

## TSA-Antennen *Tuned Sleeve Antennas*



**Beschreibung:**

Die TSA-Antennen sind abgestimmte Halbwellendipole, deren Dipolachse in Verlängerung der koaxialen Speiseleitung liegt. Gelegentlich werden diese auch als Sperrtopf-Antenne bezeichnet. Zur Unterdrückung von unerwünschten Mantelströmen dient der Sperrtopf, zusätzlich kommen Ferrithülsen zur Vergrößerung der Bandbreite und zur Verbesserung der Reproduzierbarkeit zum Einsatz. Hauptanwendungen der TSA-Antennen sind Immunitätsprüfungen im VHF/UHF-Bereich bei Kraftfahrzeugen nach ISO 11542-9 bzw. herstellerspezifischen Normen (z.B. Toyota TSC 7006G).

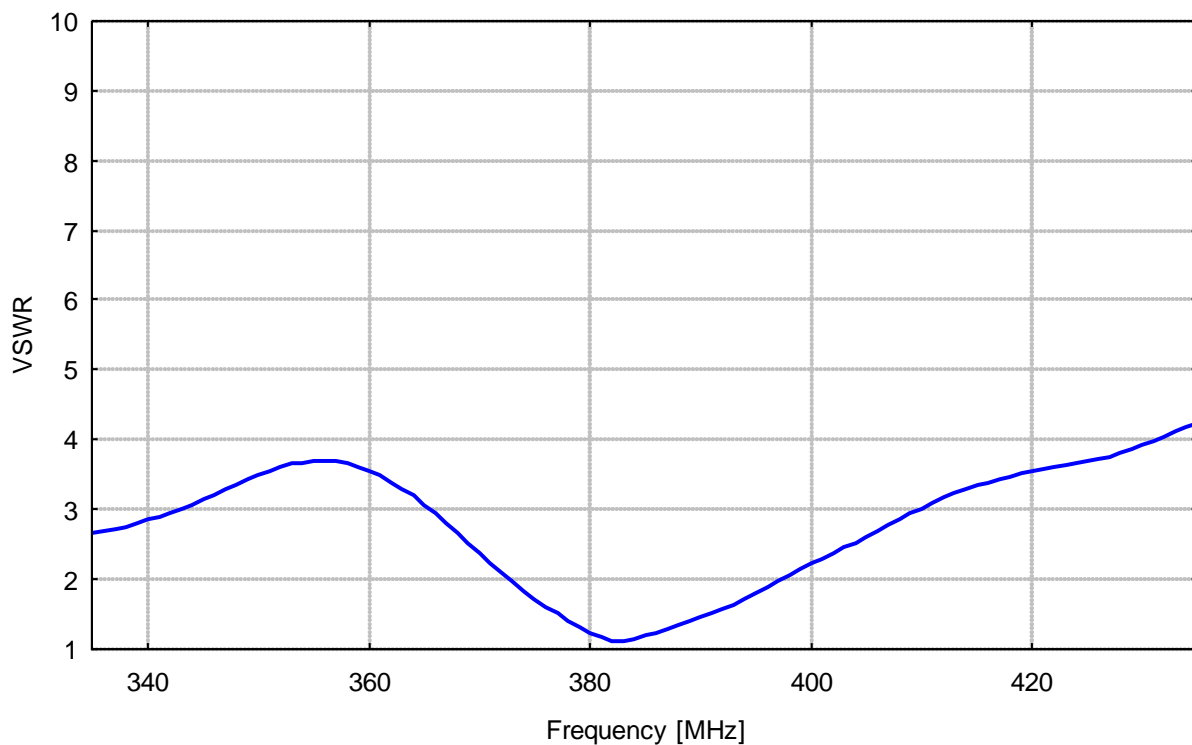
**Description:**

*Tuned sleeve antennas are tuned half wave dipoles, with their axis aligned as a straight extension of the coaxial feed cable. Selected ferrites are used to suppress unwanted sheath currents and to increase the usable bandwidth as well as the degree of repeatability. Main applications of the TSA-antennas are immunity testing against handheld transmitters in the automotive industry within the VHF/UHF range according to ISO 11542-9 respectively manufacturer specific standards (e.g. Toyota TSC 7006G).*

<b>Technische Daten:</b>		<b>Specifications:</b>
Frequenzbereich, nominell:	385 MHz ... 2 GHz	<i>Nominal Frequency Range:</i>
Impedanz, nominell:	50 Ω	<i>Nominal impedance:</i>
Max. Eingangsleistung:	20 W cont. 50 W short time	<i>Max. Input Power:</i>
Anschlussart:	N	<i>Connector:</i>
Länge x Durchmesser:	365 - 640 mm x 25 mm	<i>Length x Diameter</i>
Gewicht:	300 - 500 g	<i>Weight:</i>

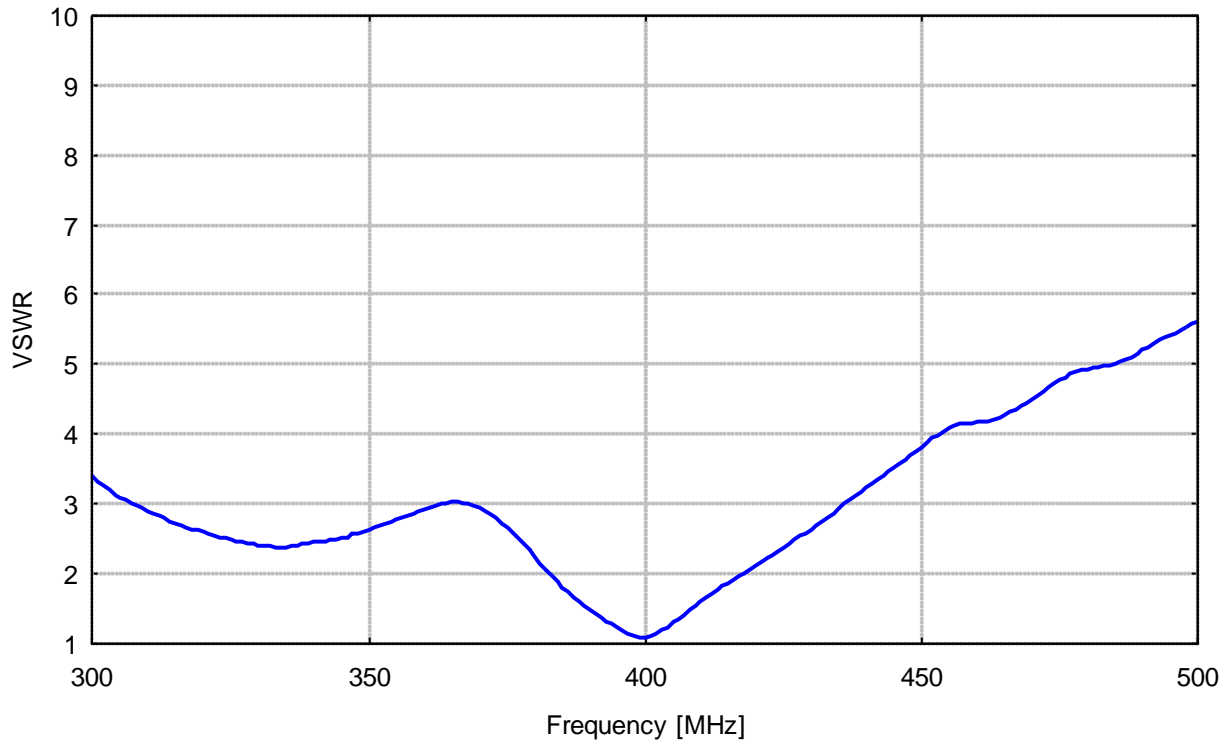
Designation:	Antenna Type	Nominal Frequency	Typ. VSWR	Useable Frequency Range	Standard
TSA 385	Tuned Sleeve antenna	385 MHz	< 2.0 < 1.5	377-393 MHz 380-388 MHz	ISO 11452-9
TSA 400	Tuned Sleeve antenna	400 MHz	< 2.0 < 1.5	388-408 MHz 393-404 MHz	ISO 11452-9
TSA 415	Tuned Sleeve antenna	415 MHz	< 2.0 < 1.5	407-423 MHz 410-420 MHz	ISO 11452-9
TSA 430	Tuned Sleeve antenna	430 MHz	< 2.0 < 1.5	420-440 MHz 425-435 MHz	Toyota TSC 7006G and ISO 11452-9
TSA 455	Tuned Sleeve antenna	455 MHz	< 2.0 < 1.5	445-465 MHz 450-460 MHz	ISO 11452-9
TSA 835	Tuned Sleeve antenna	835 MHz	< 1.5 < 2.0	802-888 MHz 815-855 MHz	Toyota TSC 7006G
TSA 880	Tuned Sleeve antenna	880 MHz	< 2.0 < 1.5	833-956 MHz 851-927 MHz	ISO 11452-9
TSA 900	Tuned Sleeve antenna	900 MHz	< 2.0 < 1.5	862-952 MHz 883-918 MHz	Toyota TSC 7006G
TSA 1270	Tuned Sleeve antenna	1.27 GHz	< 2.0 < 1.5	956-1420 MHz 1010-1372 MHz	Toyota TSC 7006G
TSA 1440	Tuned Sleeve antenna	1.44 GHz	< 2.0 < 1.5	1241-1585 MHz 1380-1428 MHz	Toyota TSC 7006G
TSA 1750	Tuned Sleeve antenna	1.75 GHz	< 2.0 < 1.5	1230-1905 MHz 1292-1846 MHz	ISO 11452-9
TSA 1950	Tuned Sleeve antenna	1.95 GHz	< 2.0 < 1.5	1600-2220 MHz 1700-2130 MHz	Toyota TSC 7006G

