Quantic PMI
PLANAR MONOLITHICS

SUMMARY TEST DATA
ON
PS-2G18G-360-12D-TS

Customer: [redacted]
SO No: [redacted]
Model No: PS-2G18G-360-12D-TS
Serial No: PL49787/2443

Tested By: A. Mousavi
Temperature: +25°C
Date 10/24/2024
Drawing No: 27635120 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	2.0 GHz to 18.0 GHz	2.0 GHz to 18.0 GHz	PMI QA4
2	Phase Range	360°	360°	
3	Insertion Loss	18 dB MAX	16.78 dB	
4	VSWR	2.2:1 MAX	2.05:1	
5	Amplitude Variation Vs. Phase (PM/AM)	±3.5 dB TYP.	±2.46 dB	
6	Phase vs. Frequency	±15.0° TYP.	±15.89°	
7	Control Logic	12 BIT TTL Compatible.	Verified	
8	Control Slopes	Linear	Verified	
9	Switching Speed	500 nSec MAX.	410 nsec TYP (See Typical Characteristics)	
10	Power Supply	+12 to +15V @ 100 mA -12 to -15V @ 100 mA	+15 @ 50 mA -15 @ 80 mA	PMI QA4

*Measured at 0 dBm Input Power

QA/QC Approval: Cameron Kelly Date: 11/7/24

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Phase State Legend

Phase 0 (0 °)	Phase 1 (11.25 °)	Phase 2 (22.5 °)	Phase 3 (33.75 °)
Phase 4 (45 °)	Phase 5 (56.25 °)	Phase 6 (67.5 °)	Phase 7 (78.75 °)
Phase 8 (90 °)	Phase 9 (101.25 °)	Phase 10 (112.5 °)	Phase 11 (123.75 °)
Phase 12 (135 °)	Phase 13 (146.25 °)	Phase 14 (157.5 °)	Phase 15 (168.75 °)
Phase 16 (180 °)	Phase 17 (191.25 °)	Phase 18 (202.5 °)	Phase 19 (213.75 °)
Phase 20 (225 °)	Phase 21 (236.25 °)	Phase 22 (247.5 °)	Phase 23 (258.75 °)
Phase 24 (270 °)	Phase 25 (281.25 °)	Phase 26 (292.5 °)	Phase 27 (303.75 °)
Phase 28 (315 °)	Phase 29 (326.25 °)	Phase 30 (337.5 °)	Phase 31 (348.75 °)

