

PRODUCT SPECIFICATION FOR INFORMATION

FINAL SPECIFICATION

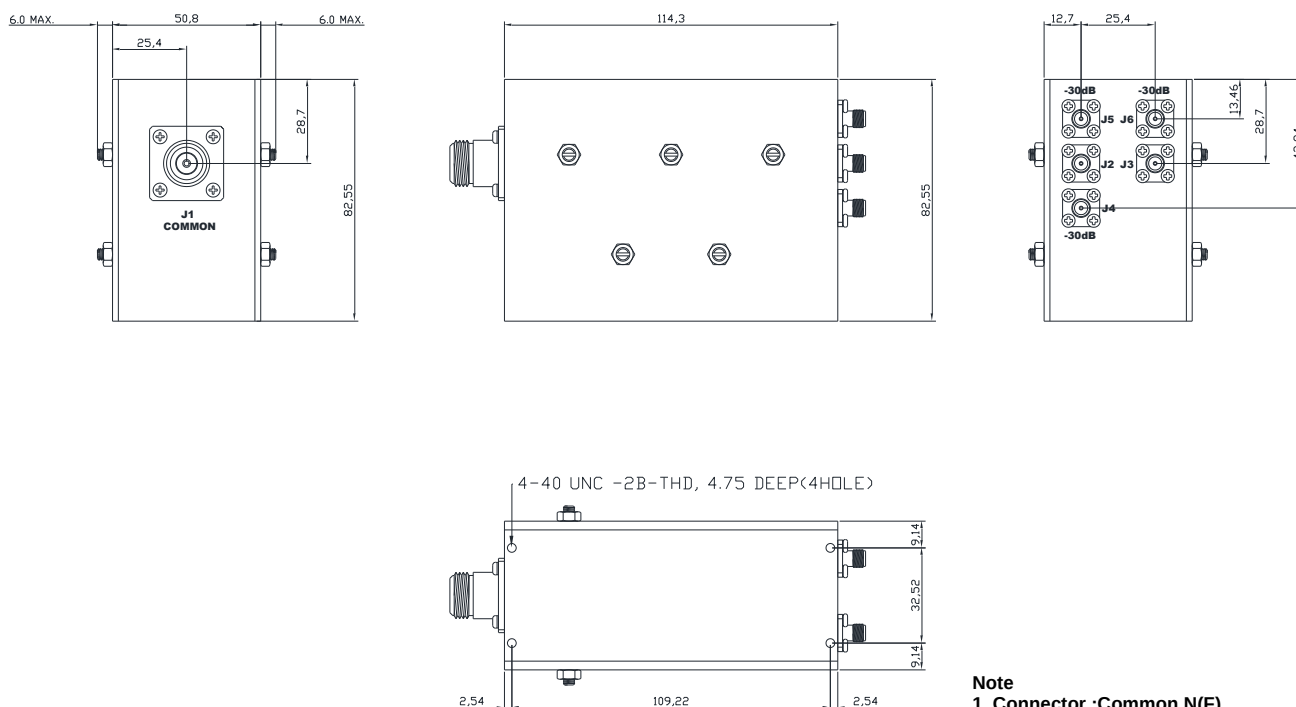
Product Name : Diplexer

Part No : MDI-C1030-C1090_15MS-A-R1

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2021.10.06	Bryan Jeon	Michael Jeon
2	R1	Added the 3 rd harmonic specifications	2021.10.12	Bryan Jeon	Michael Jeon