TSA 430 typical VSWR

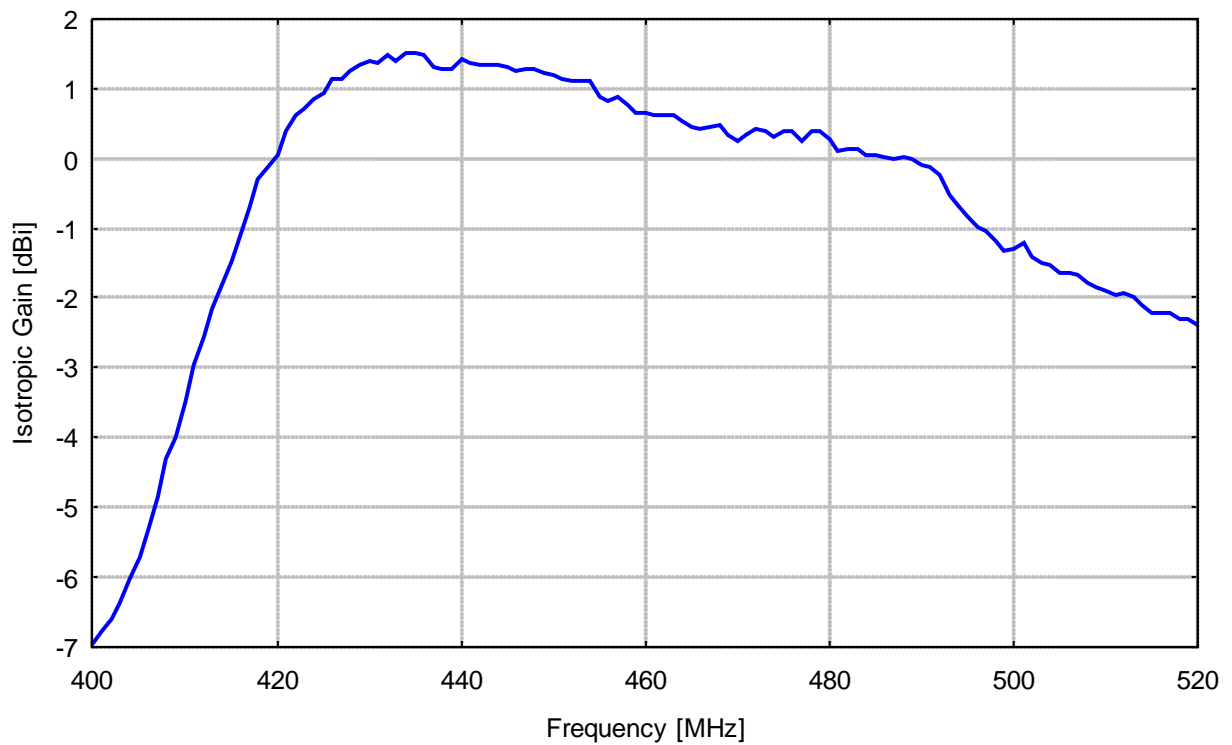




TSA 400 typical VSWR

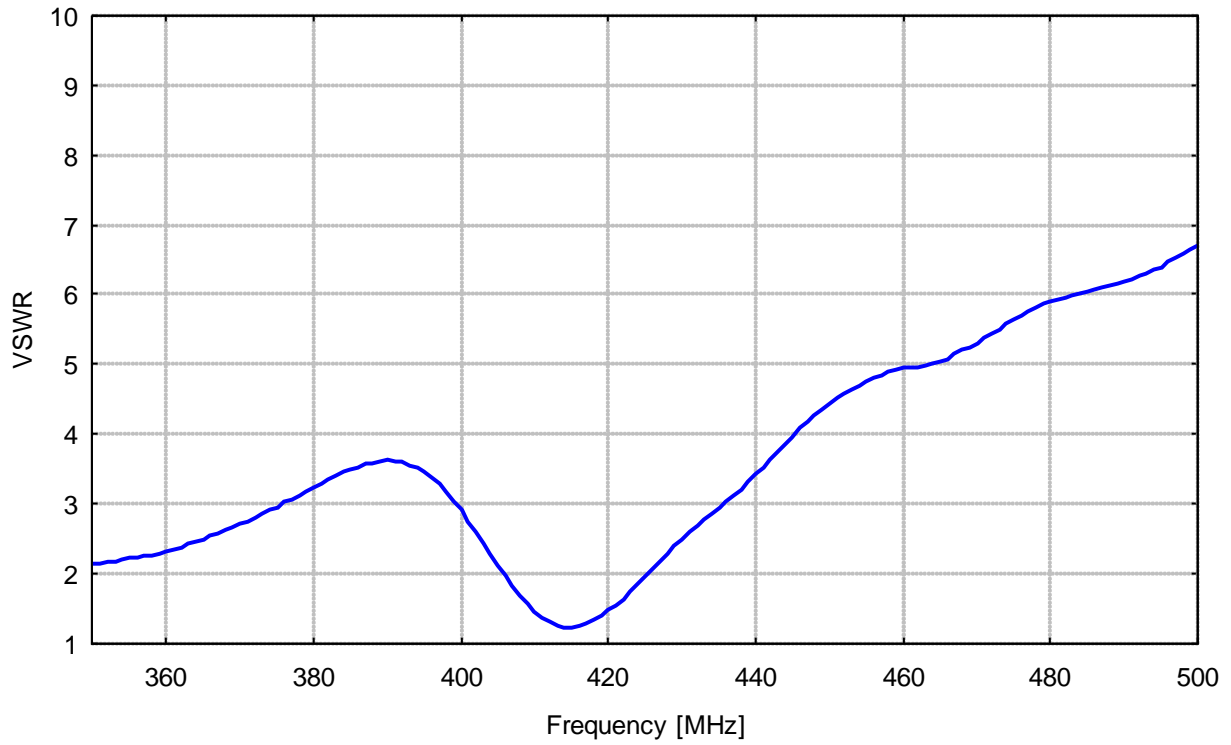


TSA 430

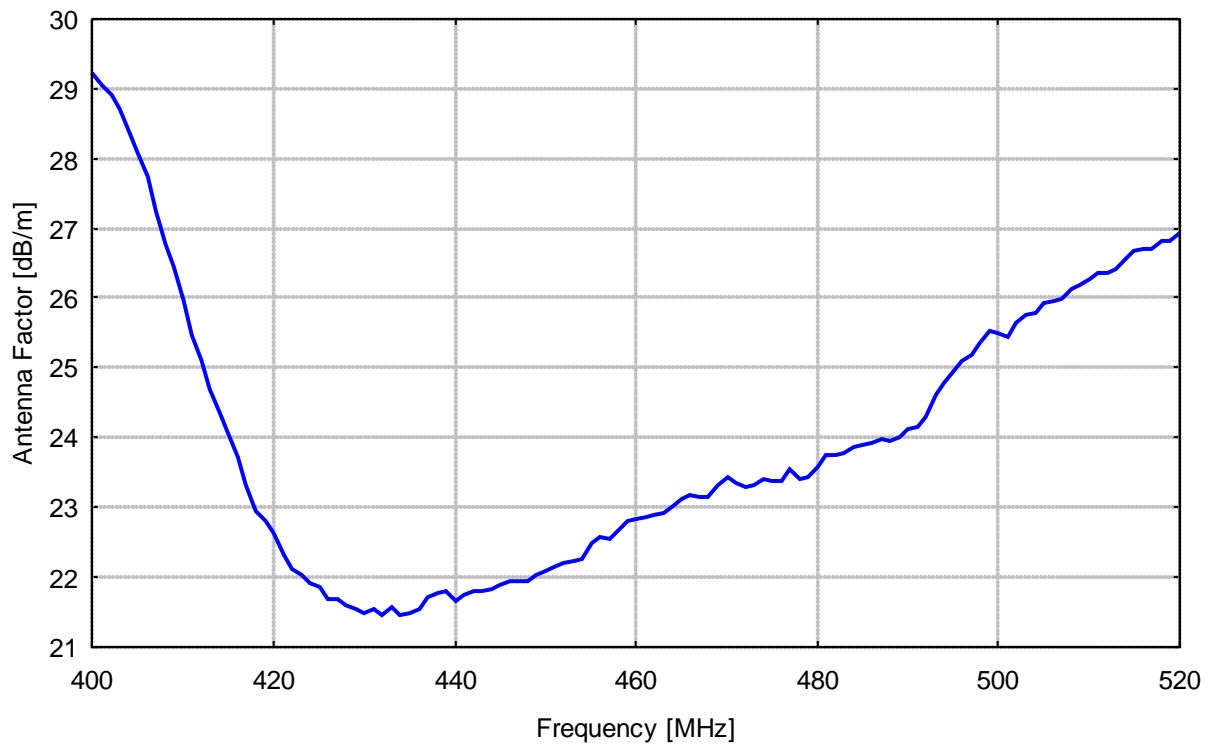




