



PL15716/1433

Typical Characteristics On PEC2-2G18G-2DBM-LM-SFF

PMI Model No. PEC2-2G18G-2DBM-LM-SFF is a 2.0 to 18.0GHz Limiting Amplifier that provides a limited output power of $2\text{dBm} \pm 2\text{dB}$ with an input power range of -50 to $+30\text{dBm}$.



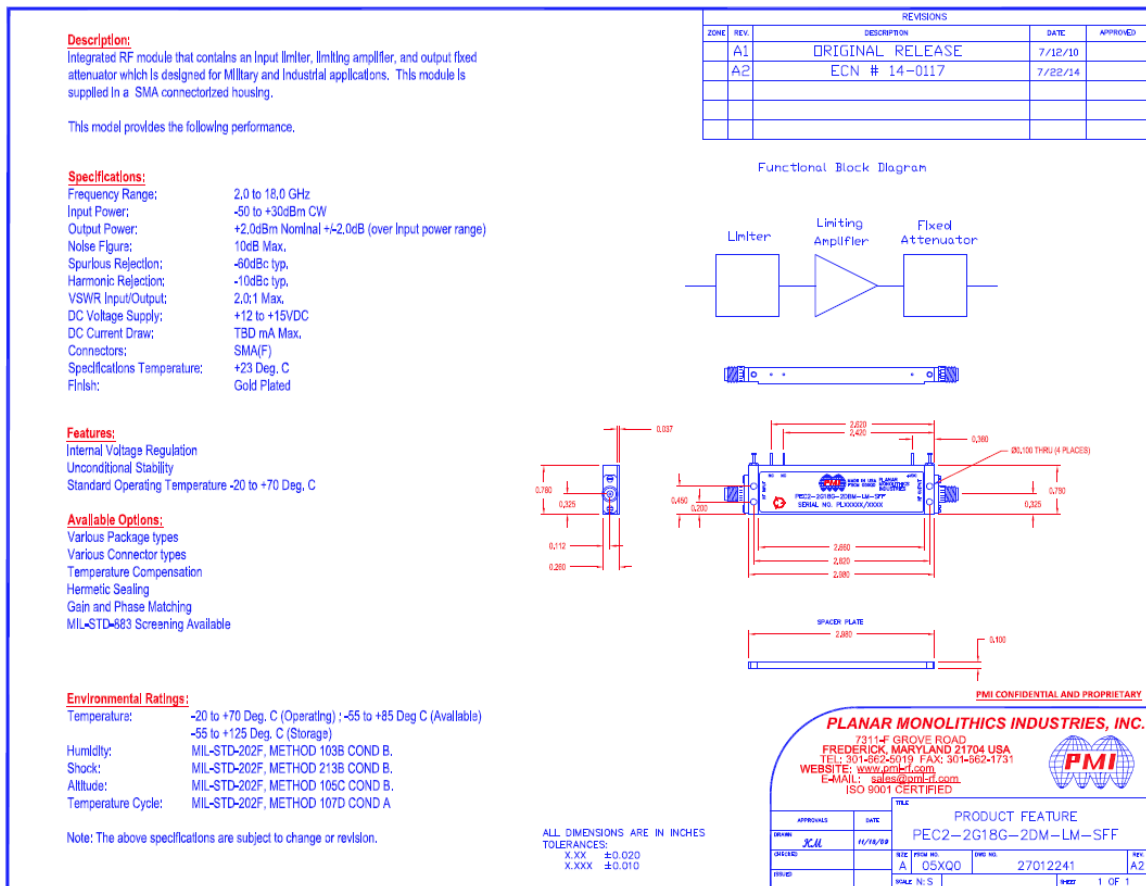
August 29, 2014
Tested & Reported By: Kevin Mason

East Coast Main Location: 7311-F Grove Road, Frederick, MD 21704 USA
East Coast Second Location: 5715 Industry Lane, Unit 11, Frederick, MD 21704 USA
West Coast Location: 4921 Robert J. Mathews Pkwy, Suite 1, El Dorado Hills, CA 95762 USA
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Product Feature Drawing



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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	Frequency Range:	2.0 to 18.0 GHz	2.0 to 18.0 GHz (See Plots)	
2	Input Power (CW):	-50 to +30 dBm	-50 to +30dBm	
3	Output Power:	+2.0 dBm Nominal +/-2.0dB	+2.59dBm +/- 1.09dB (See Plots)	
4	Noise Figure:	10 dB Max	9.7dB (See Plot)	
5	Spurious Rejection:	-60 dBc Typ.	>-60 dBc	
6	Harmonic Rejection:	-10 dBc Typ.	> 10dBc (See Plots)	
7	VSWR Input/Output:	2.0:1 Max	Input – 1.89:1 Output – 1.74:1 (See Plots)	
8	DC Voltage Supply:	+12 to +15 VDC	+12 to +15VDC	
9	DC Current Draw:	550 mA Max	405mA	

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Saturated Output Power versus Frequency