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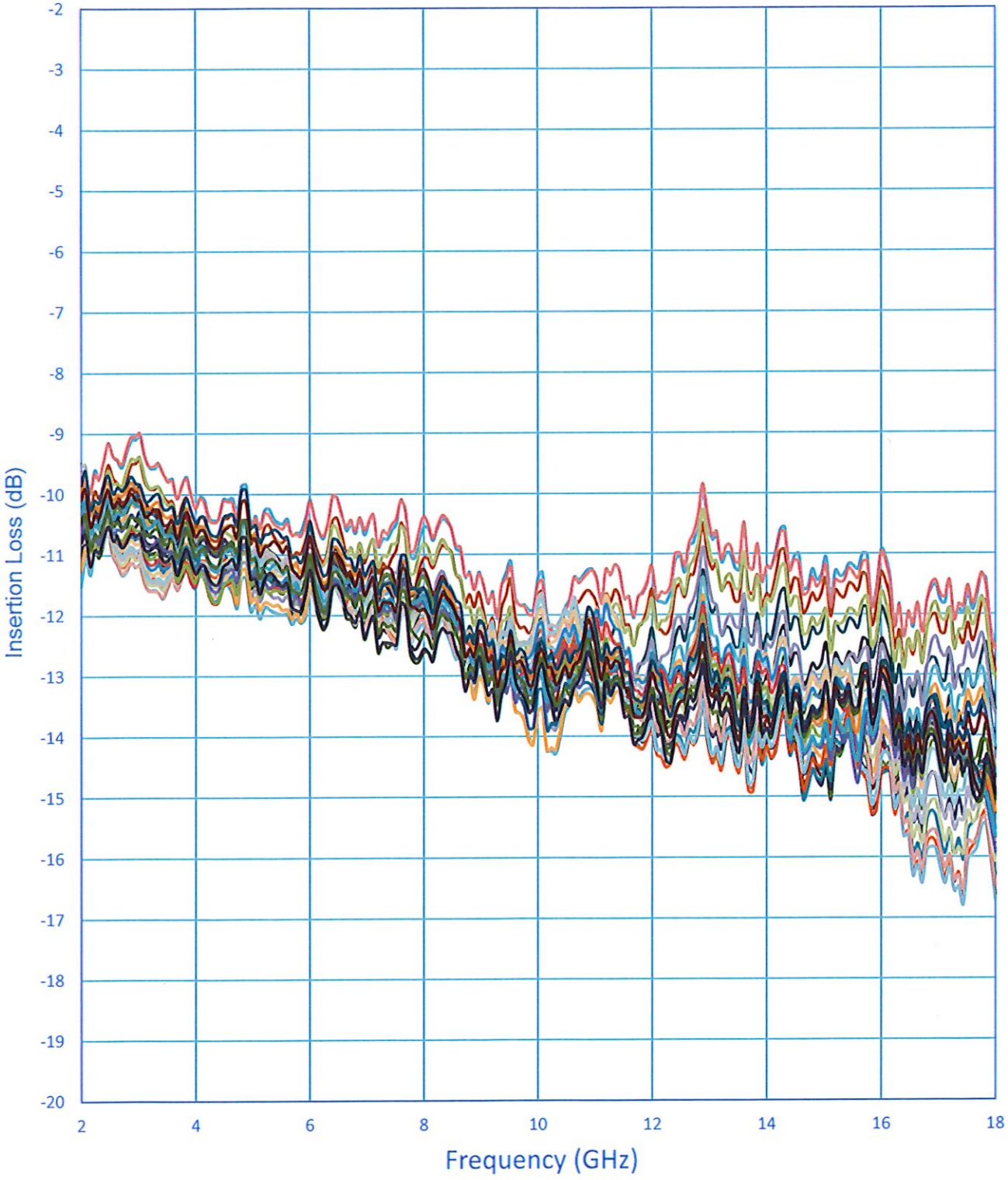
Insertion Loss Vs. Frequency