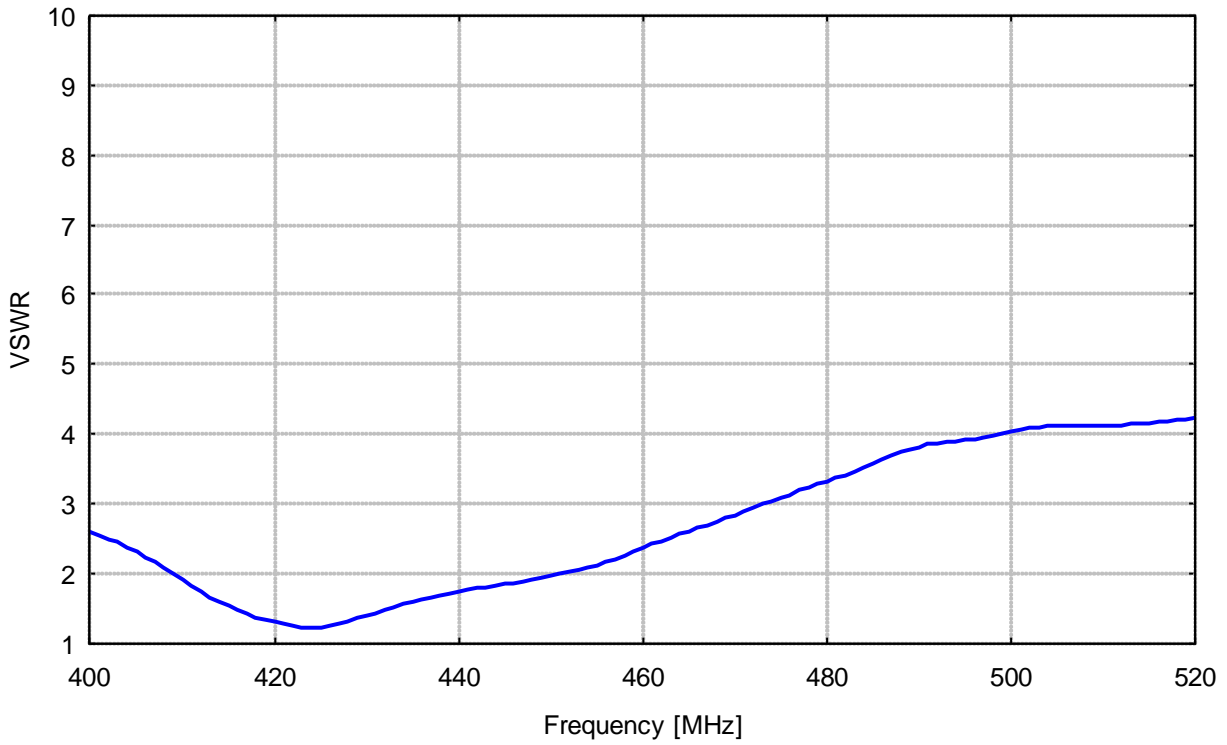
TSA 430 typical VSWR



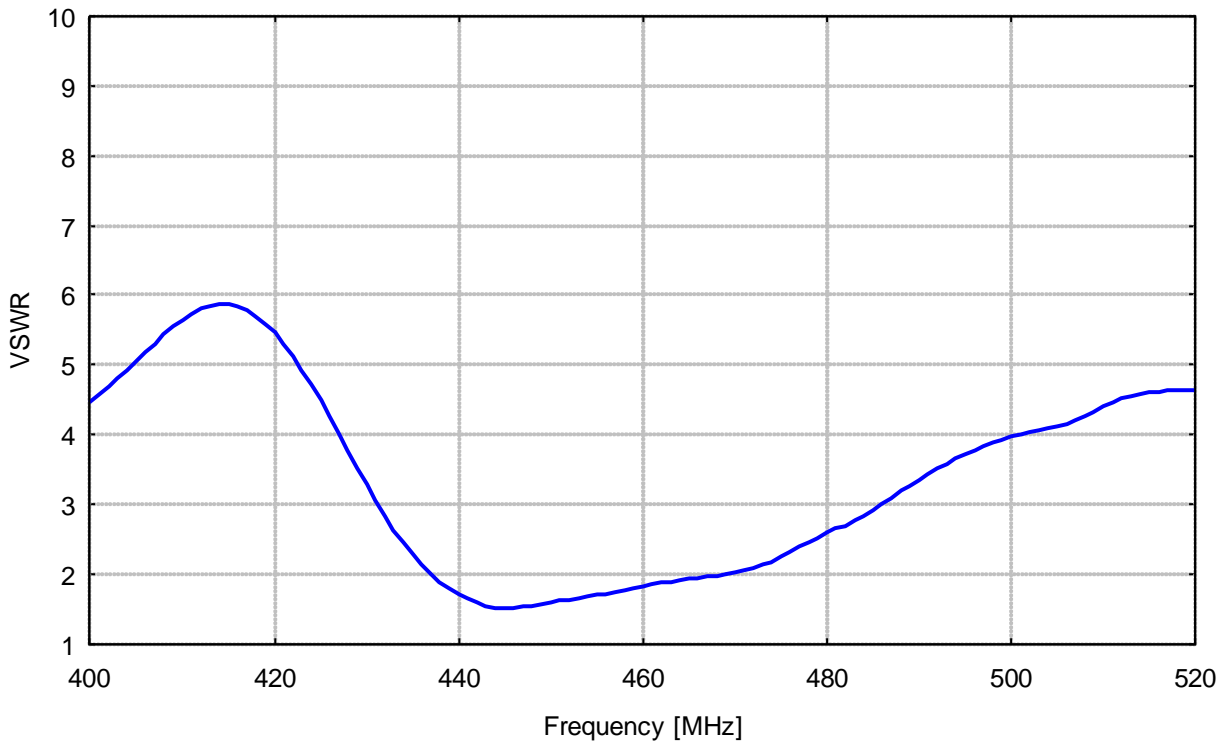
TSA 430



TSA 430 typical VSWR



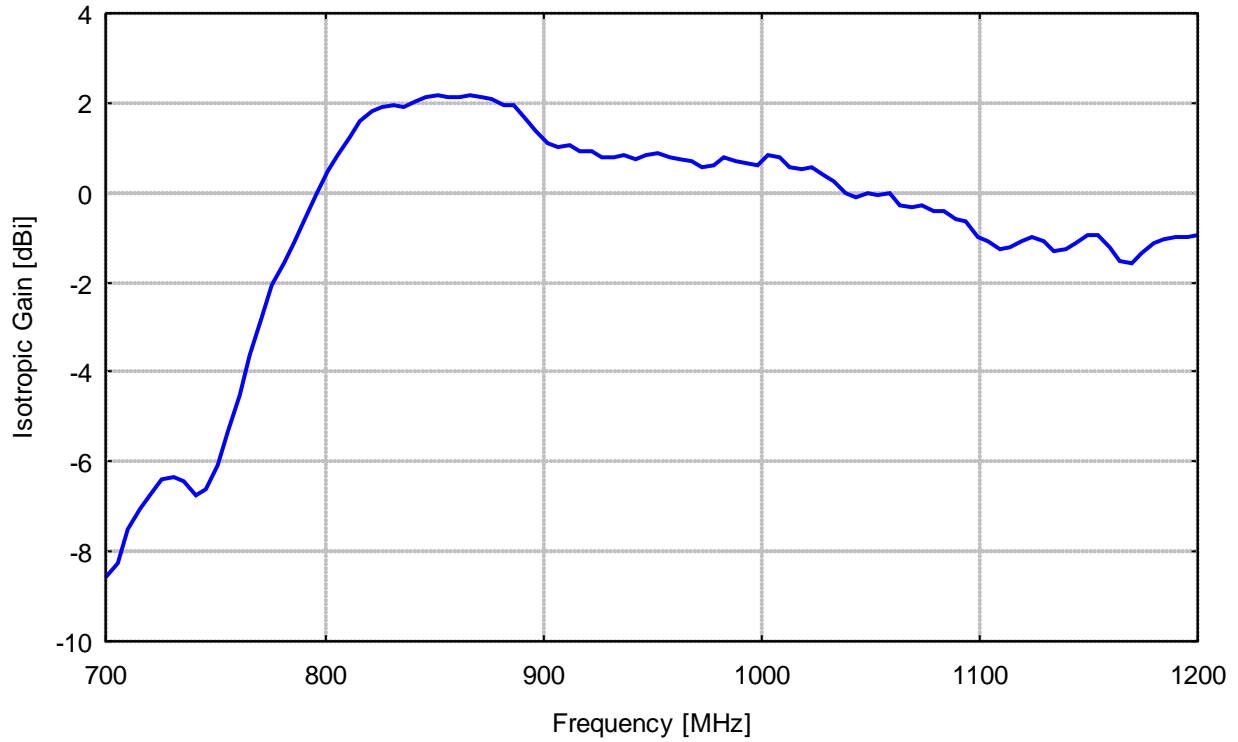
TSA 455 typical VSWR