Input Power = -50dBm



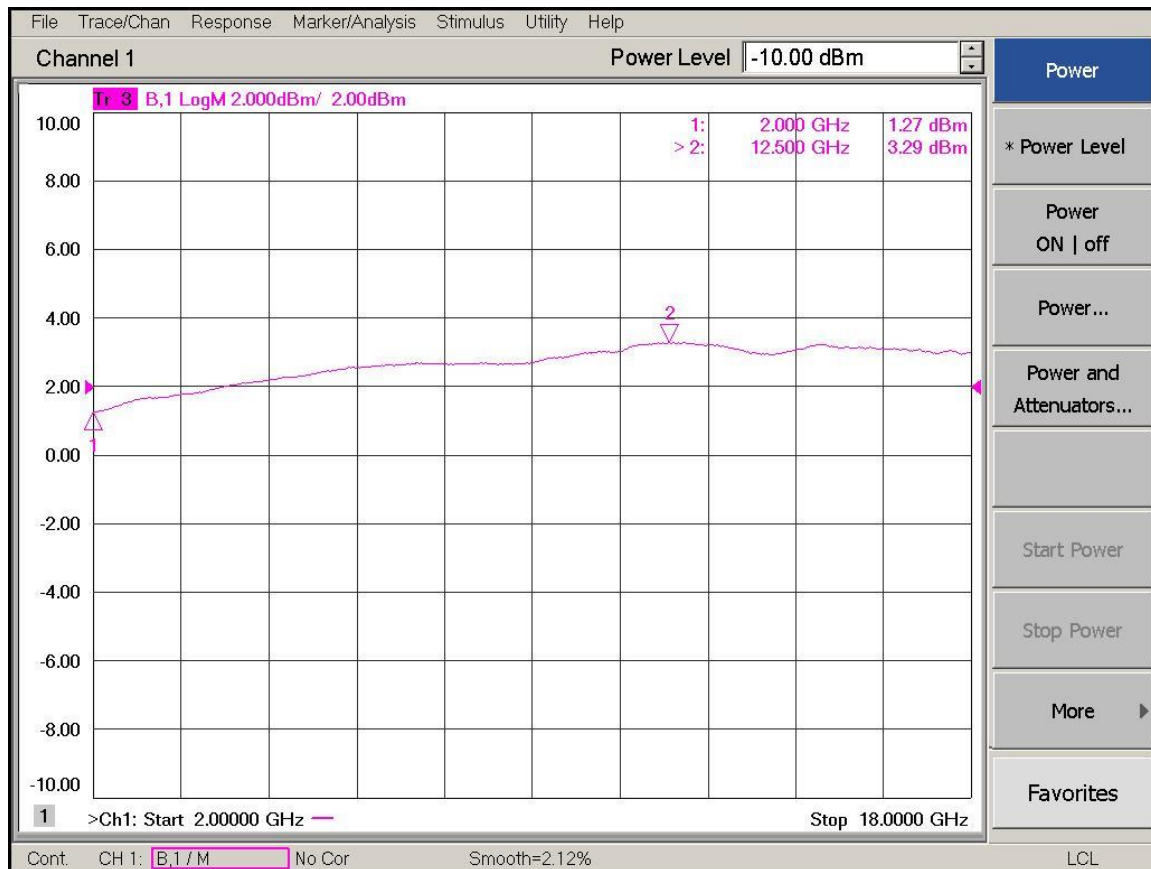
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Saturated Output Power versus Frequency

Input Power = -40dBm



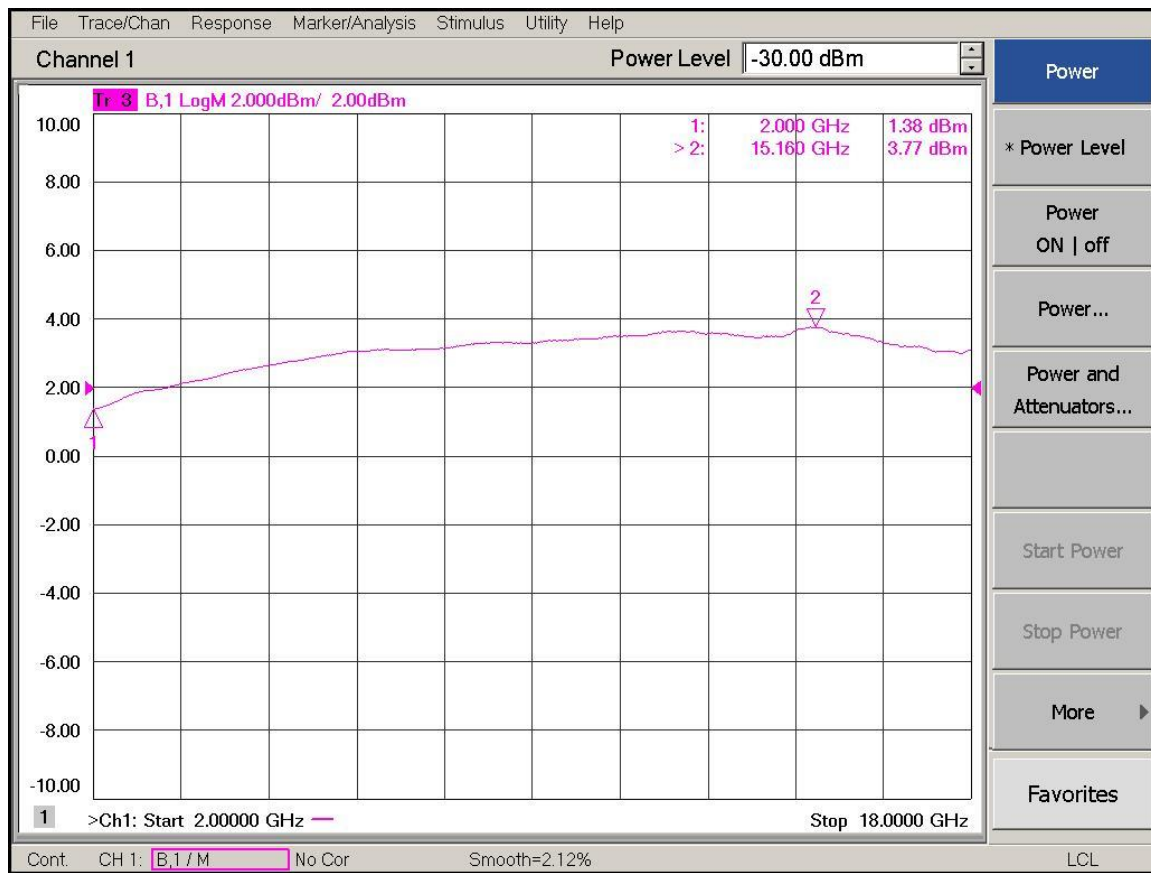
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Saturated Output Power versus Frequency