■ Mechanical Drawing



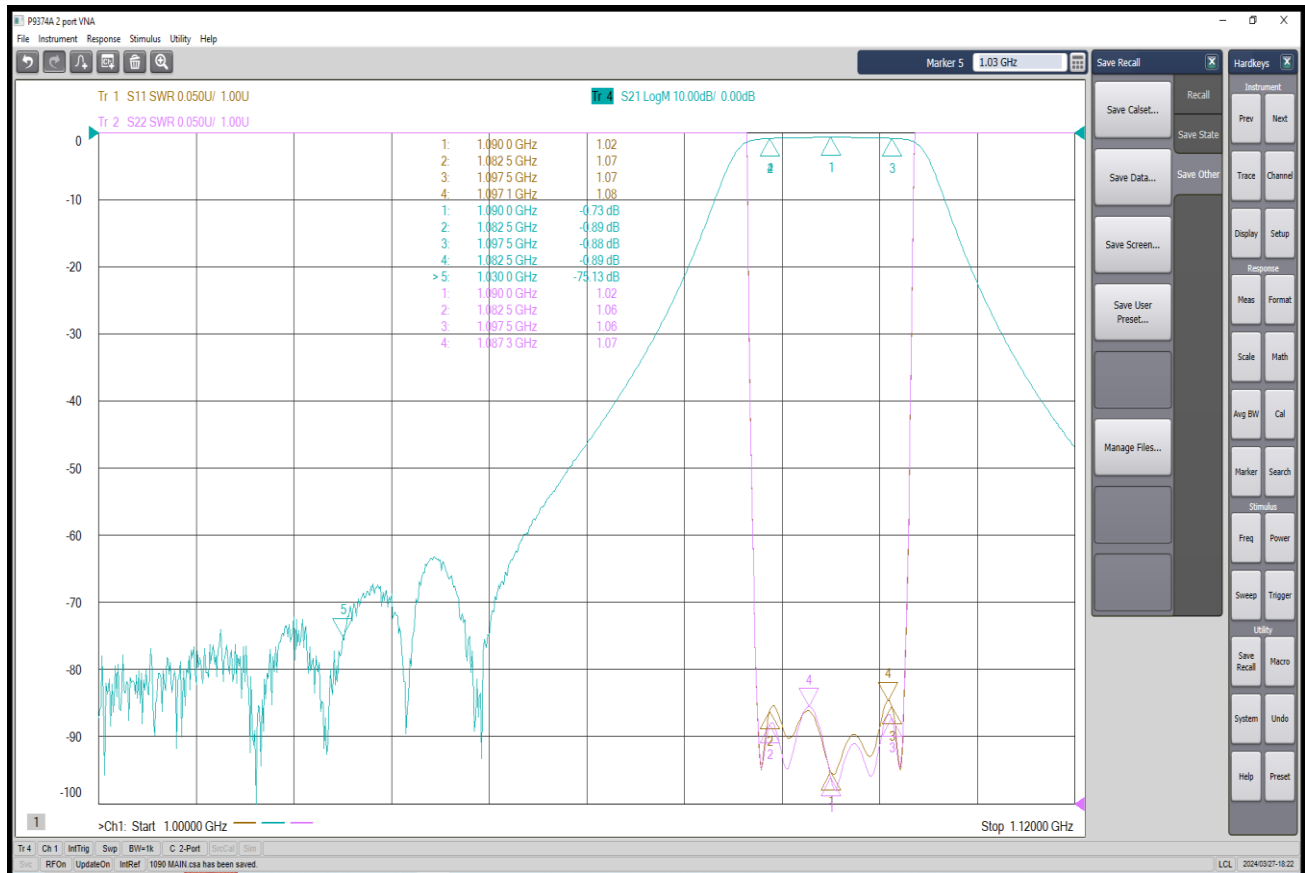
Note
1. Connector :Common N(F)
Others SMA(F)
2. Finish :Block Epoxy Coating