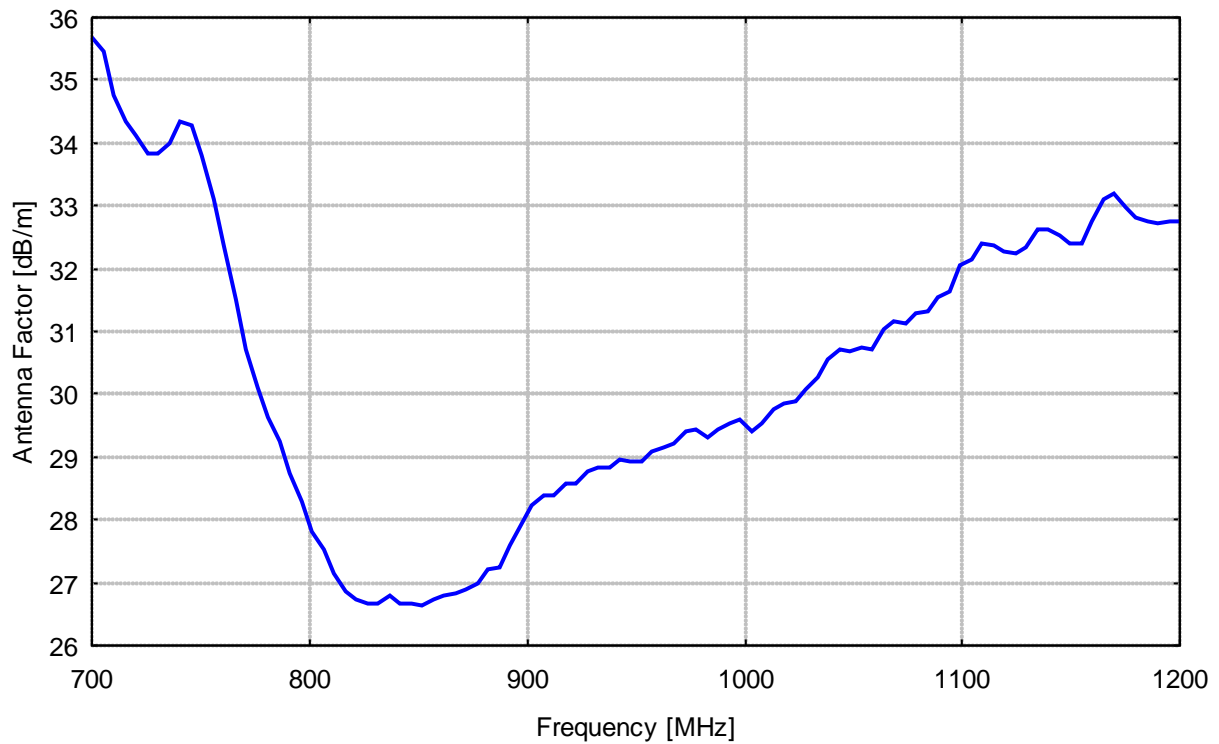


### TSA 835

TSA 835

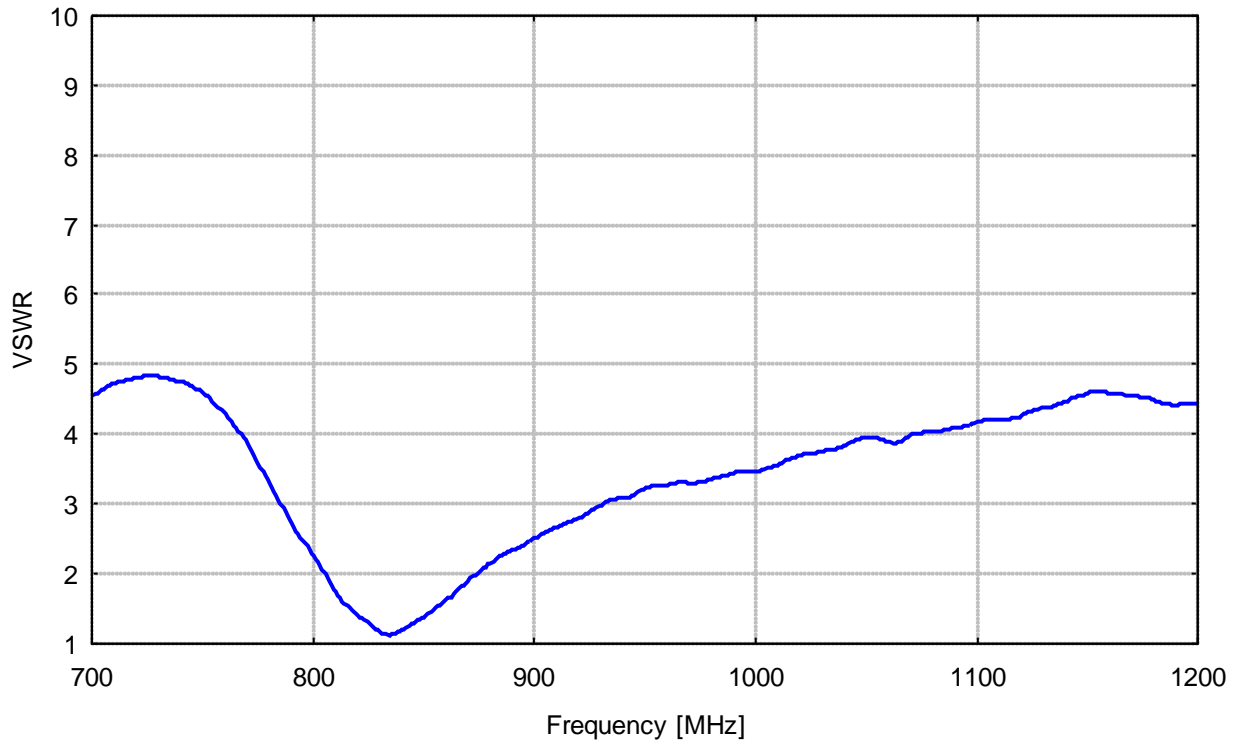


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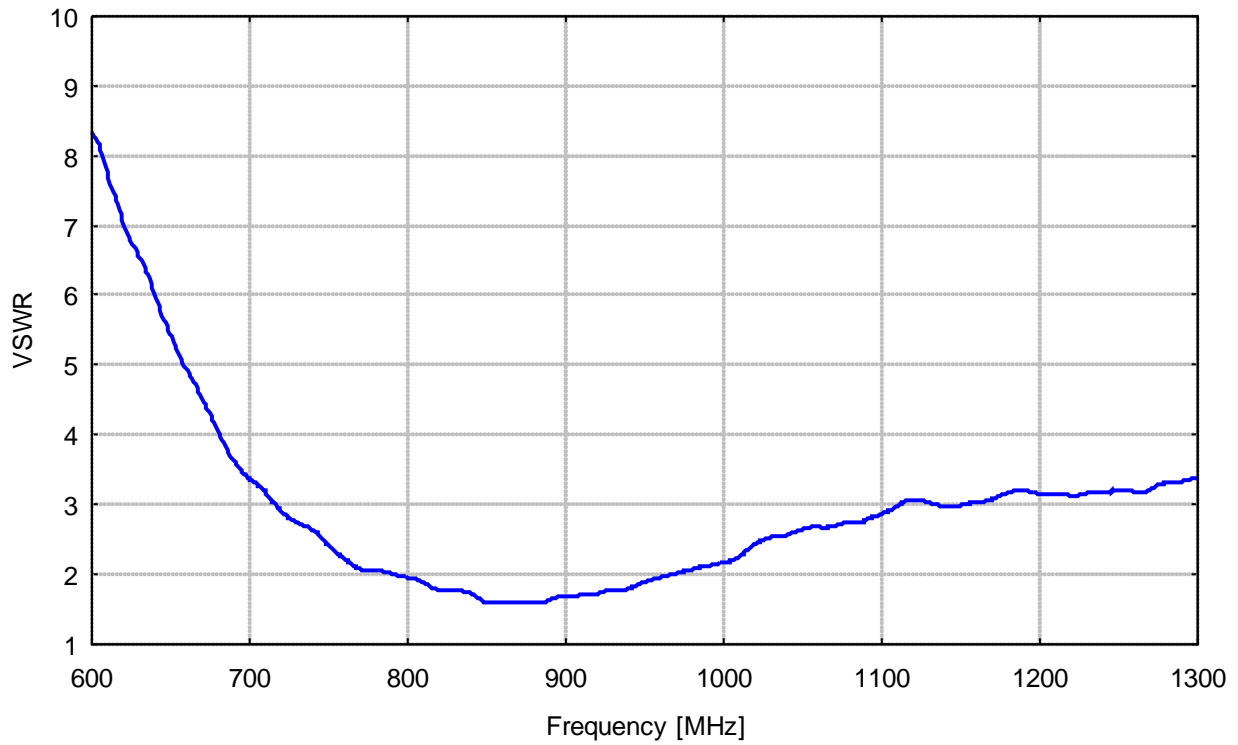