Input Power = -30dBm



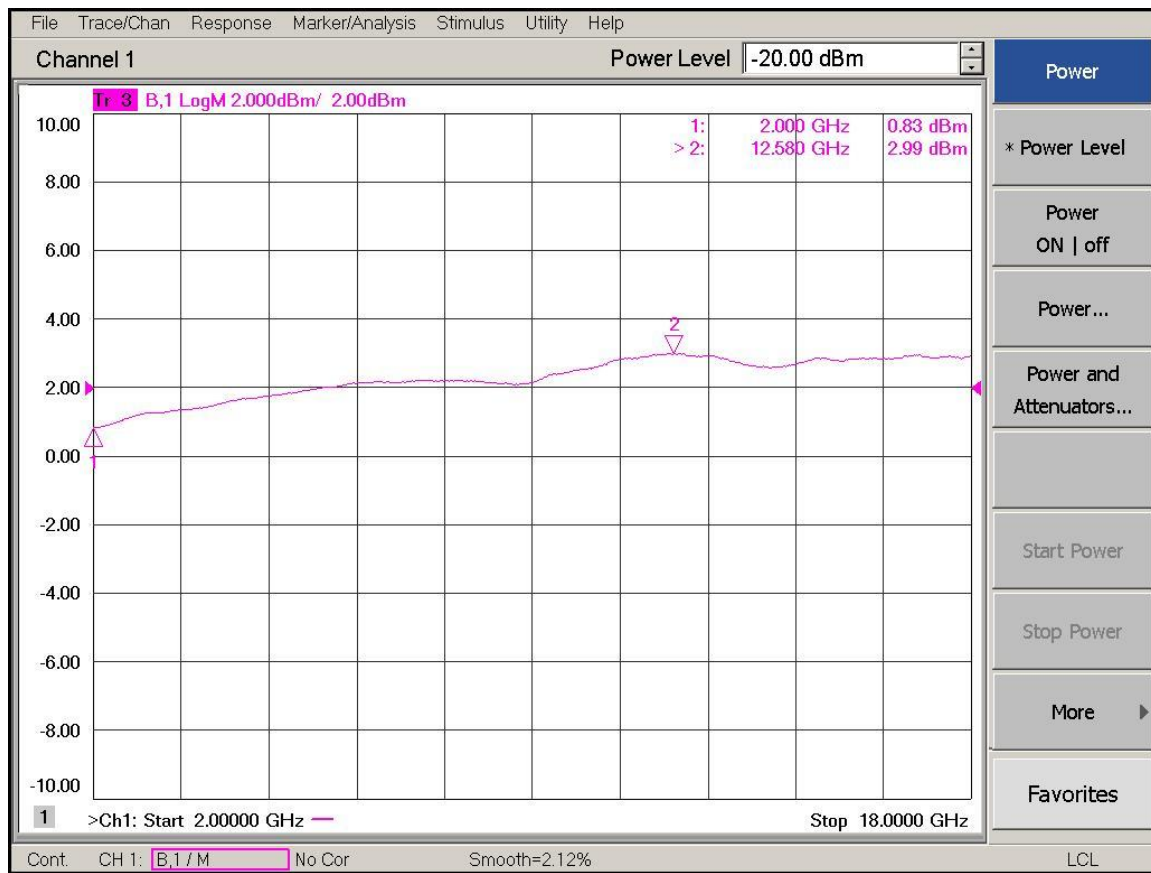
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Saturated Output Power versus Frequency

