

<Justification of the extended calibration>

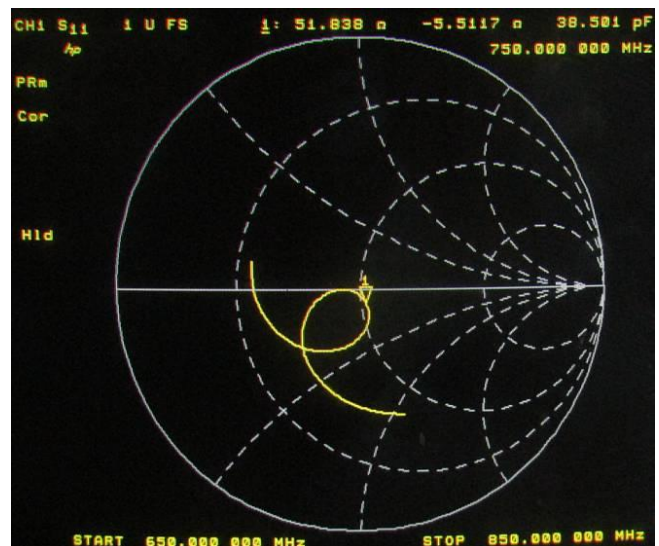
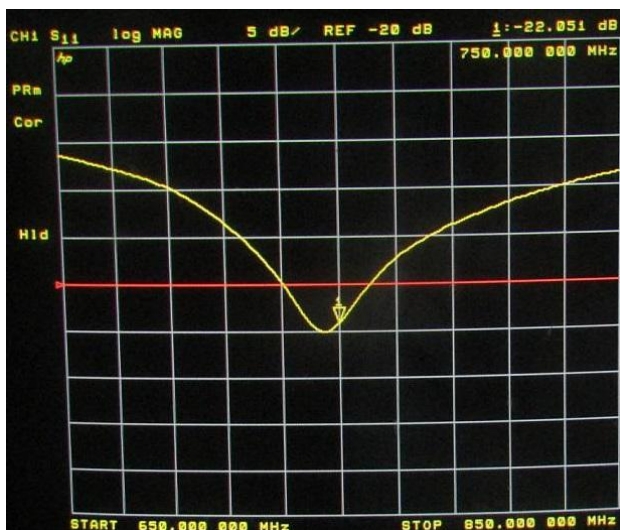
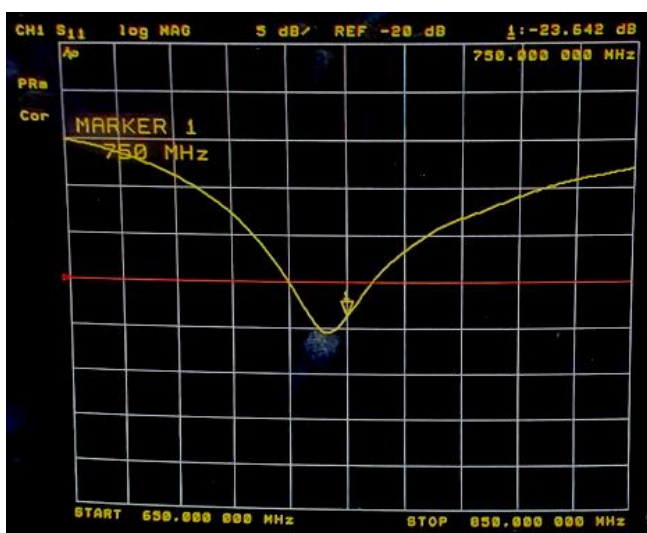
If dipoles are verified in return loss ($<-20\text{dB}$, within 20% of prior calibration for below 3GHz, and $<-8\text{dB}$, within 20% of prior calibration for 5GHz to 6GHz), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

<Head 750MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-23.80	-	56.4	-	Mar. 01, 2021
-23.642	0.66	56.998	0.598	Feb. 28, 2022
-22.051	7.35	51.838	4.562	Feb. 18, 2023