TSA 835 typical VSWR

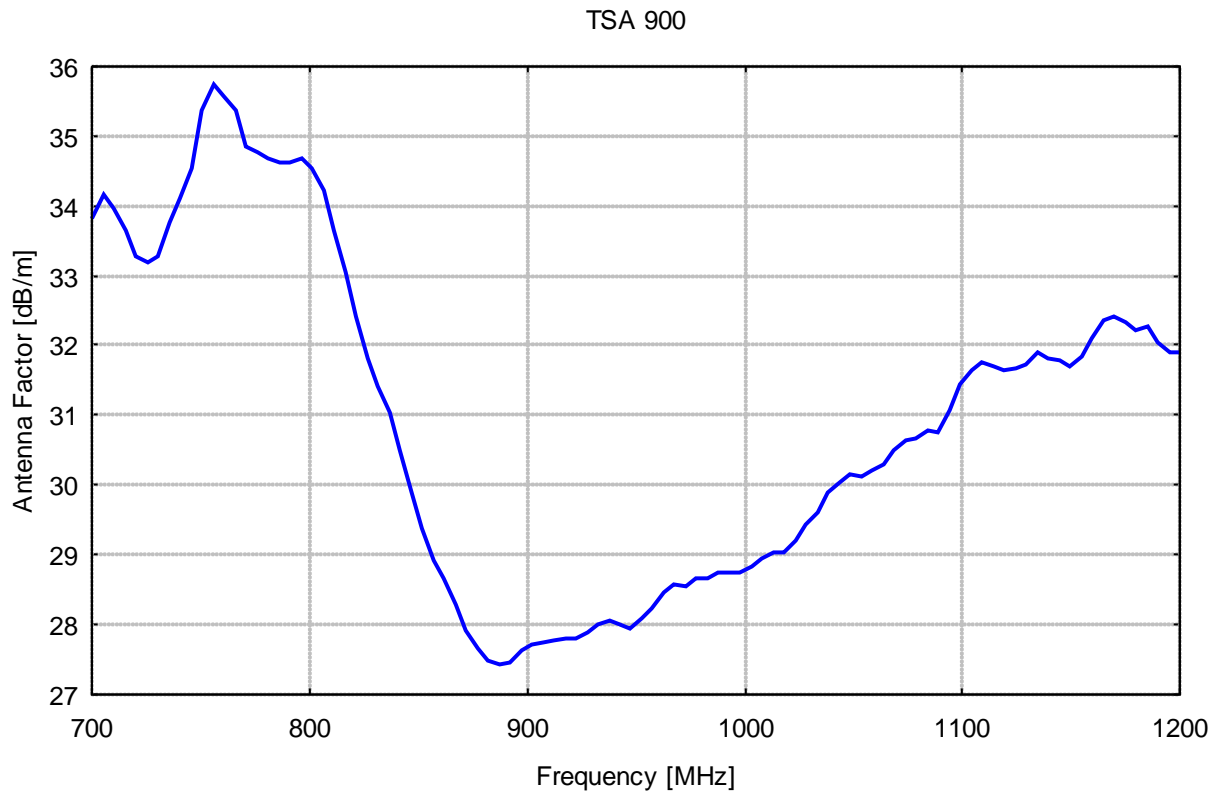
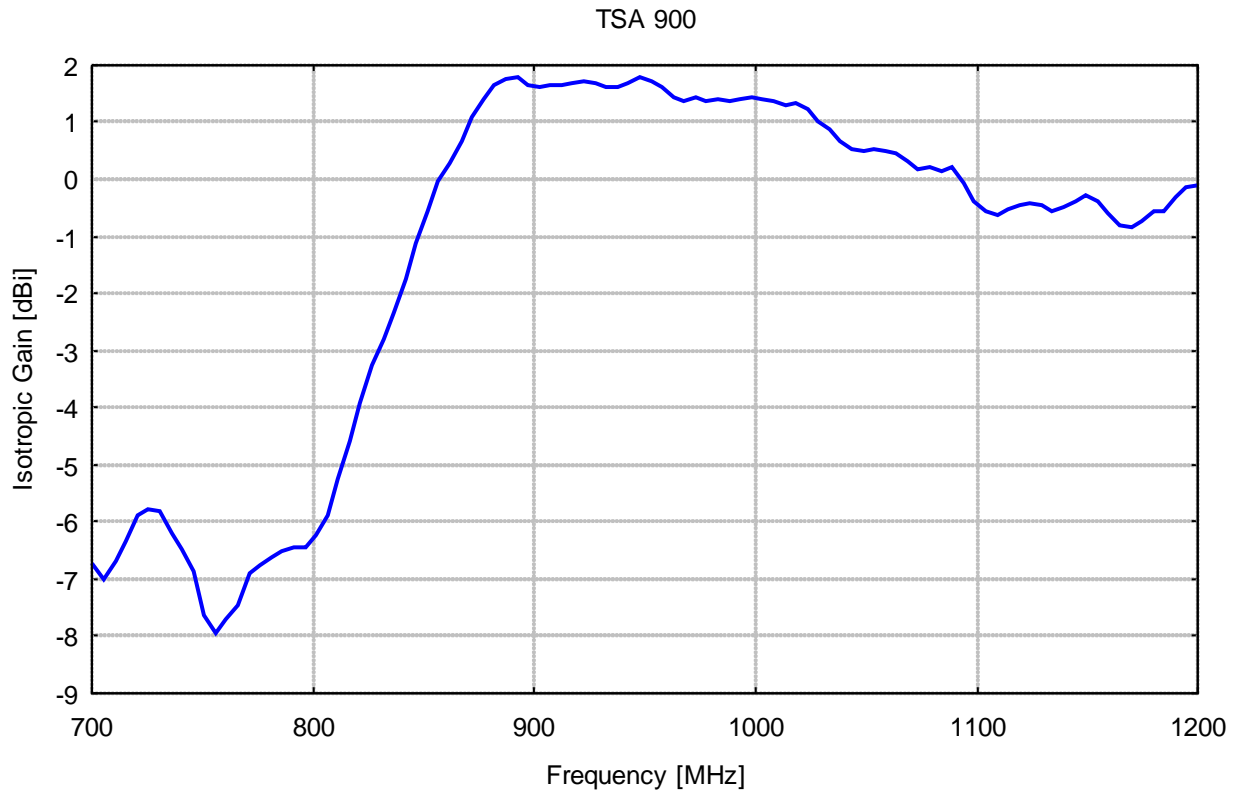


TSA 880 typical VSWR



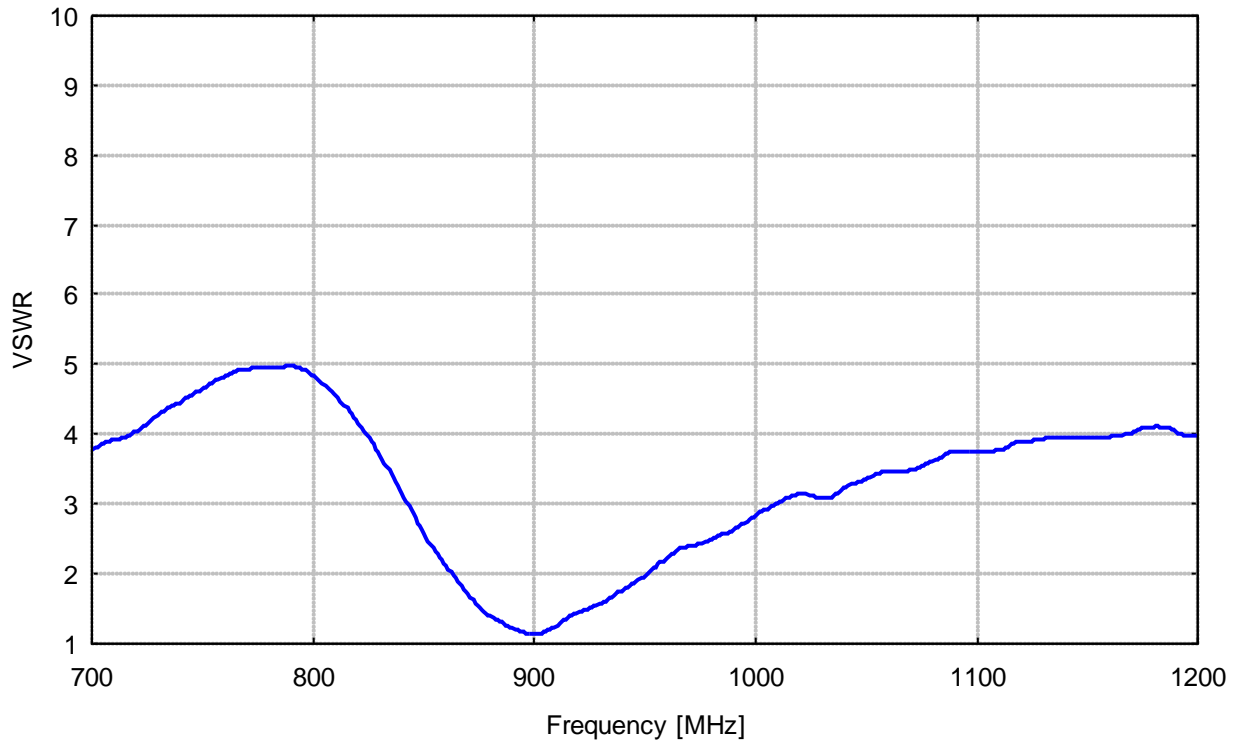


**TSA 900**



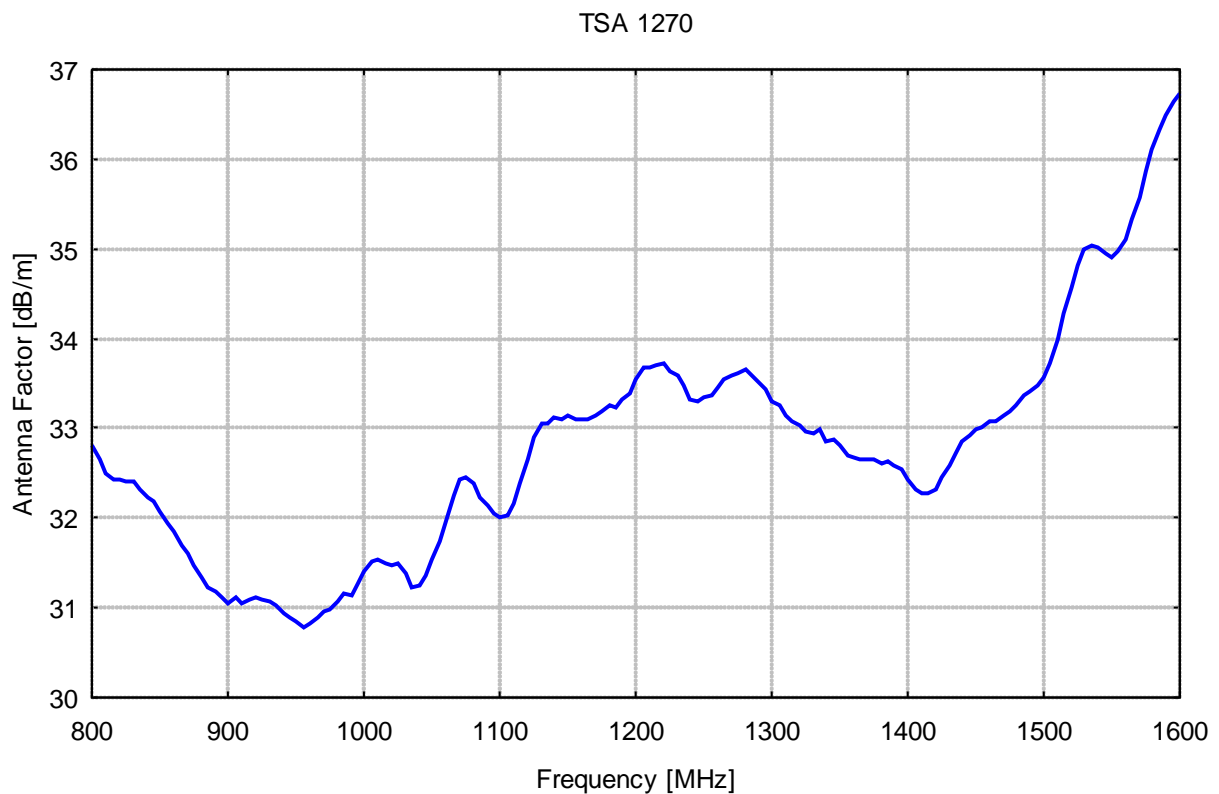
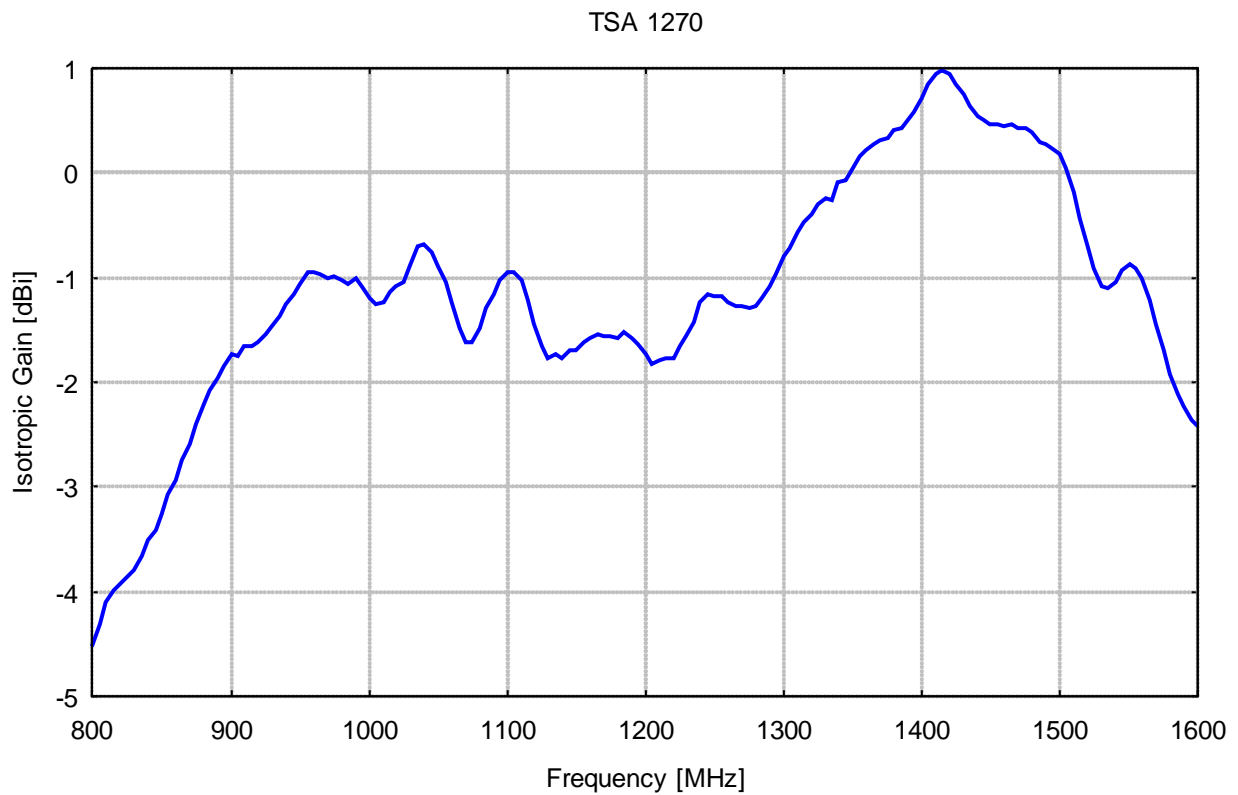