Input Power = -20dBm



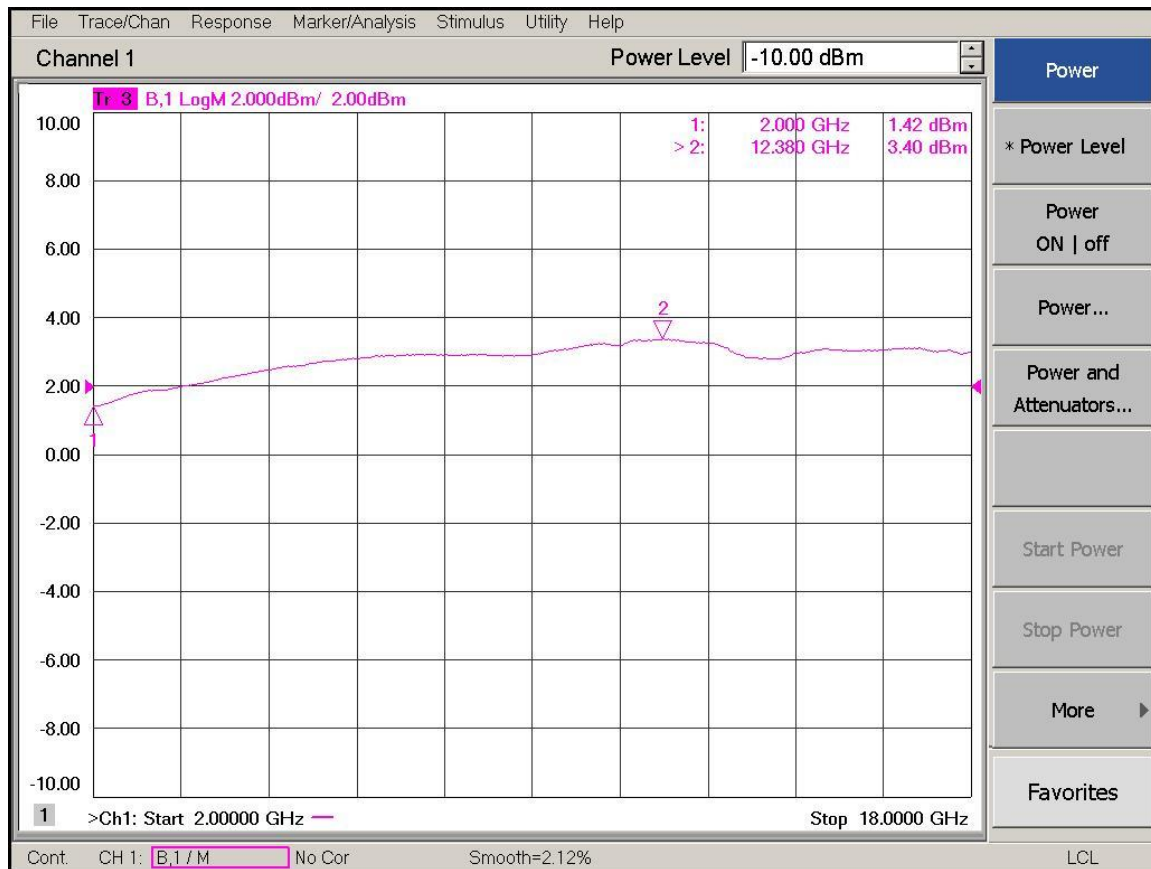
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Saturated Output Power versus Frequency

Input Power = -10dBm



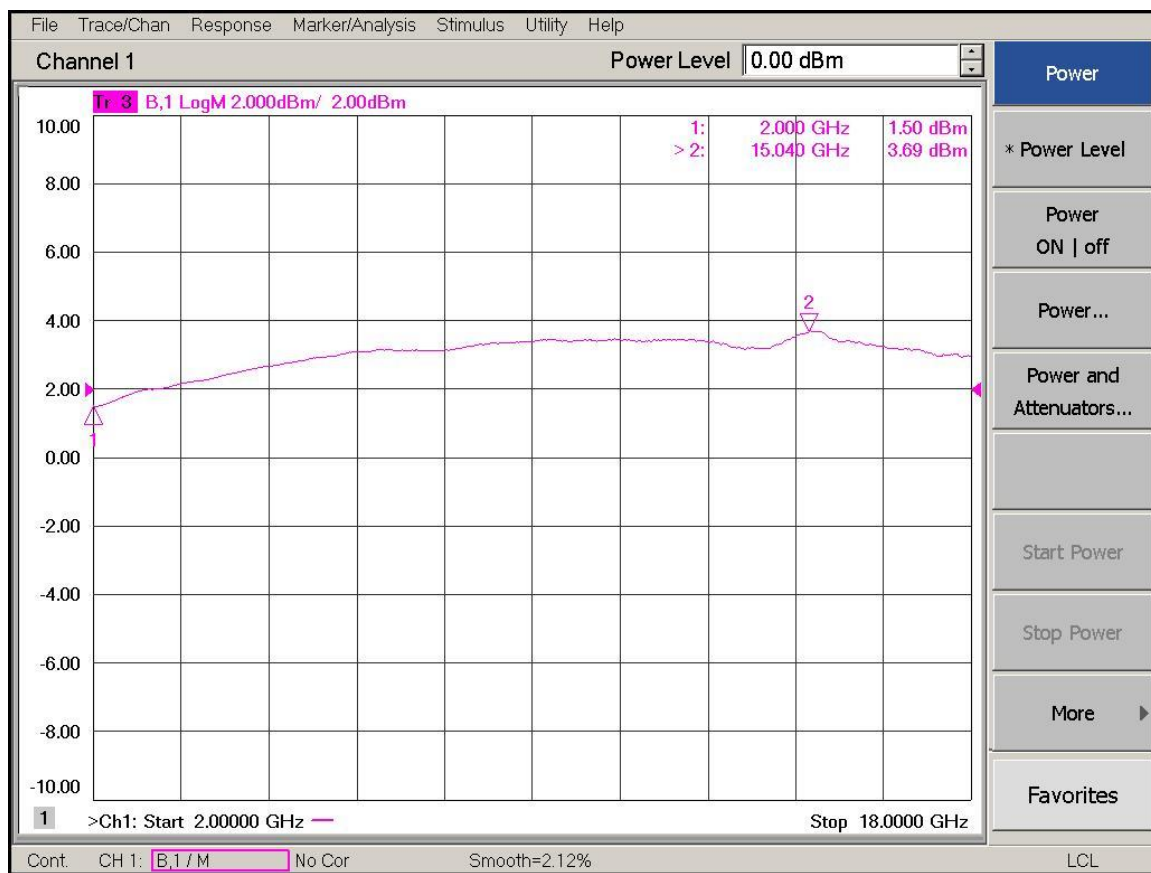
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Saturated Output Power versus Frequency