The return loss is $<-20\text{dB}$, 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

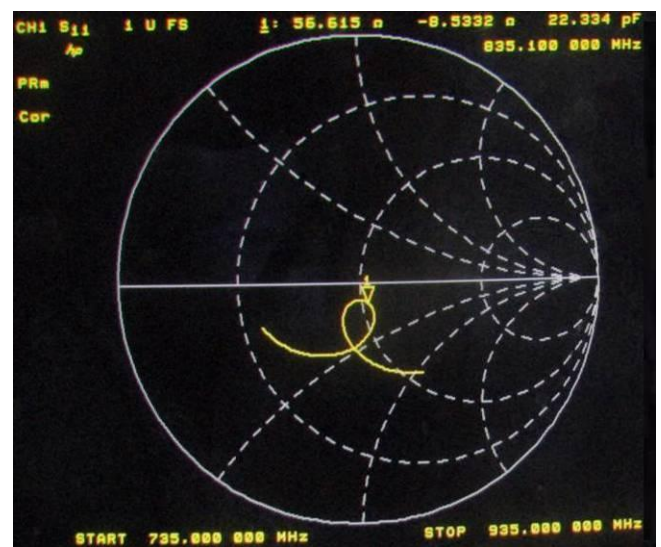
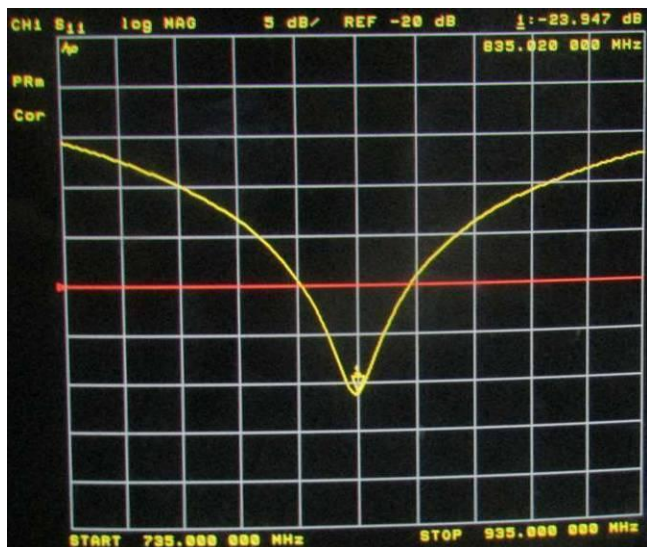
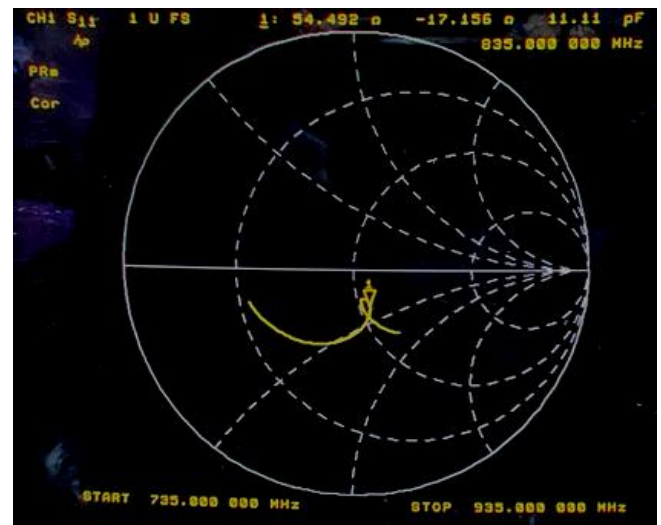
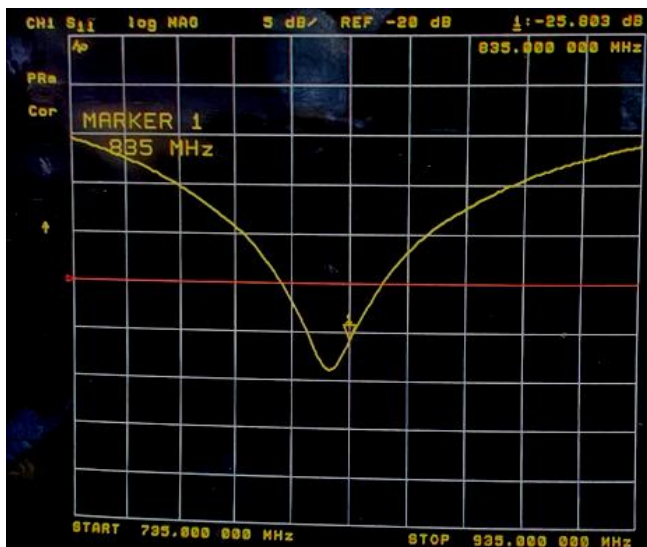