TSA 900 typical VSWR

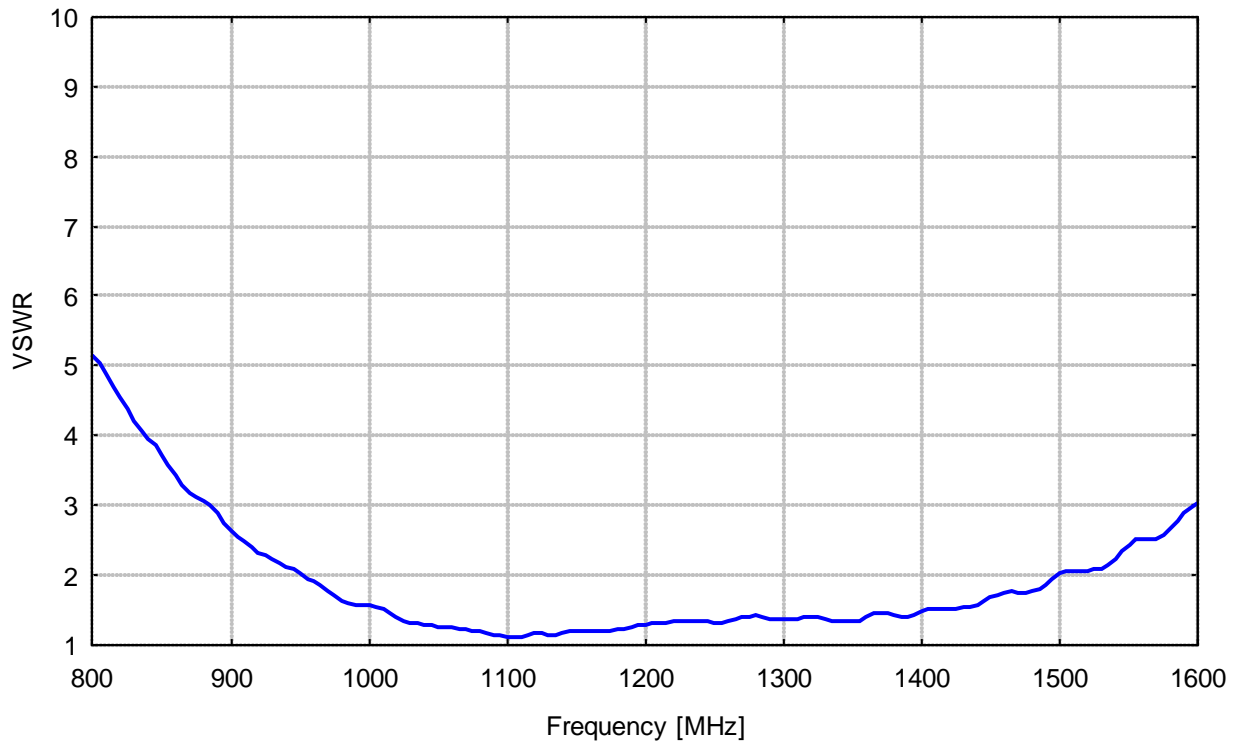




**TSA 1270**



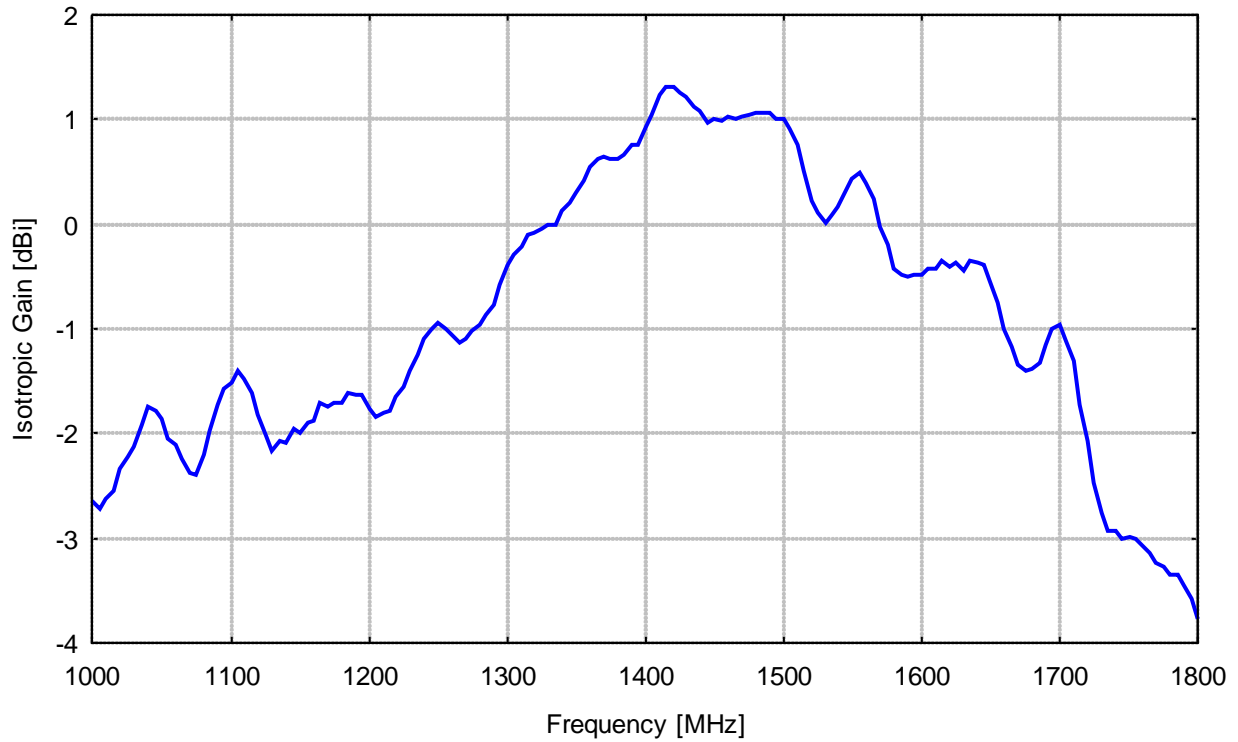
TSA 1270 typical VSWR



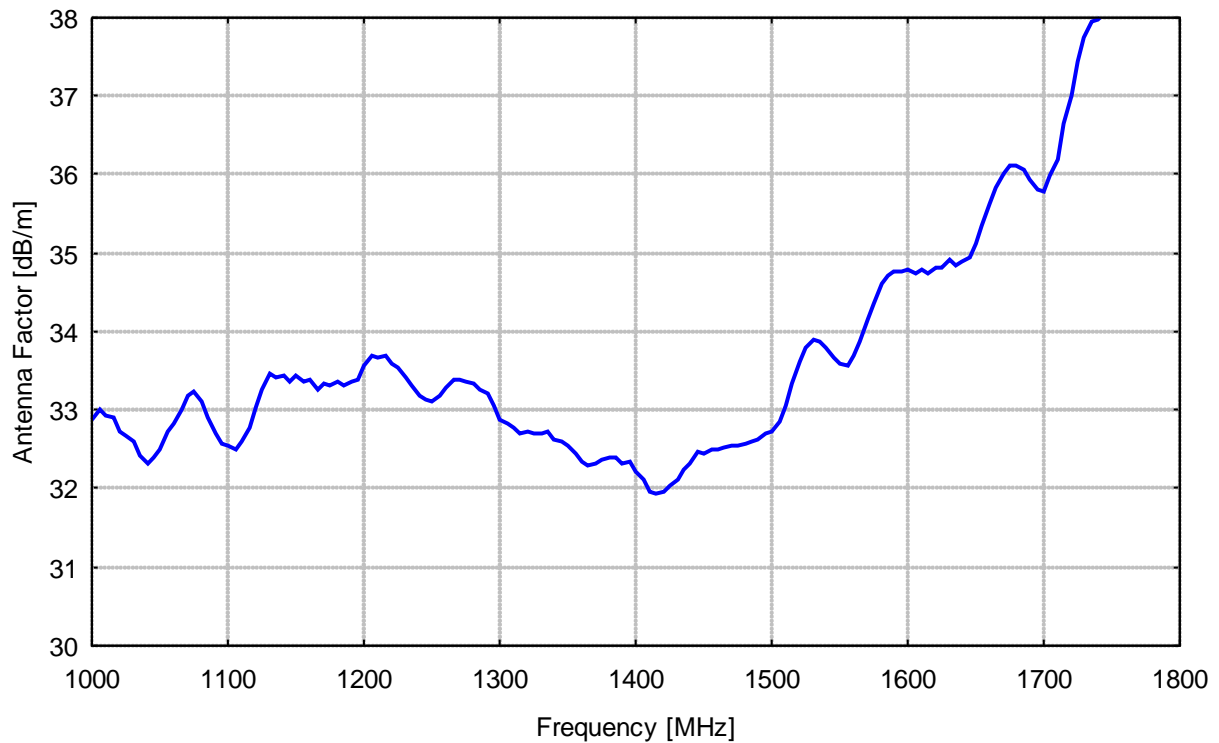


**TSA 1440**

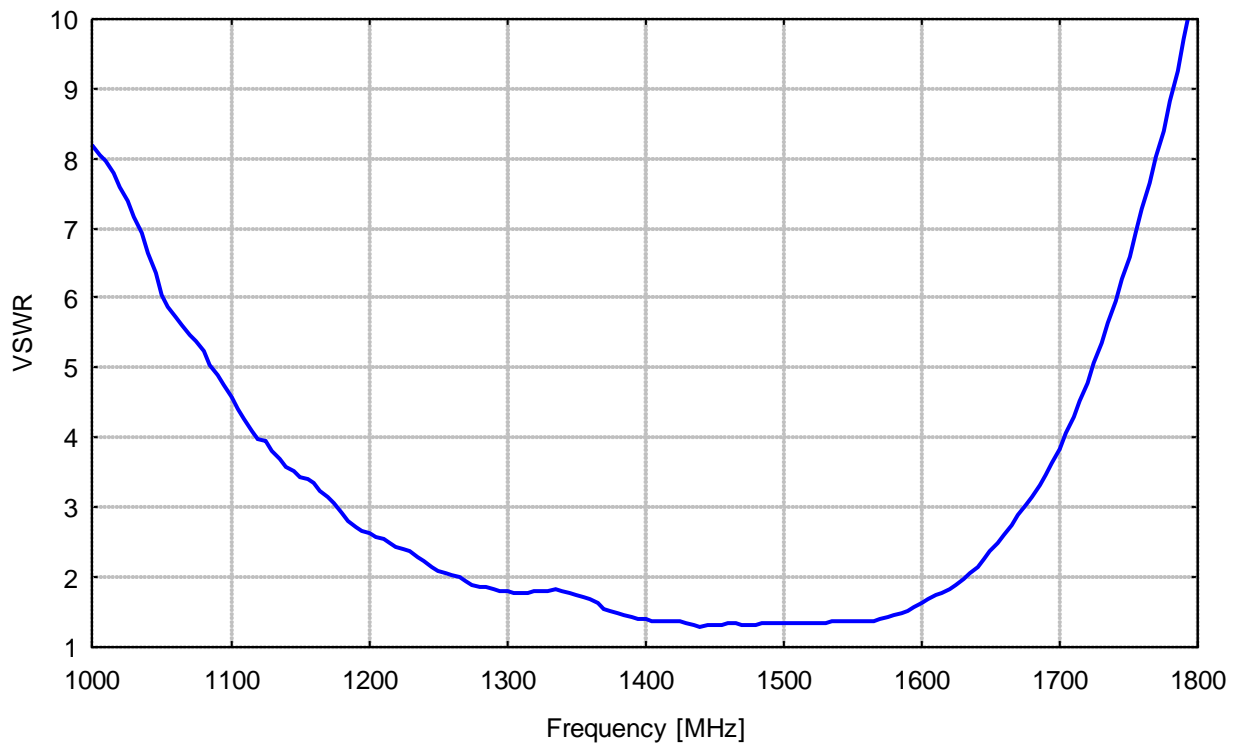