Input Power = 0dBm



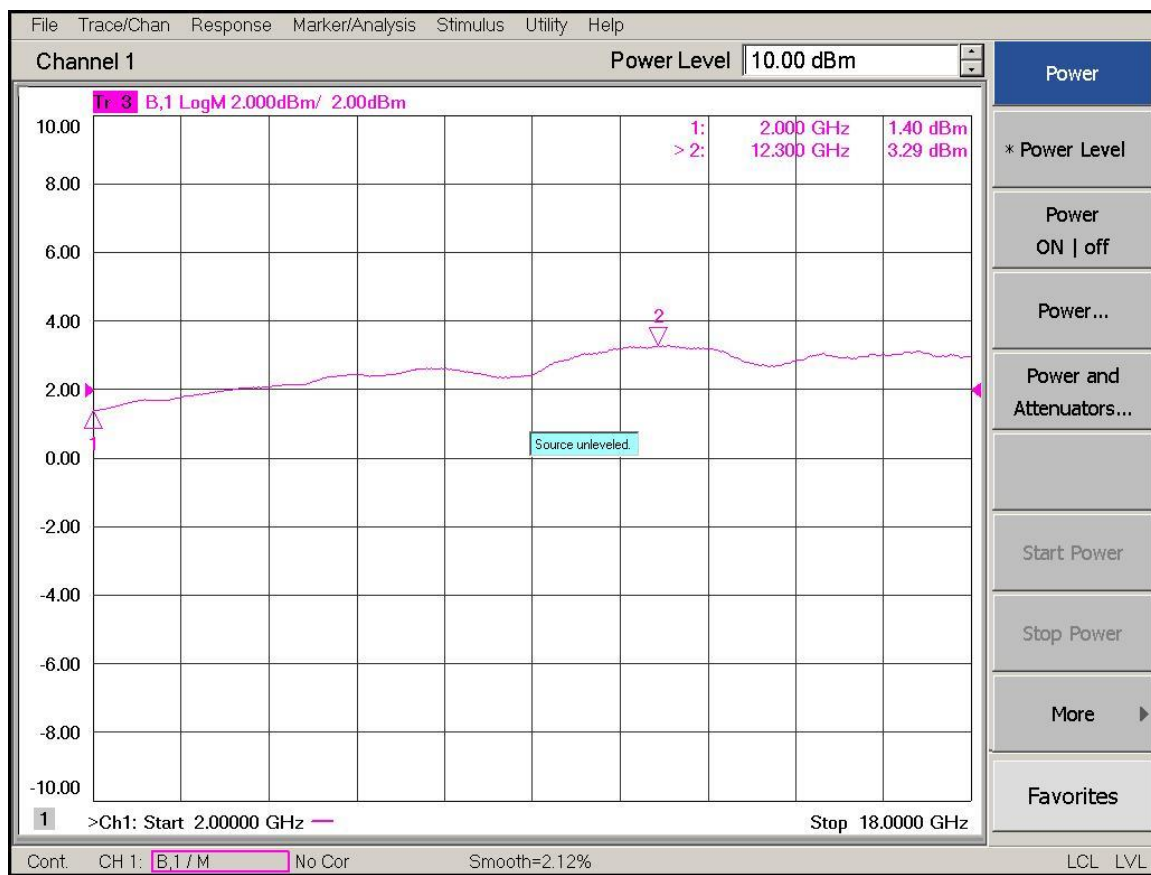
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Saturated Output Power versus Frequency

