

Dipole antenna extended dipole calibrations.

Per KDB 865664, 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.

Justification of extended calibration

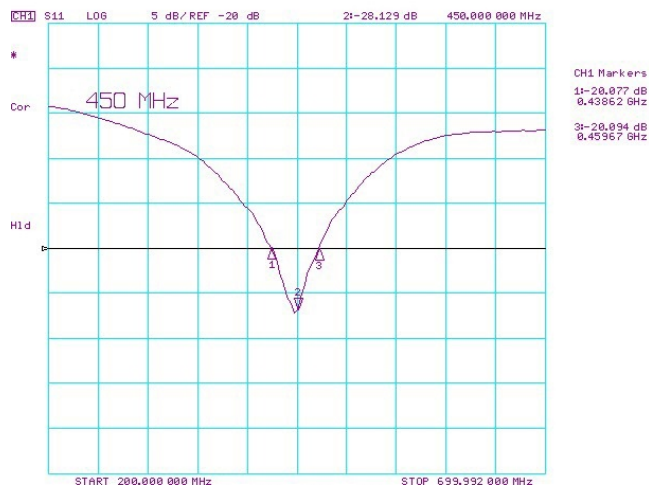
450 MHz Dipole(MN: ALS-D-450-S-2)						
Head tissue						
Date of Measurement	Return-Loss (dB)	Delta (%)	Impedance (Ω)	Delta (Ω)	SWR (μ)	Delta (μ)
2015. 08. 28.	-27.351	-	51.469	-	1.106	-
2016. 08. 28.	-28.129	2.845	51.097	0.372	1.1314	-0.0254

450 MHz Dipole(MN: ALS-D-450-S-2)						
Body tissue						
Date of Measurement	Return-Loss (dB)	Delta (%)	Impedance (Ω)	Delta (Ω)	SWR (μ)	Delta (μ)
2015. 08. 28.	-28.473	-	47.923	-	1.104	-
2016. 08. 28.	-29.048	2.019	48.941	-1.018	1.1988	-0.0948

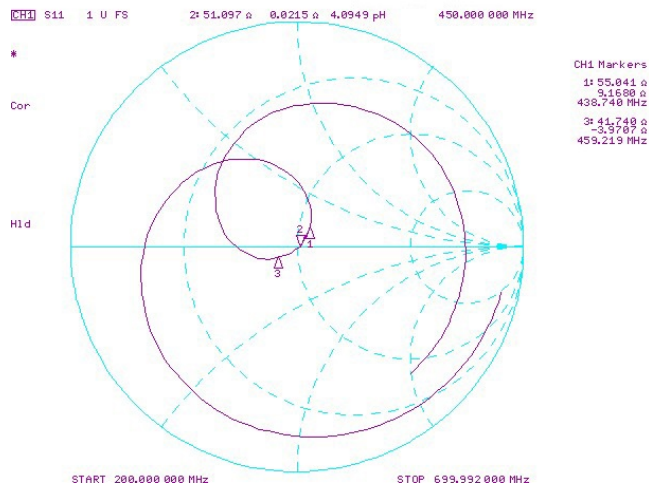
The return-loss is <20 dB, within 20 % of perior calibarion, the impedance is within 5 Ω of perior calibarion. Therefore the verification result should support extended calibarion.

■ 450 MHz Dipole Head tissue

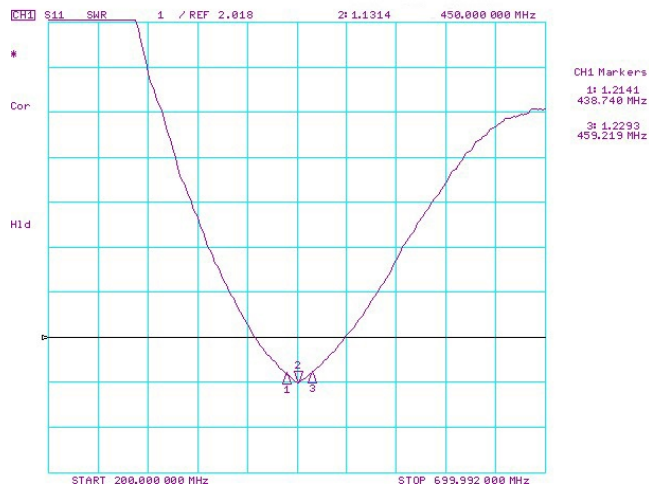
Return-Loss



Impedance

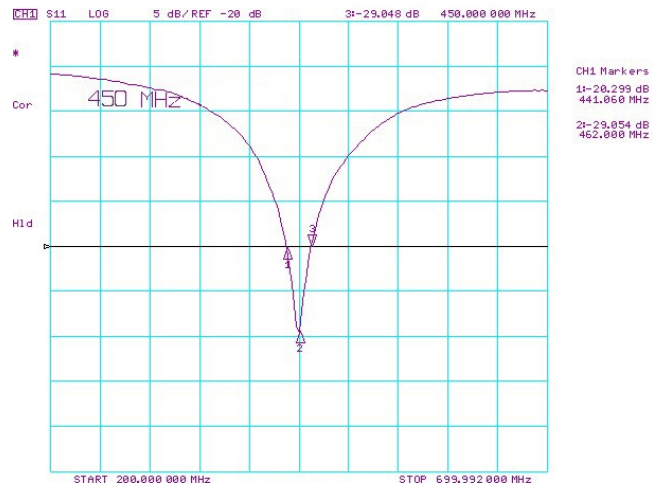


SWR

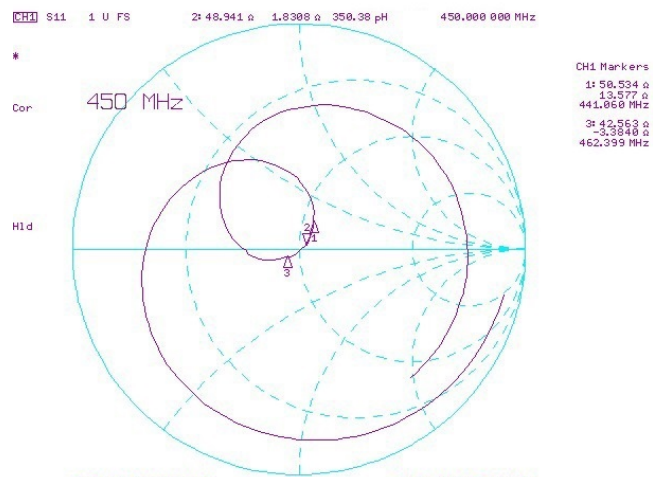


■ 450 MHz Dipole Body tissue

Return-Loss



Impedance



SWR