TSA 1440



TSA 1440



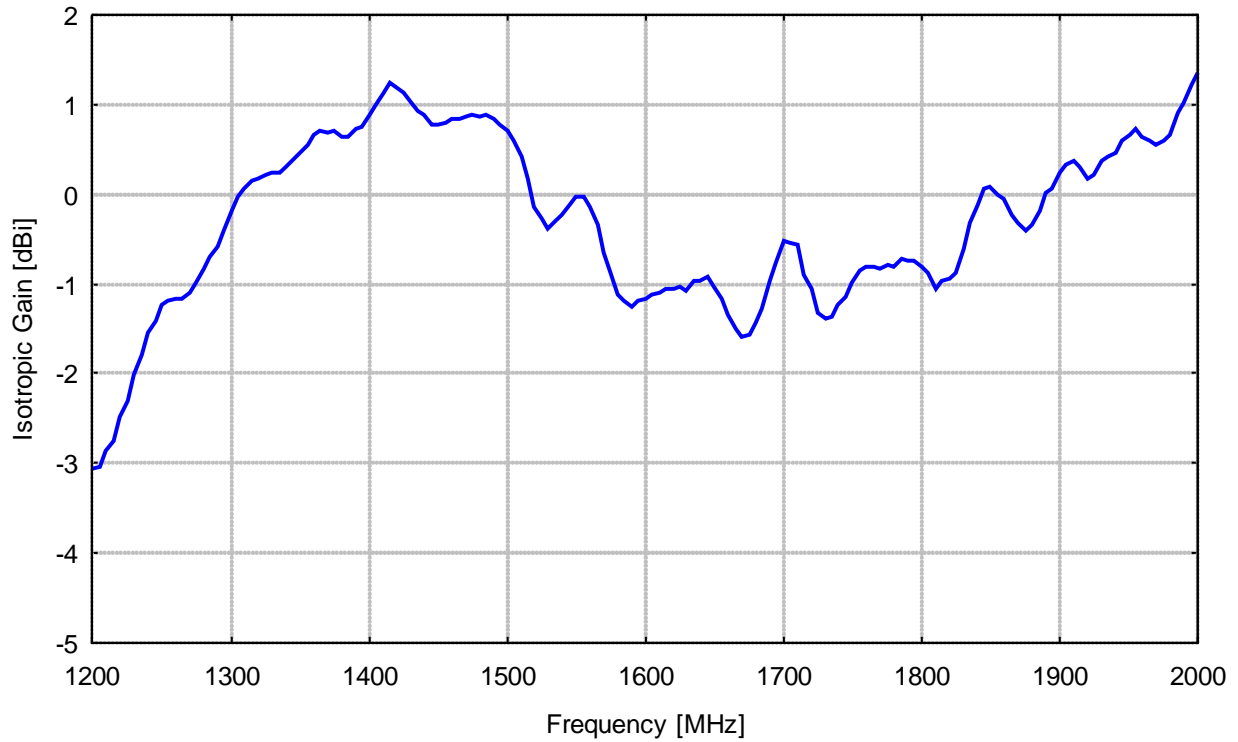
TSA 1440 typical VSWR



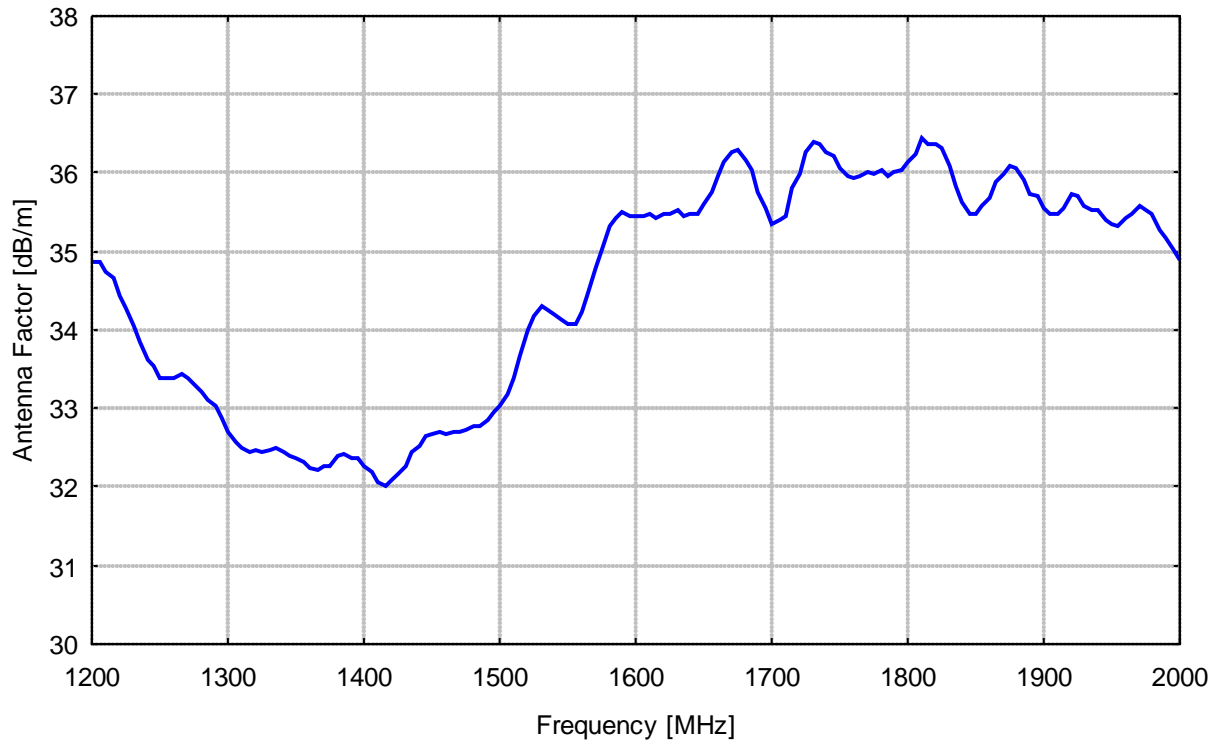


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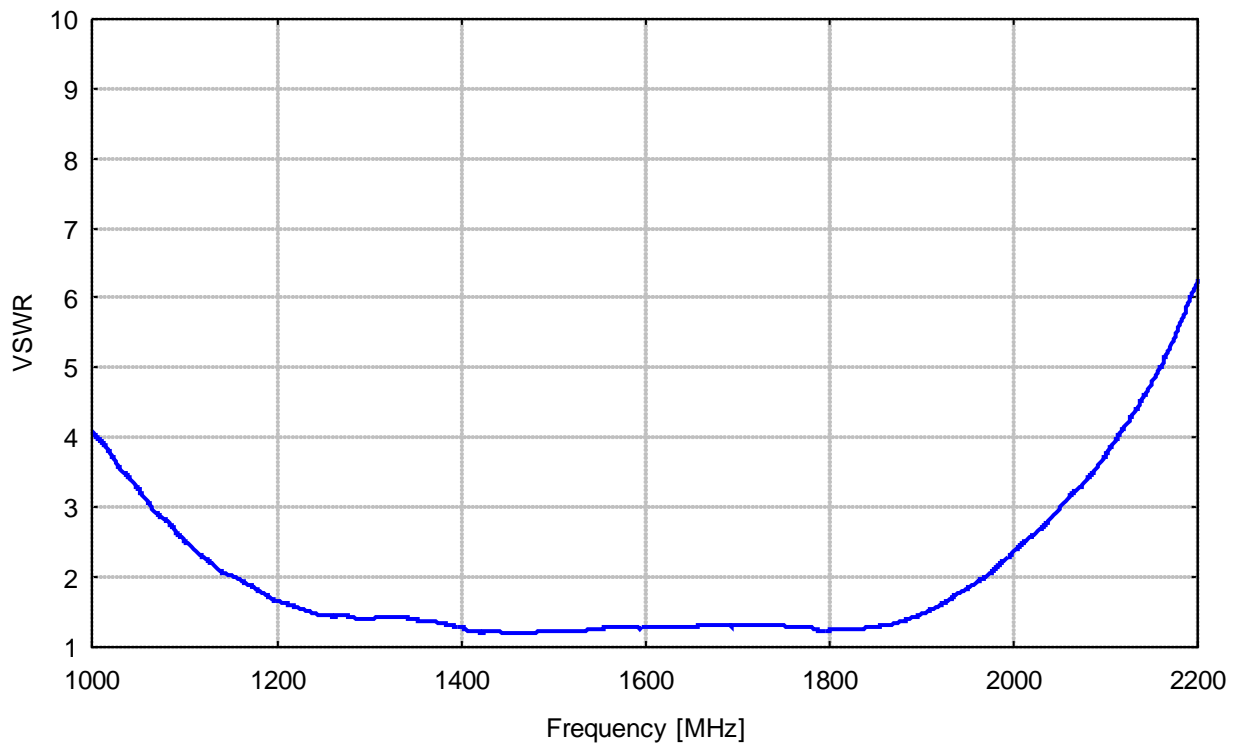