Input Power = +10dBm

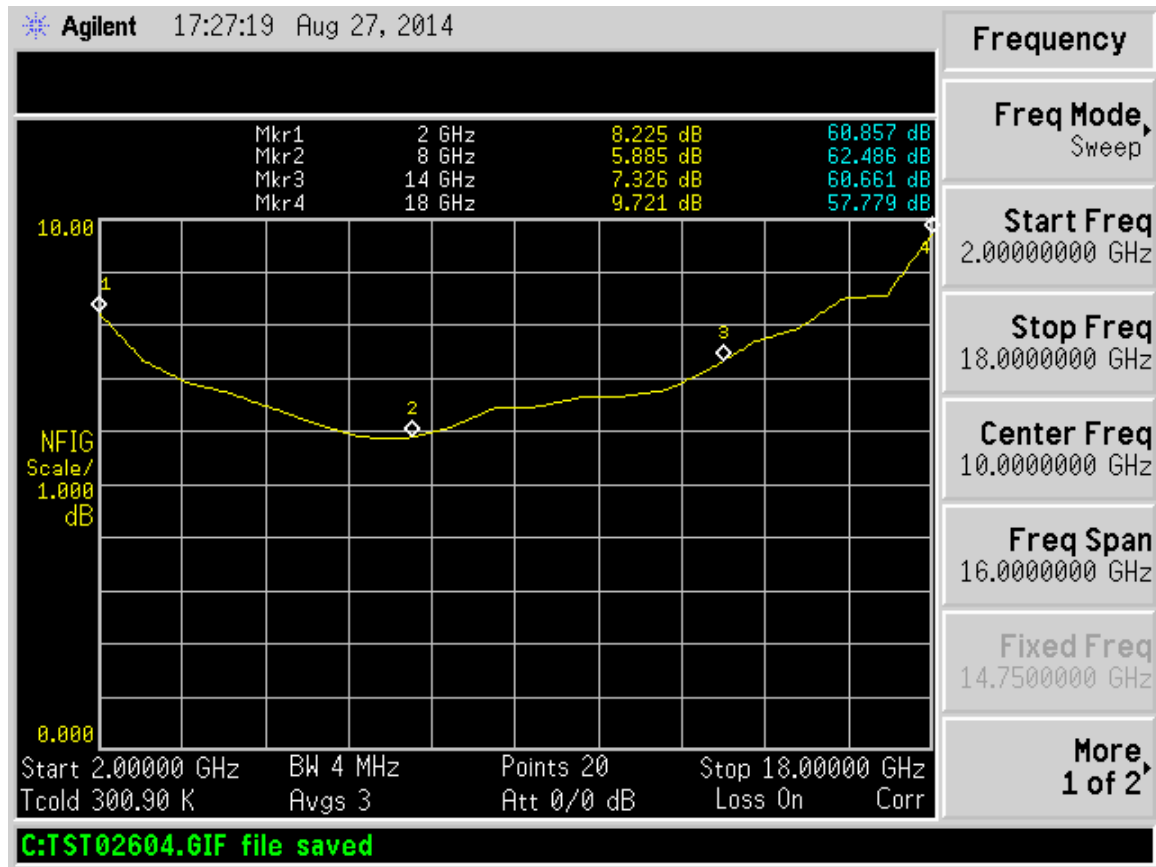


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Noise Figure Plot



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Input VSWR Plot



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2nd Harmonic Rejection

Fundamental Frequency (GHz)	Measured 2nd Harmonic Rejection (dBc)
2.0	21.4
8.0	32.16
14.0	23.03
18.0	12.53

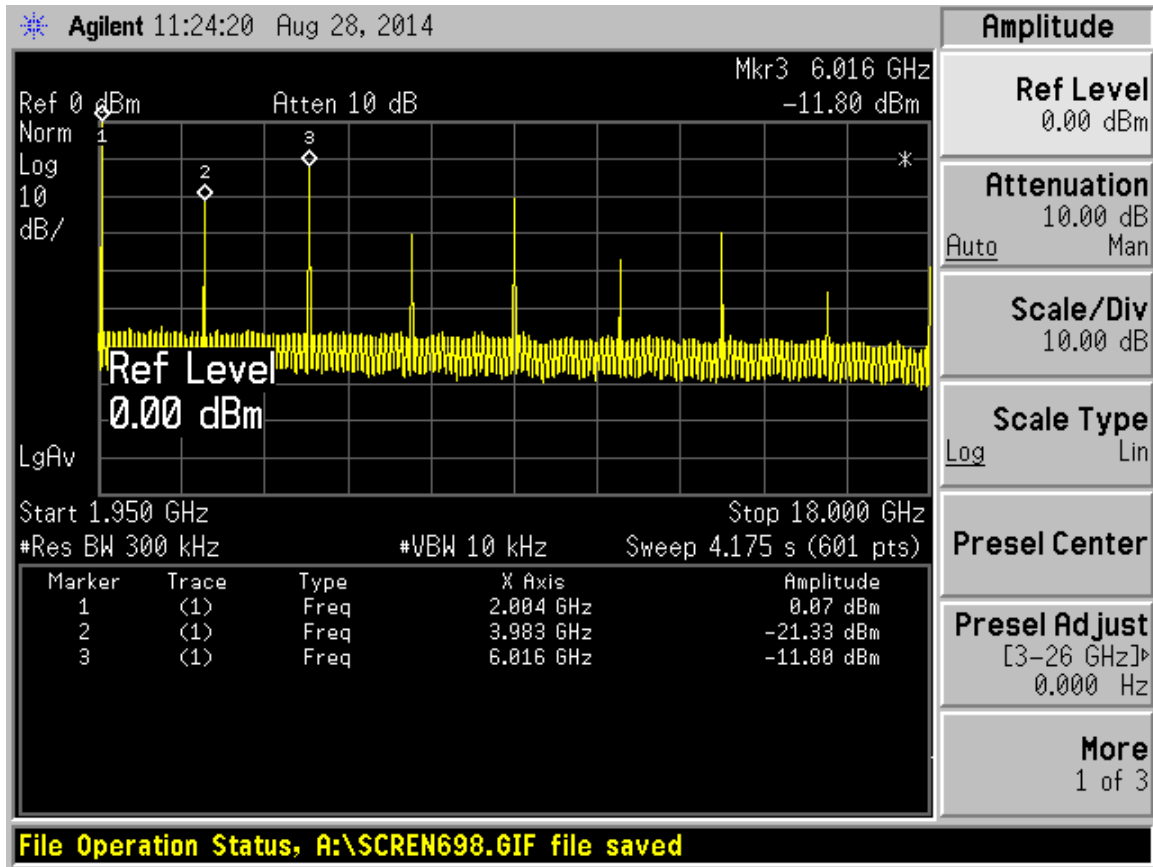
*NOTE: See Plots

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Harmonic Rejection Plot at 2GHz Input