■ Electrical Specification

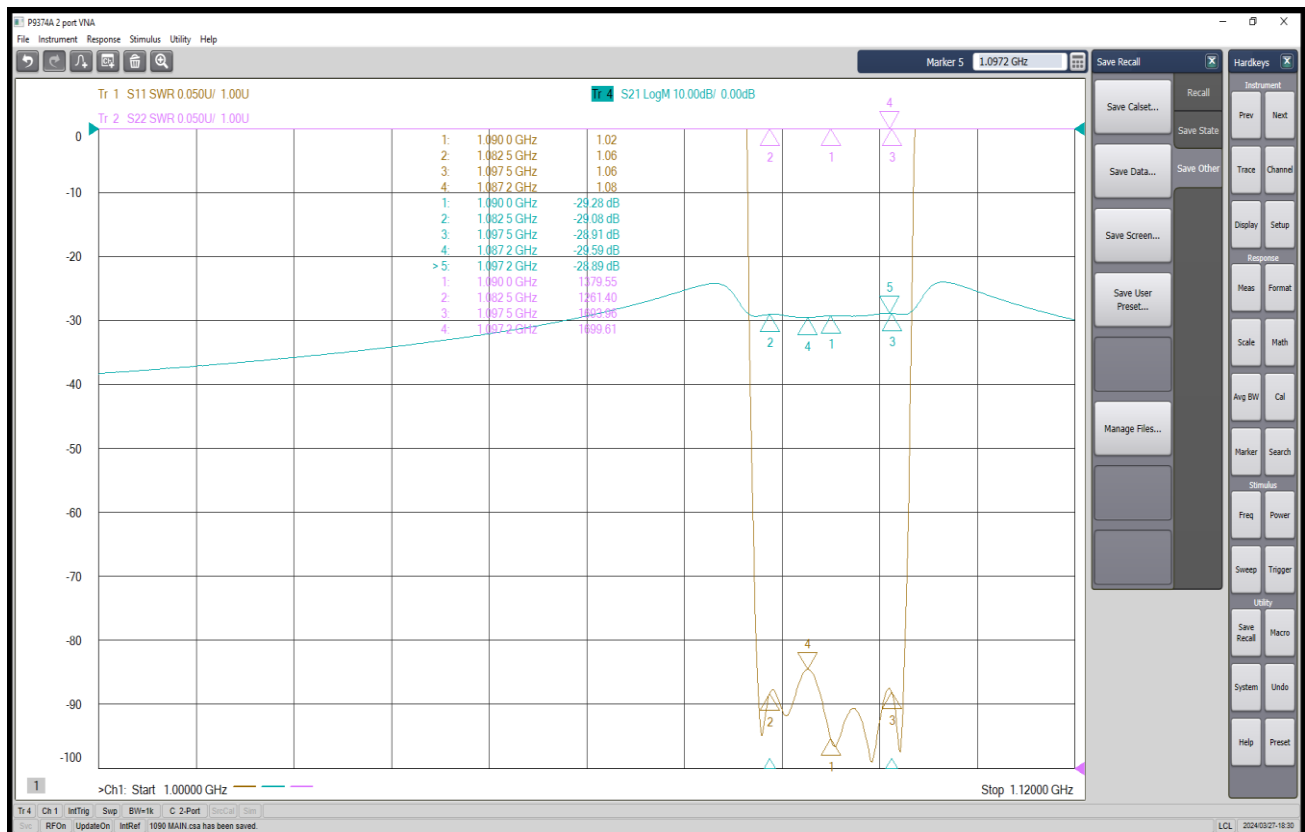
Parameter	Specification		Remark
	TX(J2-J1)	RX(J1-J3)	
1. Input Power	500W Peak / 50W Avg		
2. VSWR	1.25 Max.		
3. Insertion Loss	1.2dB Max.	1.2dB Max.	
4. Center Frequency	1030MHz	1090MHz	
5. Flat Band Width (0.5dB) J1 to J2	1022.5MHz~1037.5MHz	1082.5MHz~1097.5MHz	
6. 2 nd Harmonic	60dB Min @2045~2075MHz	60dB Min @2165~2195MHz	
7. 3 rd Harmonic	60dB Min @3067.5~3112.5MHz	60dB Min @3247.5~3292.5MHz	
8. Rejection	65dBc Min.@1090MHz	63dB Min.@1030MHz	
9. Coupling	Forward(J2-J4) 30dB±2dB Reverse(J2-J5) 30dB±2dB	(J3-J6) 30dB±2dB	
10. Operating temp	-30°C ~ +60°C		
11. Storage temp	-40°C ~ +70°C		
12. Humidity	95% Non condensing at 40°C		
13. Shock	30g ,1/2 sine wave , 11ms in all 6 axes		
14. Vibration	1 Hz to 1KHz, 1g		

Remarks: This is a preliminary datasheet for reference.