TSA 1750



TSA 1750



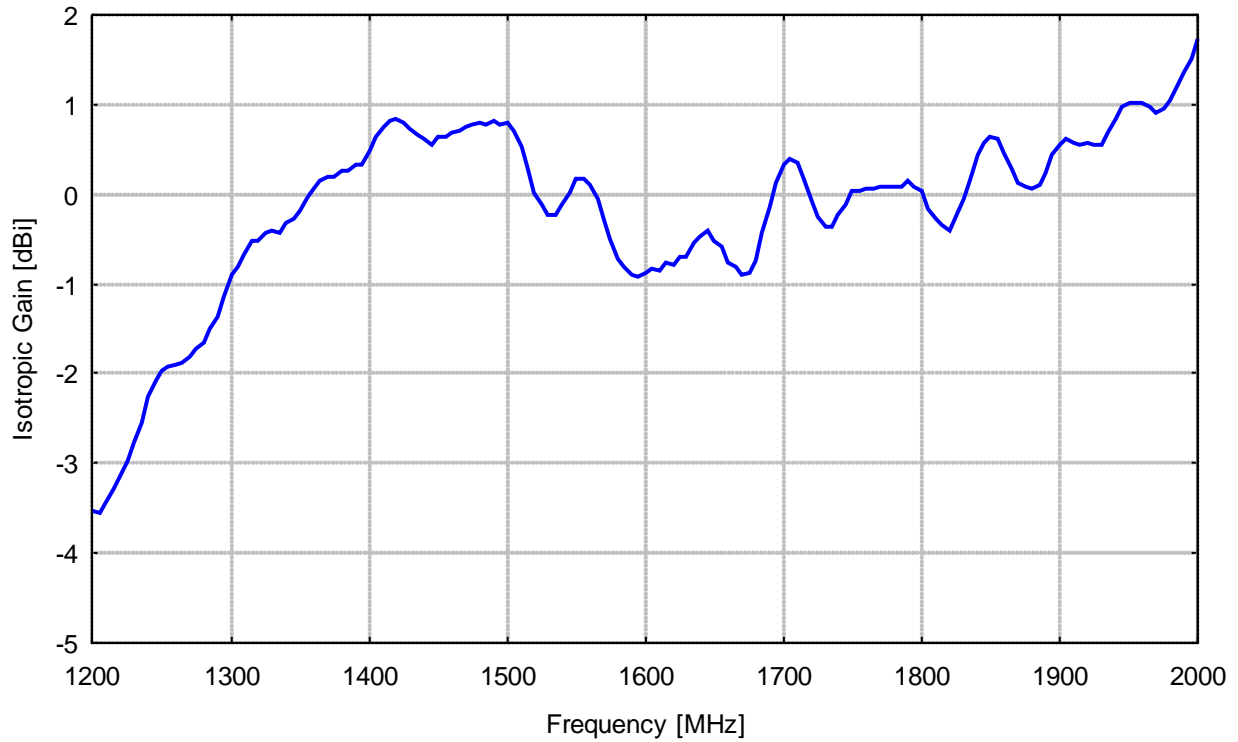
TSA 1750 typical VSWR



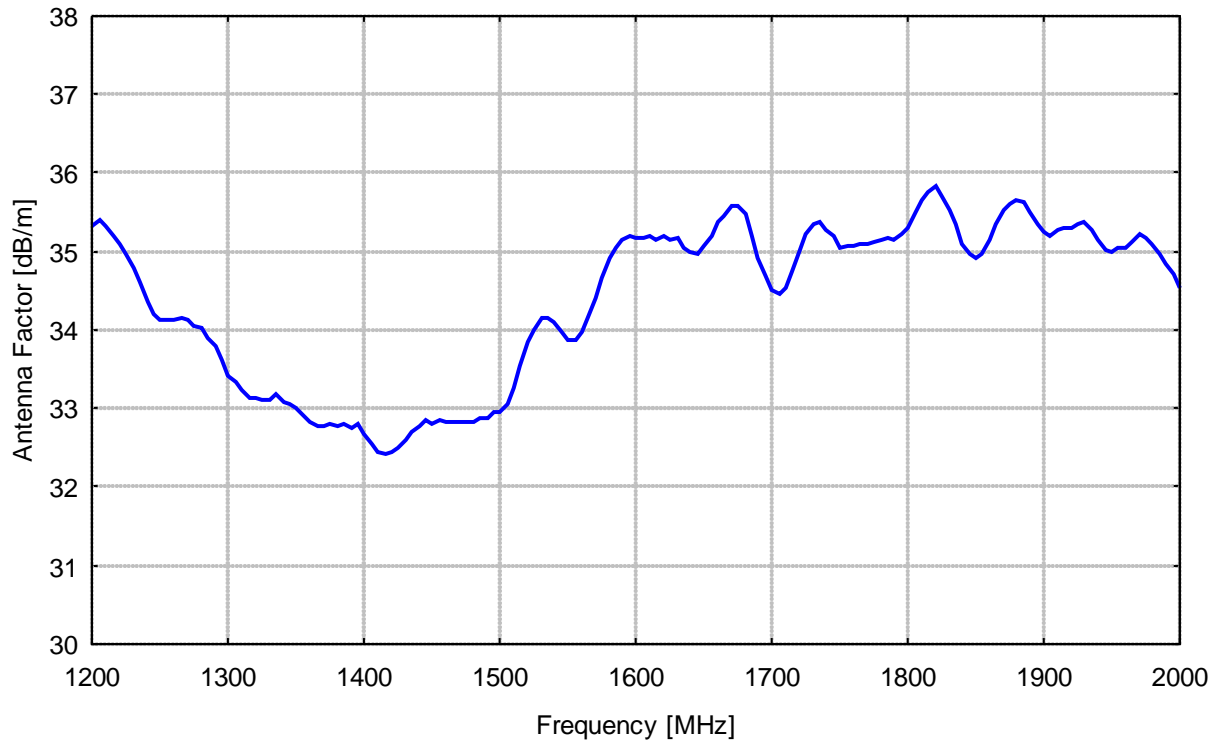


**TSA 1950**

TSA 1950



TSA 1950







TSA 1950 typical VSWR