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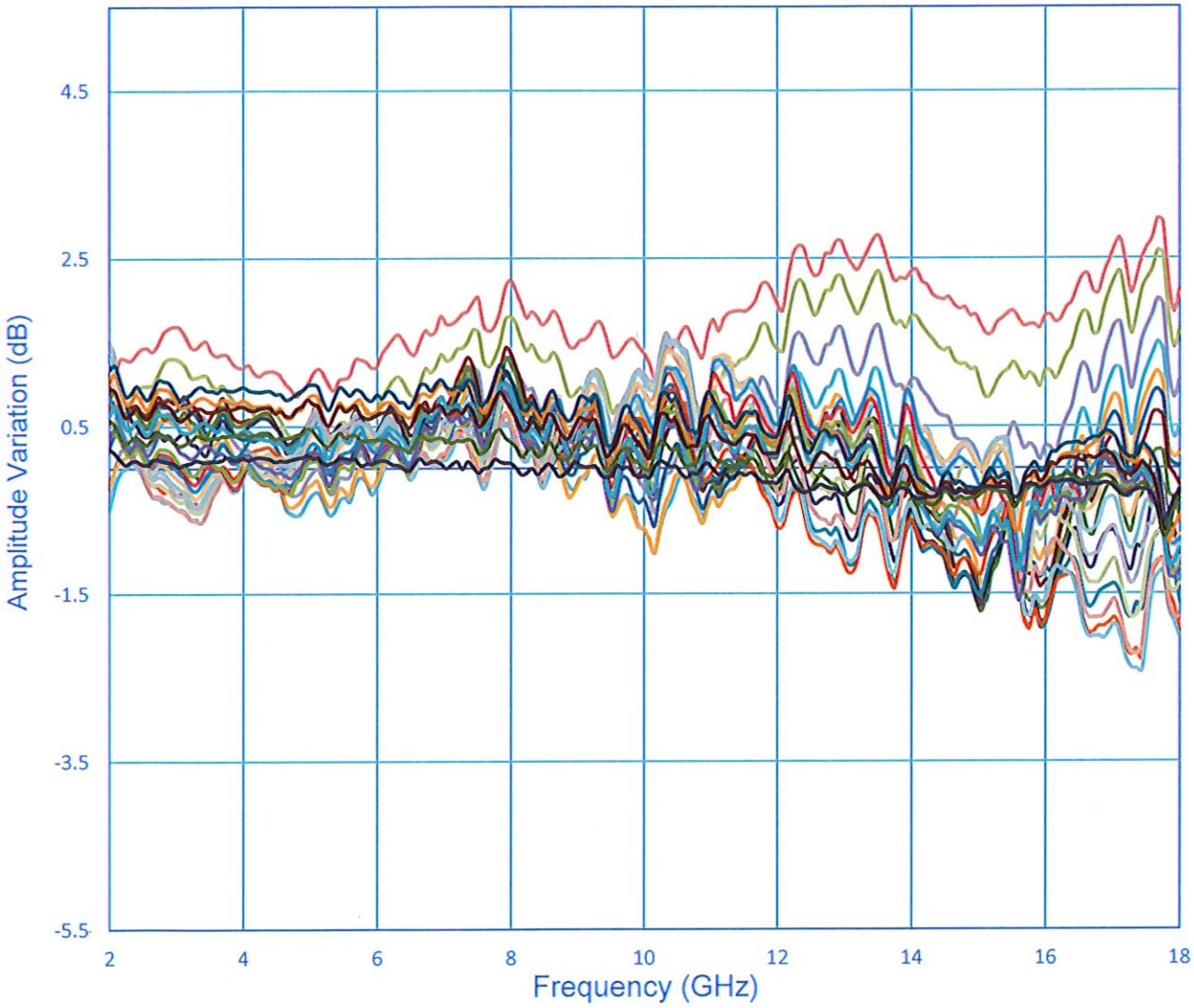
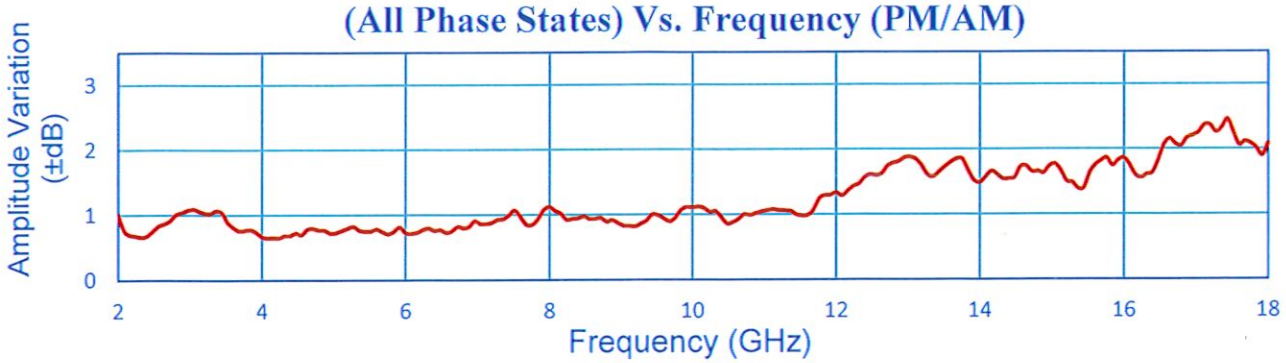
Amplitude Vs. Frequency
(PM/AM)



Maximum Amplitude Variation From Center
(All Phase States) Vs. Frequency (PM/AM)