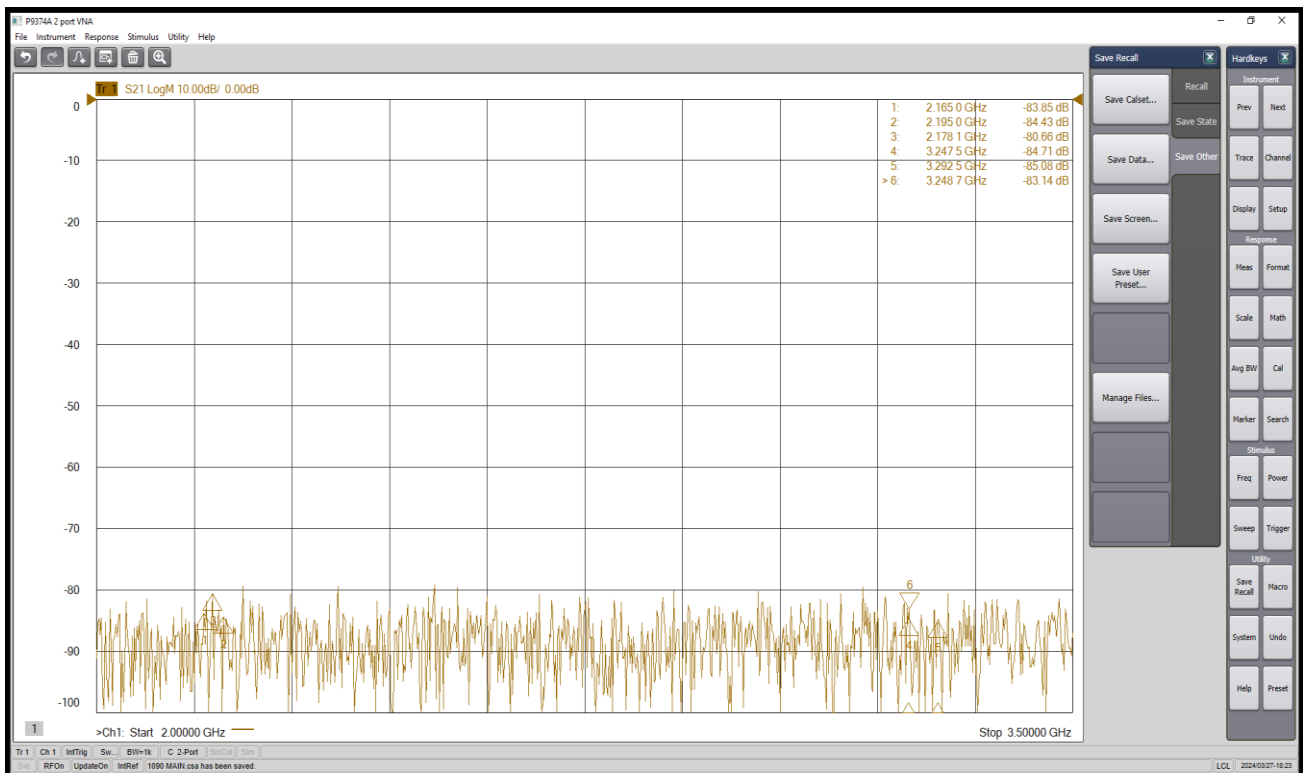
Test Curve



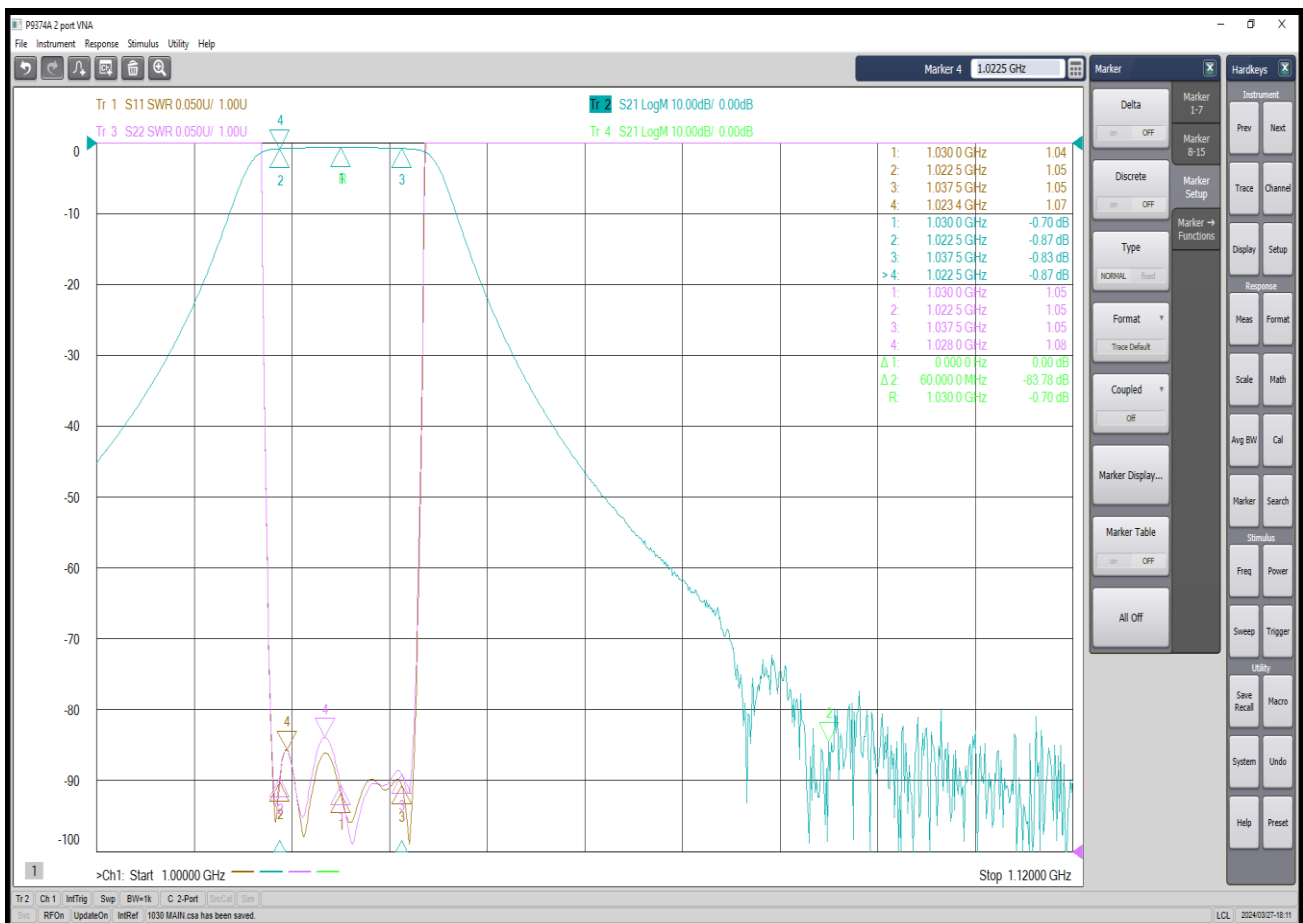