<Head 835MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-25.44	-	54.40	-	Mar. 01, 2021
-25.803	1.43	54.492	0.092	Feb. 28, 2022
-23.947	5.87	56.615	2.215	Feb. 18, 2023

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

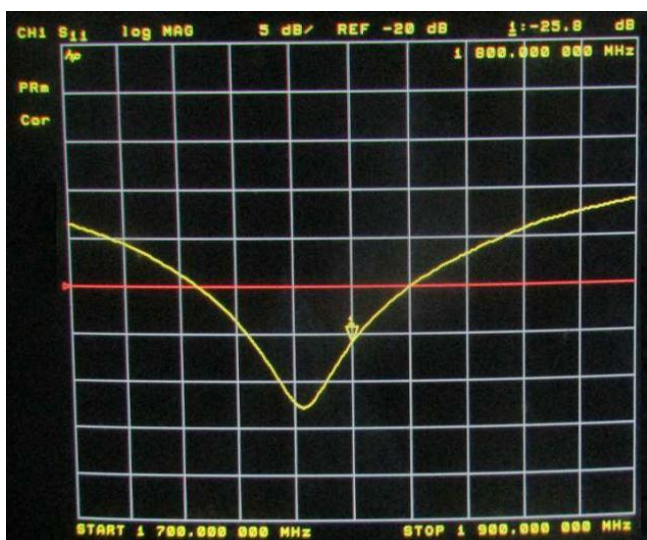
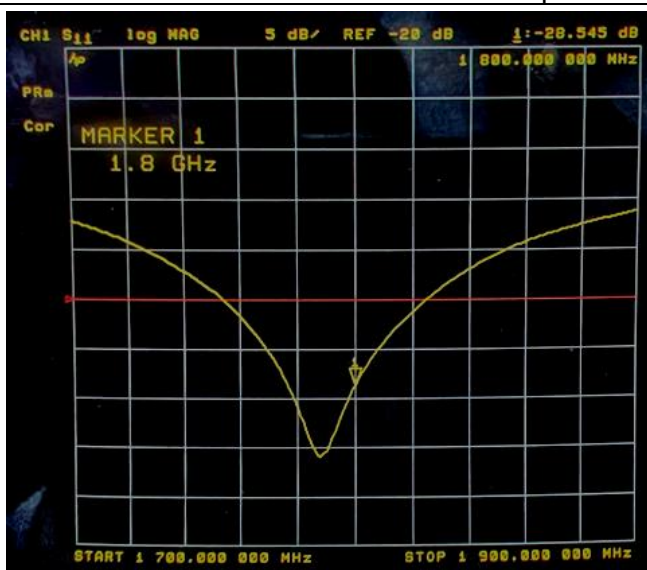


<Head 1800MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-28.85	-	47.90	-	Mar. 01, 2021
-28.545	1.06	47.809	0.091	Feb. 28, 2022
-25.8	10.57	45.156	2.744	Feb. 18, 2023