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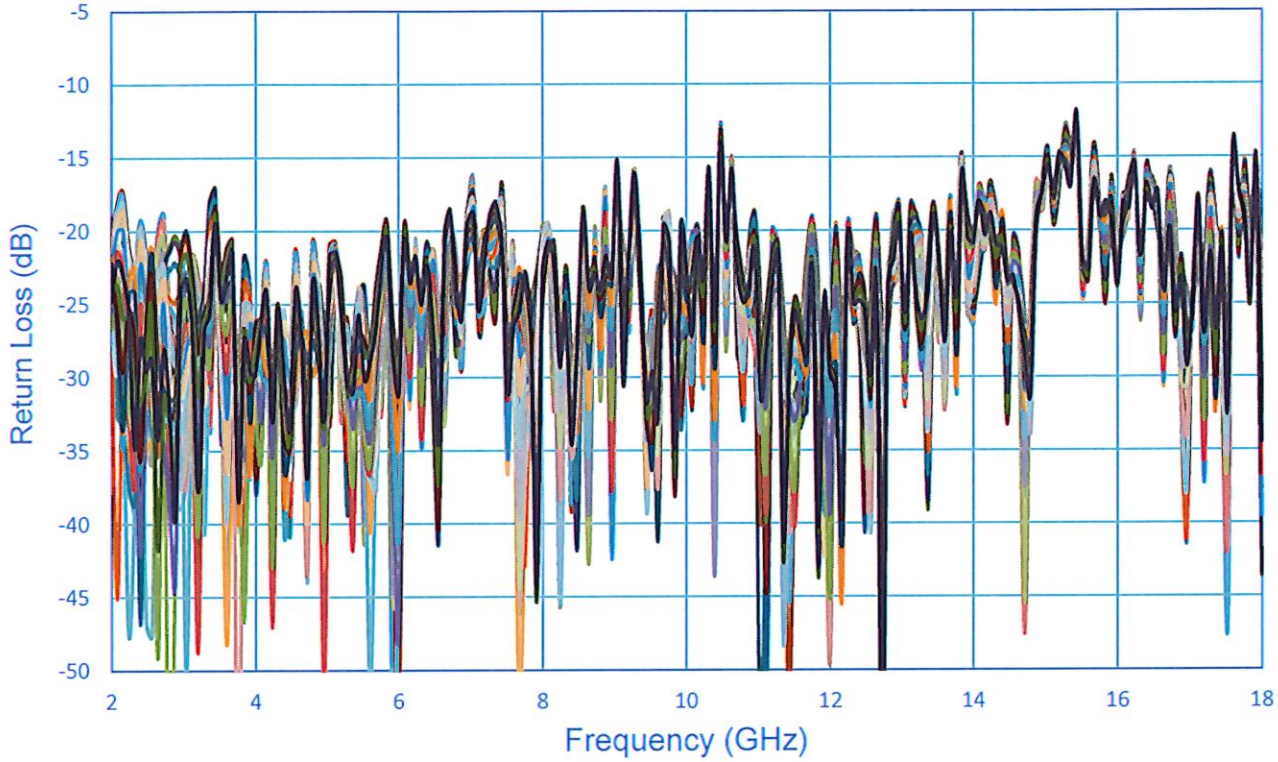