[RX Insertion Loss, VSWR, Rejection]



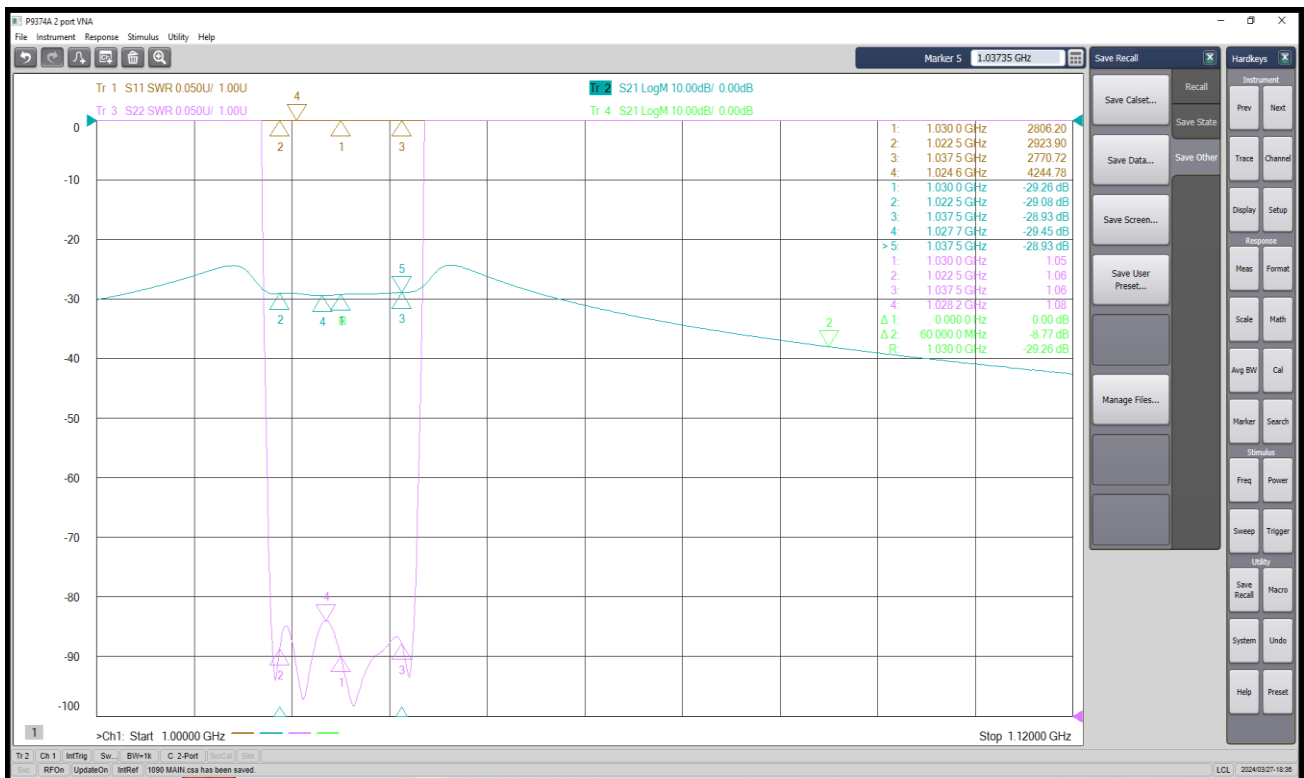
[RX Coupling]