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

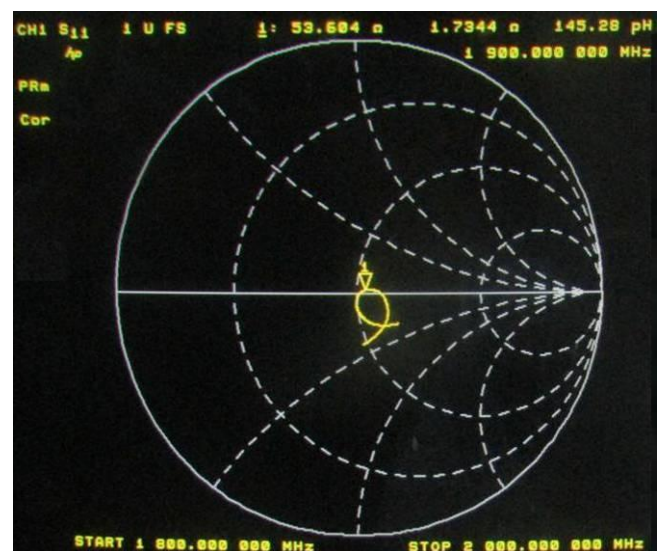
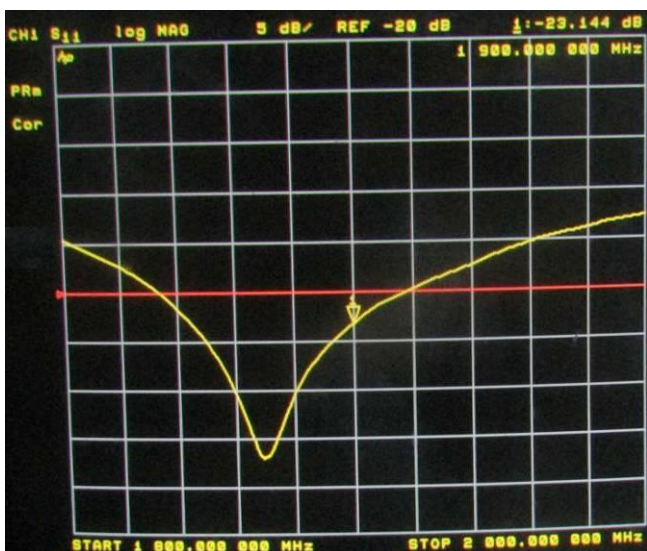


<Head 1900MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-24.79	-	50.80	-	Mar. 01, 2021
-24.518	1.10	50.516	0.284	Feb. 28, 2022
-23.144	6.64	53.604	2.804	Feb. 20, 2023