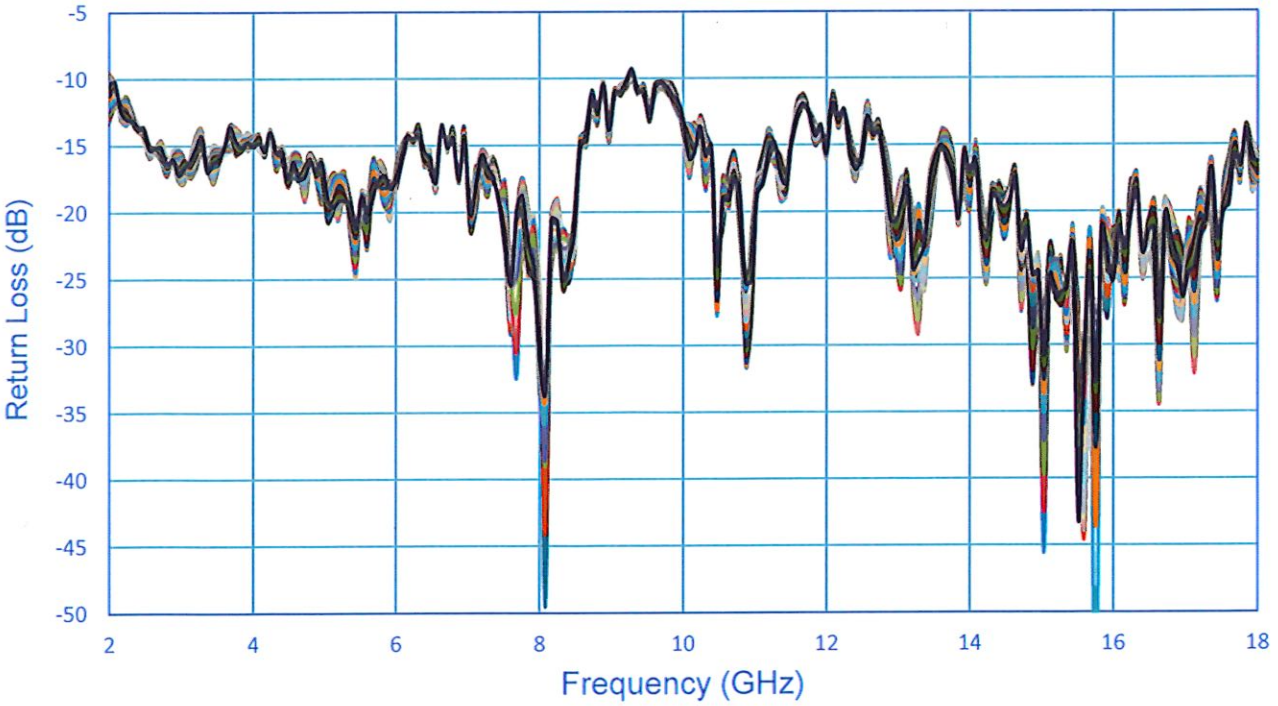
Input Return Loss Vs. Frequency