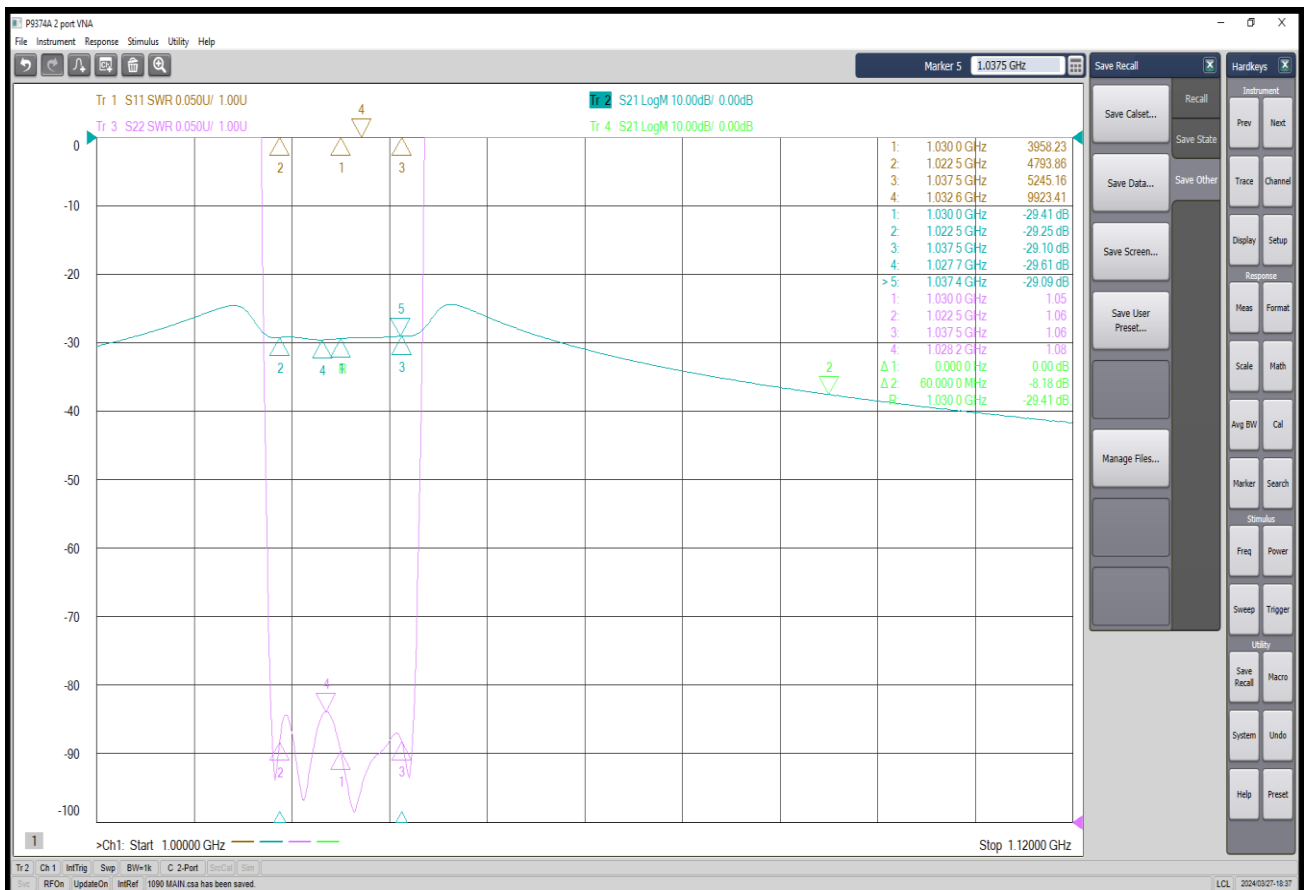
[RX Harmonics]