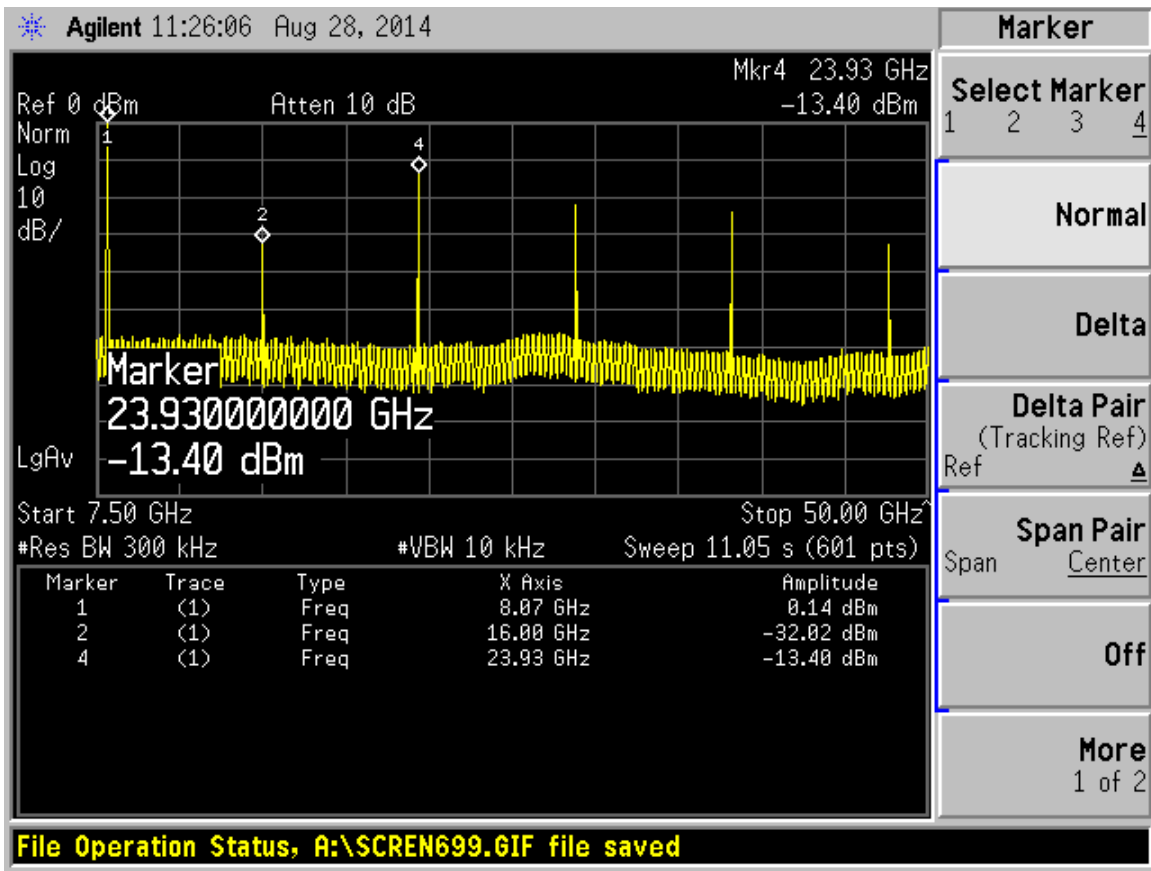


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Harmonic Rejection Plot at 8GHz Input