Output Return Loss Vs. Frequency



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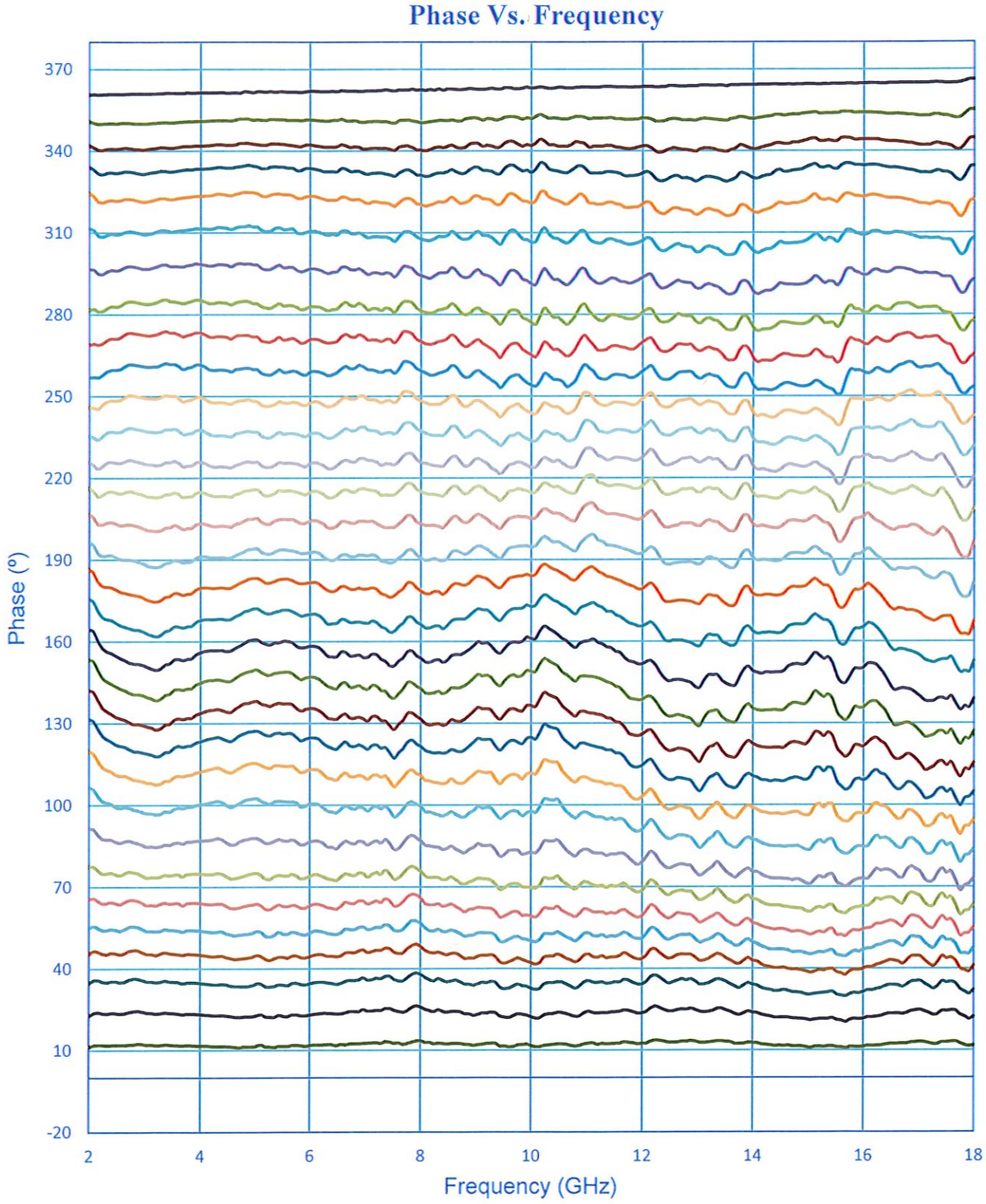