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

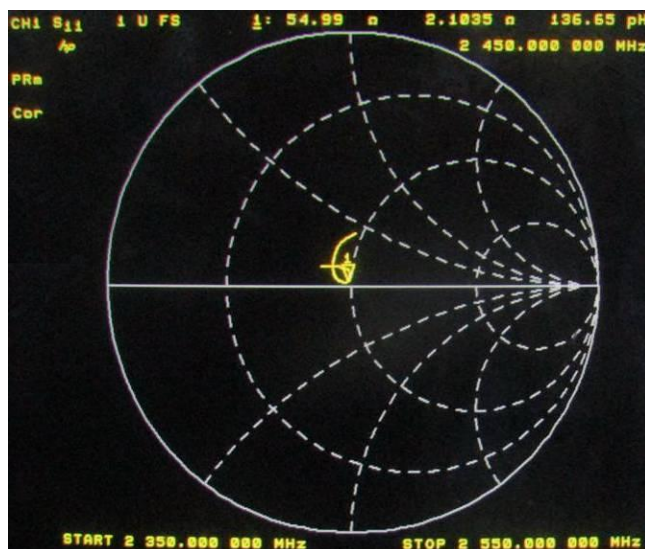
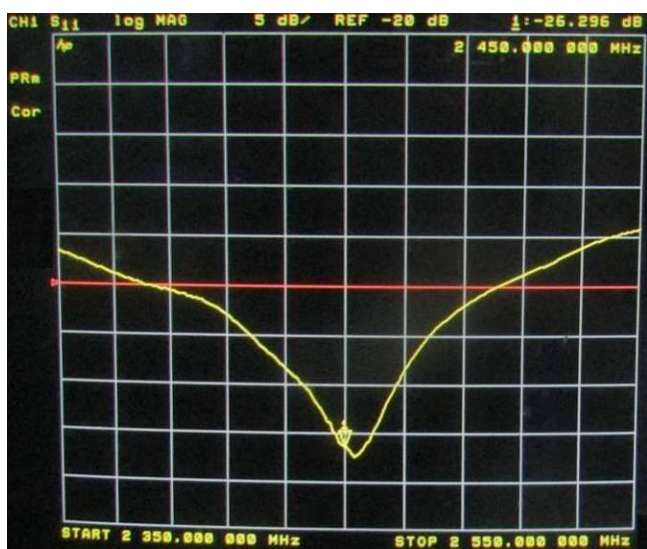
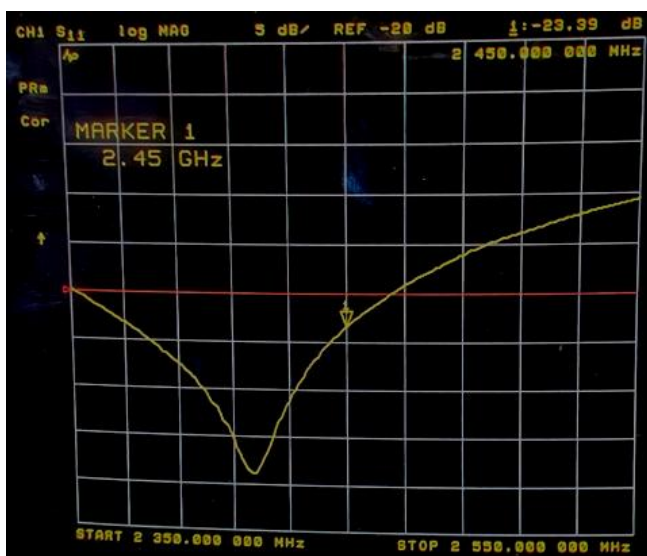


<Head 2450MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-23.18	-	56.30	-	Mar. 01, 2021
-23.39	0.91	56.342	0.042	Feb. 28, 2022
-26.296	13.44	54.99	1.310	Feb. 20, 2023