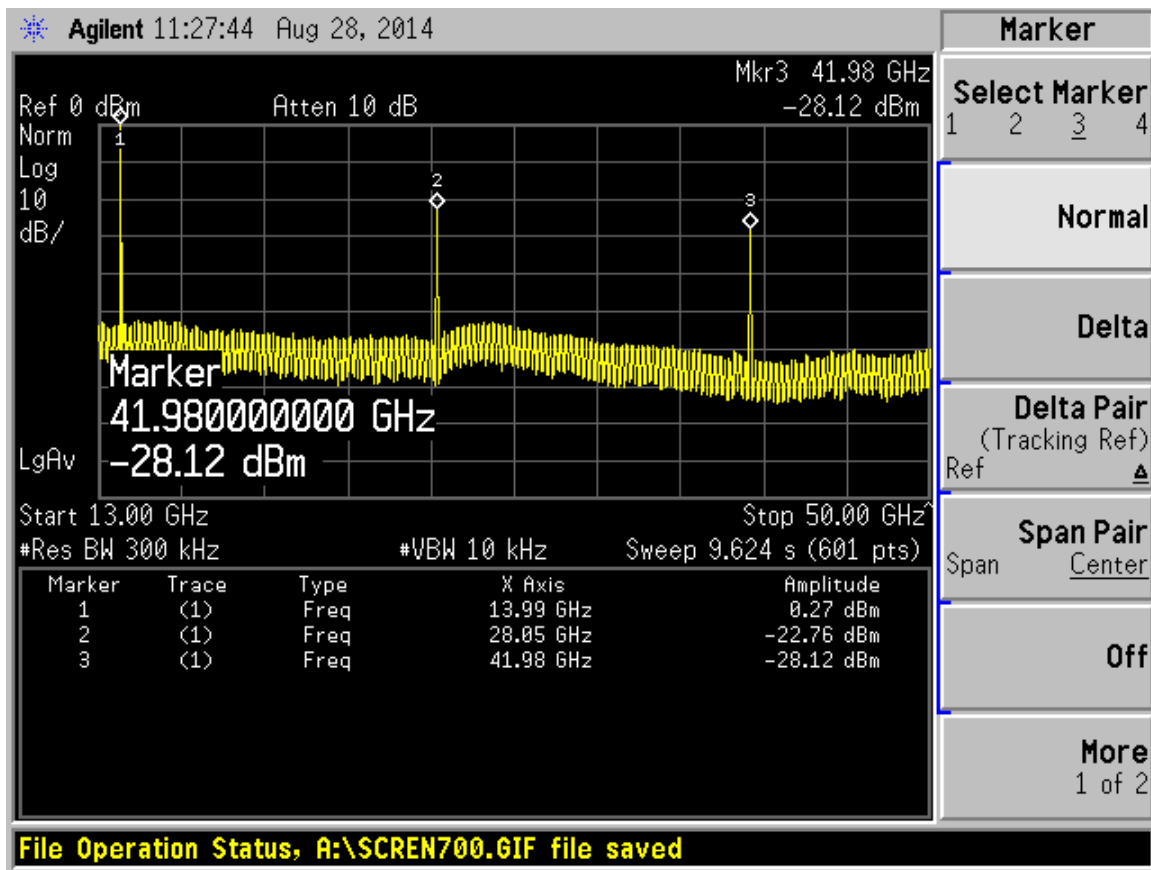


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Harmonic Rejection Plot at 14GHz Input

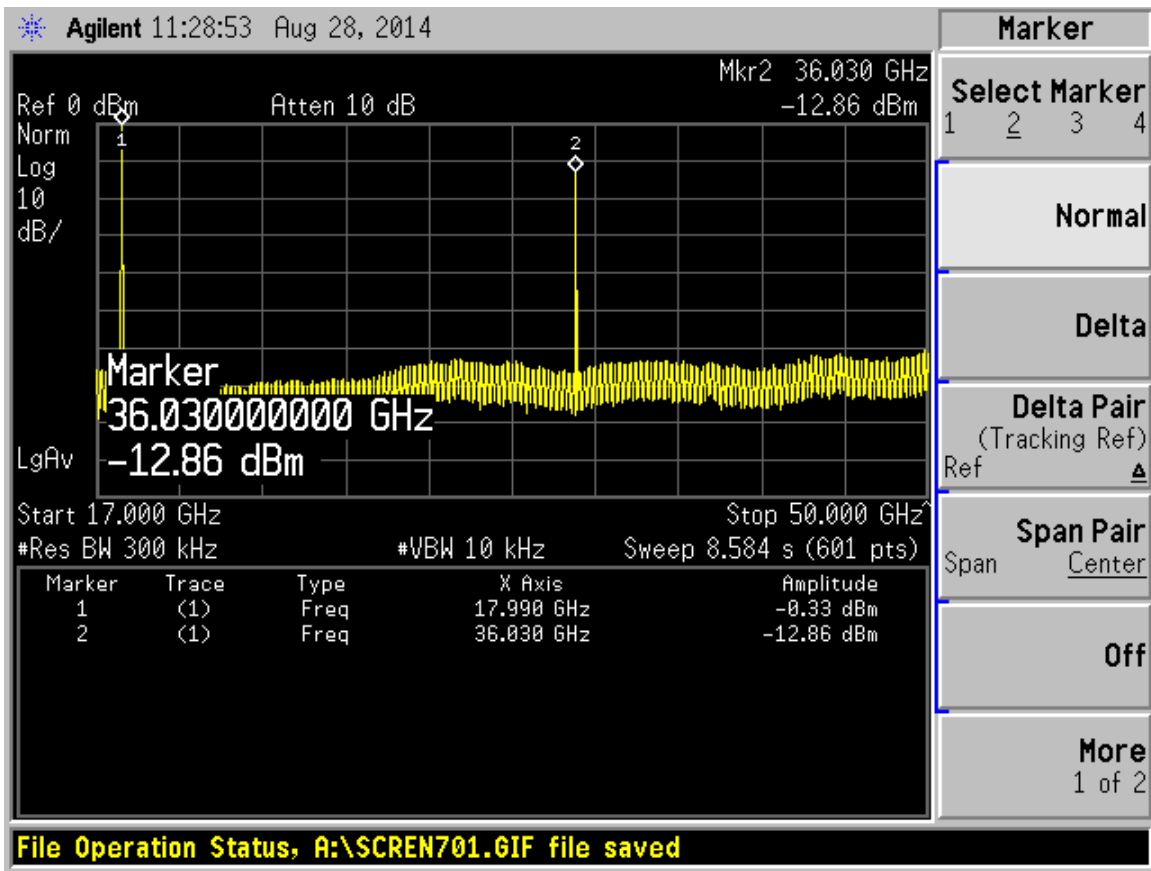


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Harmonic Rejection Plot at 18GHz Input



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