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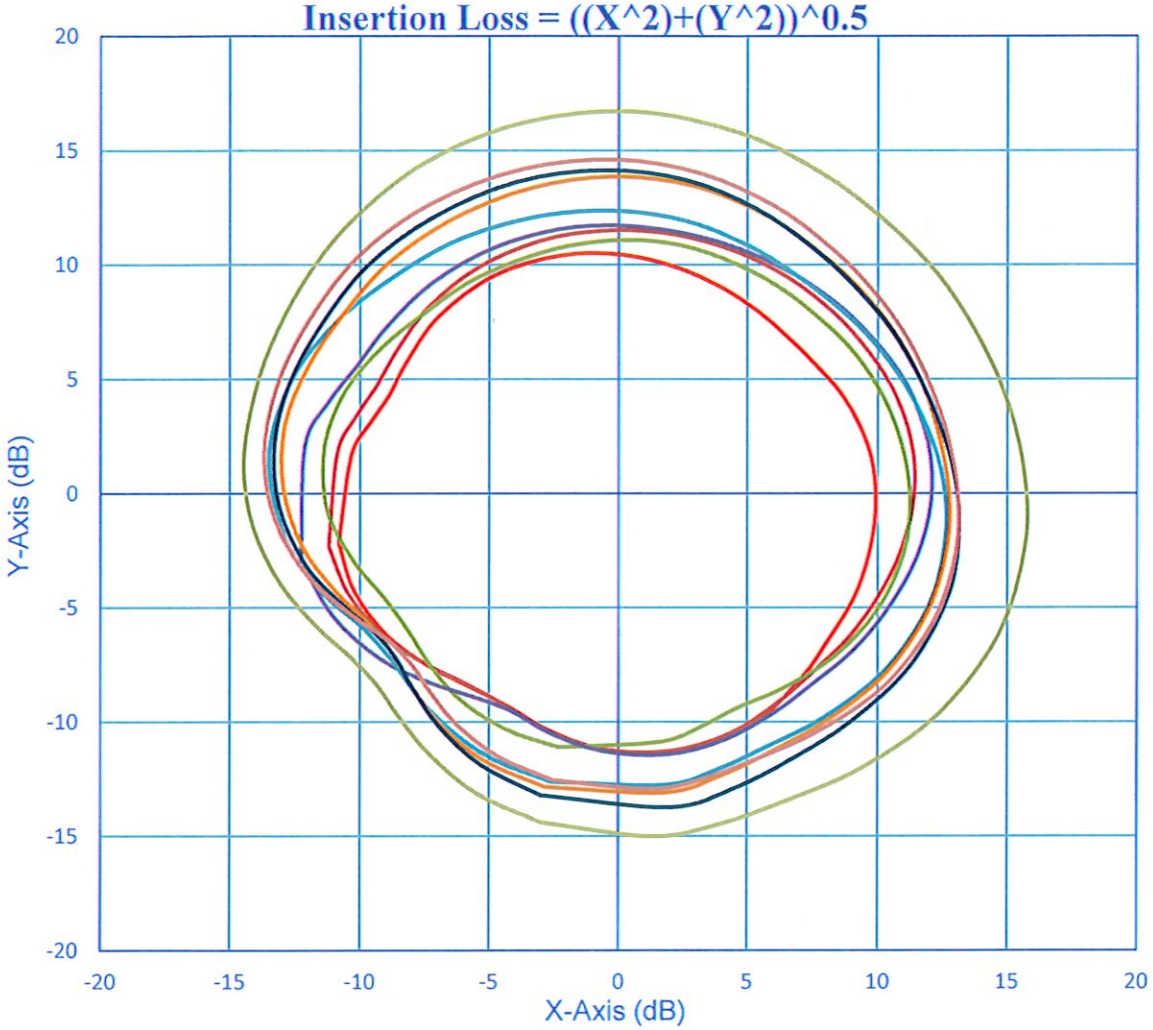
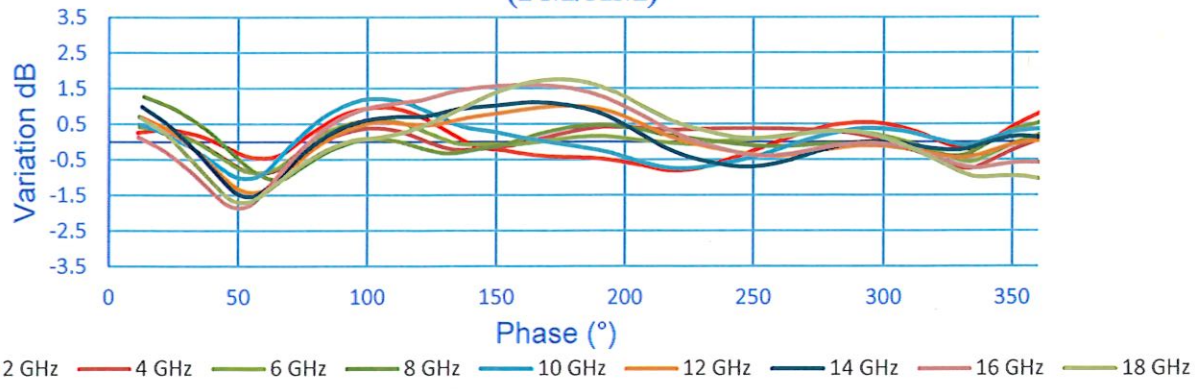
Insertion Loss Vs. Phase
Insertion Loss = ((X^2)+(Y^2))^0.5



Amplitude Linearity Vs. Phase
(PM/AM)



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