Omega$
Return Loss	-27.5dB	-25.39dB	7.67%
Measured Date	2016-07-01	2018-06-25	-----
Impedance Test-Head		Return Loss Test-Head	
			
Impedance Test-Body		Return Loss Test- Body	
			

Justification of the extended calibration of Dipole D1900V2 SN: 5d179

Per KDB 865664, we have Measured the Impedance and Return Loss as below, and the return loss is

<-20dB, with 20% of prior calibration; the real or imaginary parts of the impedance is with 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Dipole 1900 Head TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	53.2Ω+5.44jΩ	51.72Ω+3.24jΩ	R=-1.48Ω,X=-2.20Ω
Return Loss	-24.3dB	-20.00dB	17.70%
Dipole 1900 Body TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	48.9Ω+5.75jΩ	49.59Ω+6.94jΩ	R=0.69Ω,X=1.19Ω
Return Loss	-24.6dB	-26.23dB	6.63%
Measured Date	2016-06-15	2018-06-10	-----
Impedance Test-Head		Return Loss Test-Head	
			
Impedance Test-Body		Return Loss Test- Body	