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

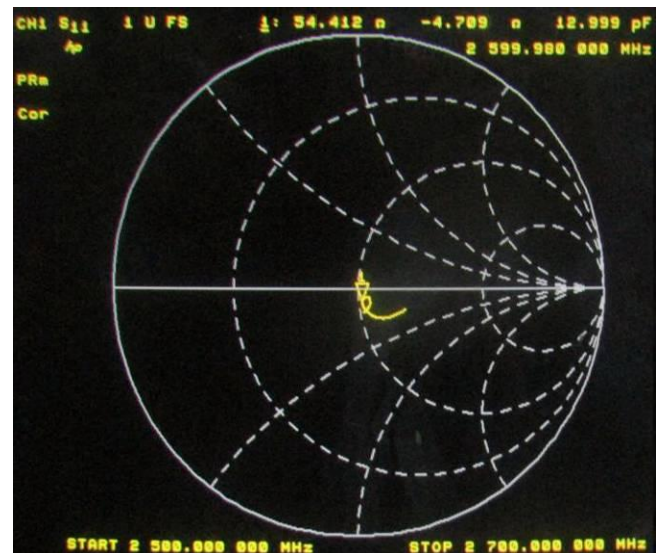
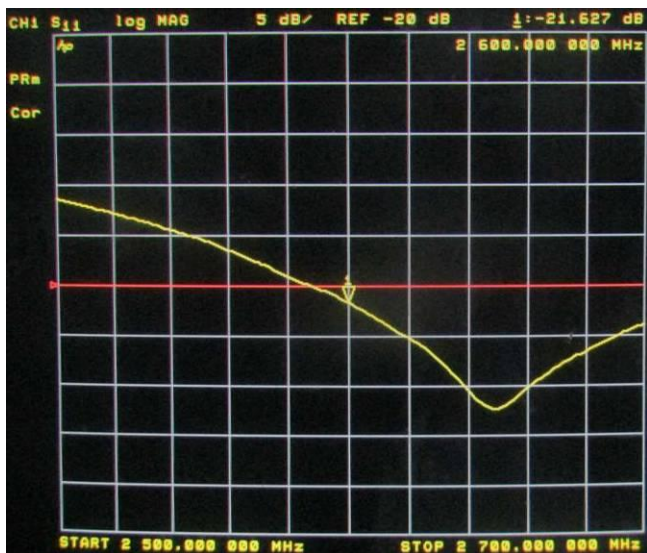
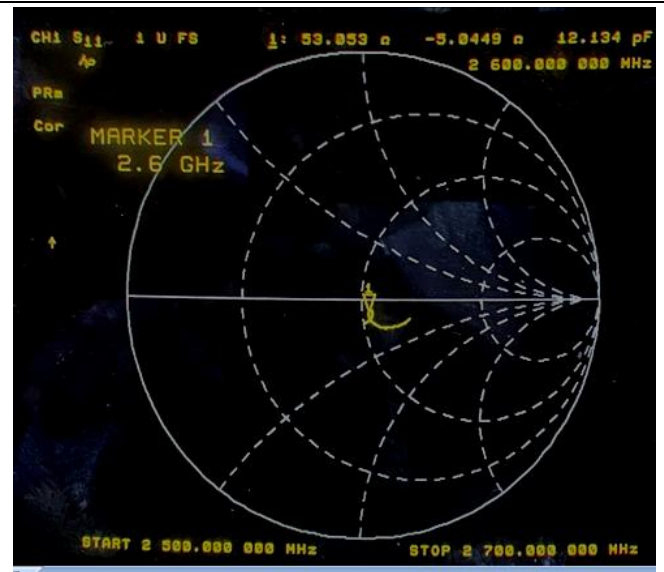
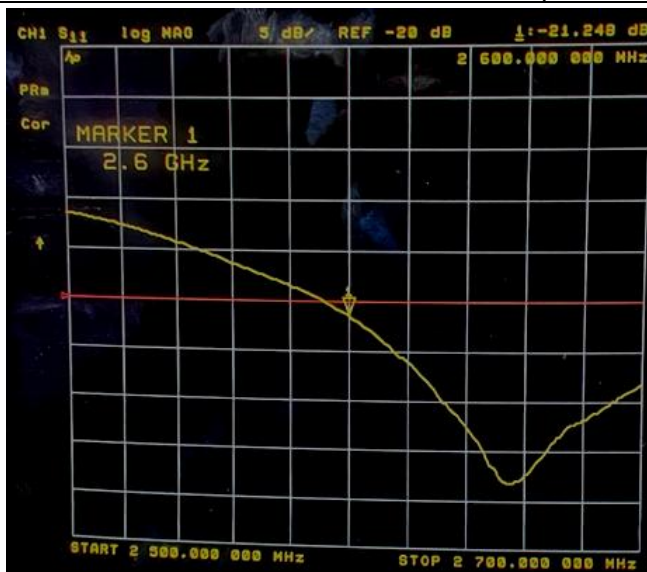


<Head 2600MHz>

Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-21.15	-	52.70	-	Mar. 01, 2021
-21.248	0.46	53.053	0.353	Feb. 28, 2022
-21.627	2.25	54.412	1.712	Feb. 20, 2023

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



END