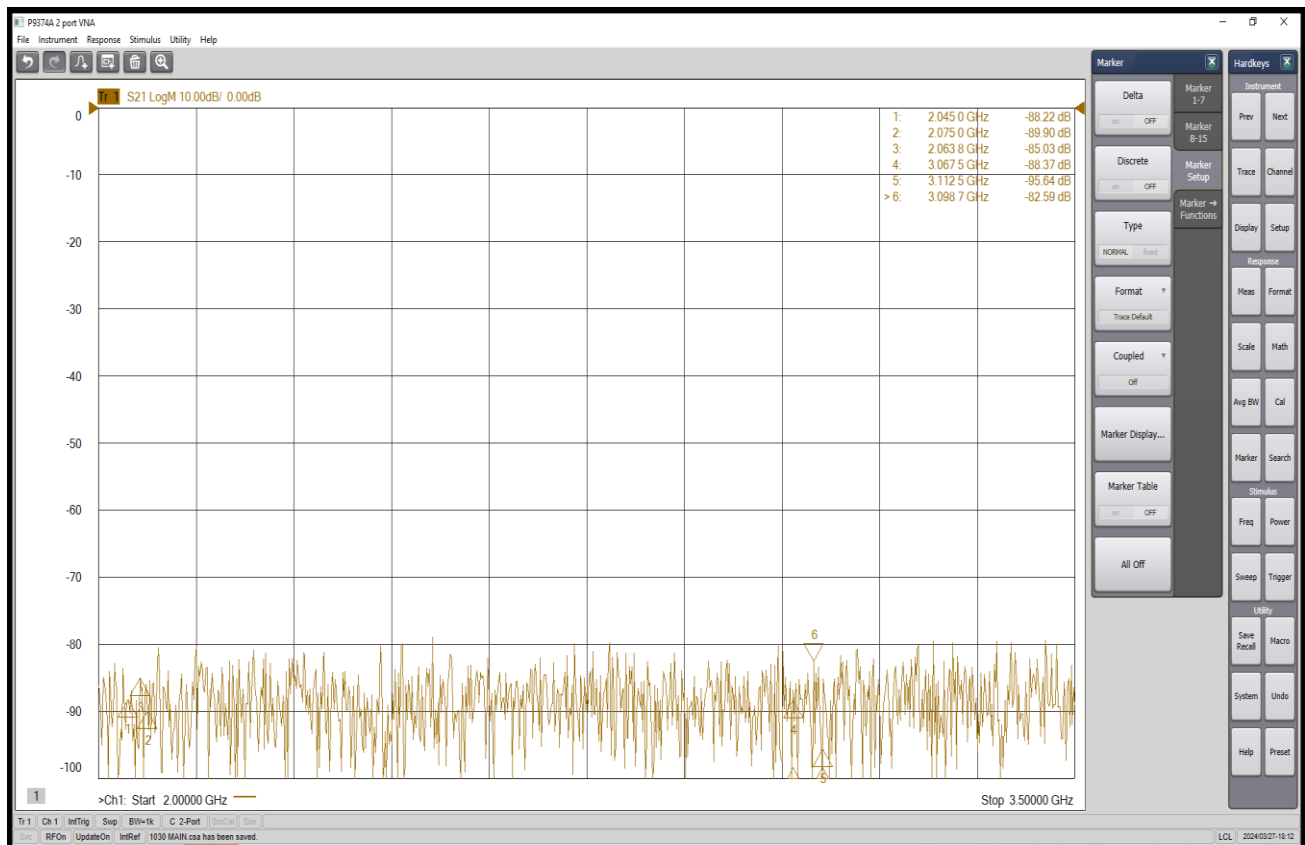
[TX Insertion Loss, VSWR, Rejection]



[TX Coupling Forward]



[TX Coupling Reverse]



[TX Harmonics]