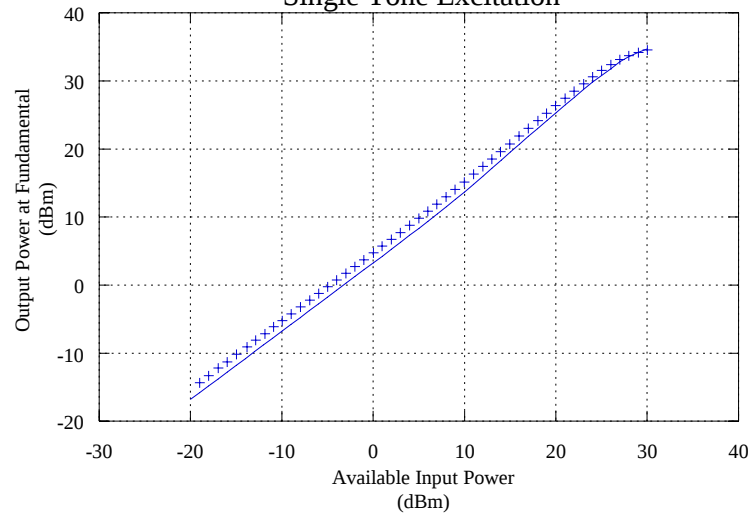
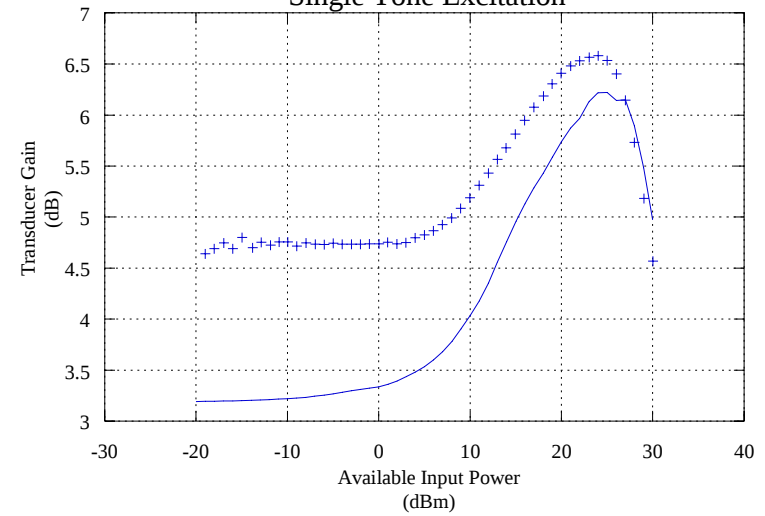


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 50 ohm Termination
 Solid: Simulated & Points: Measured

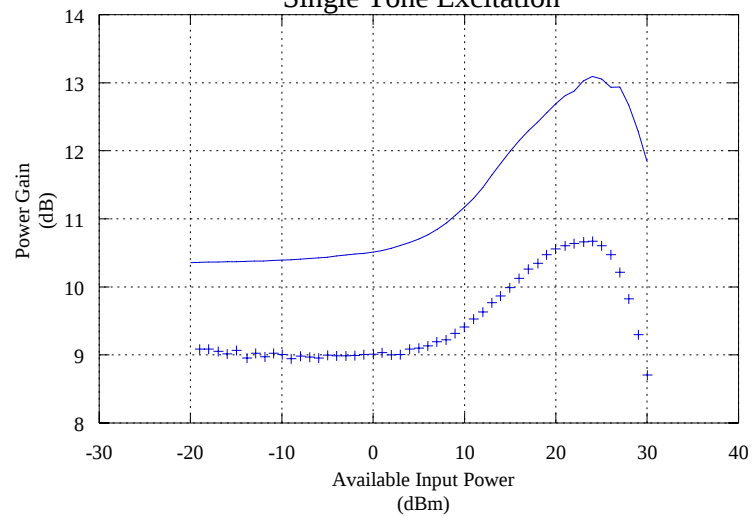
Output Power at Fundamental vs. Available Input Power
 Single Tone Excitation



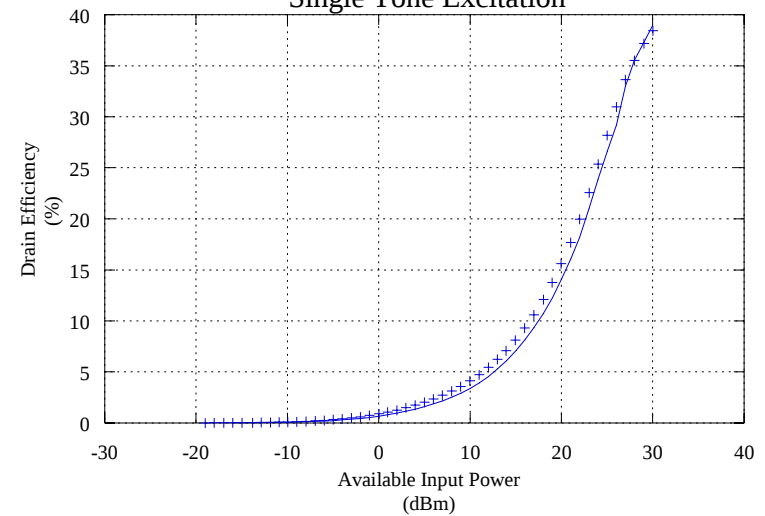
Transducer Gain vs. Available Input Power
 Single Tone Excitation



Power Gain vs. Available Input Power
 Single Tone Excitation

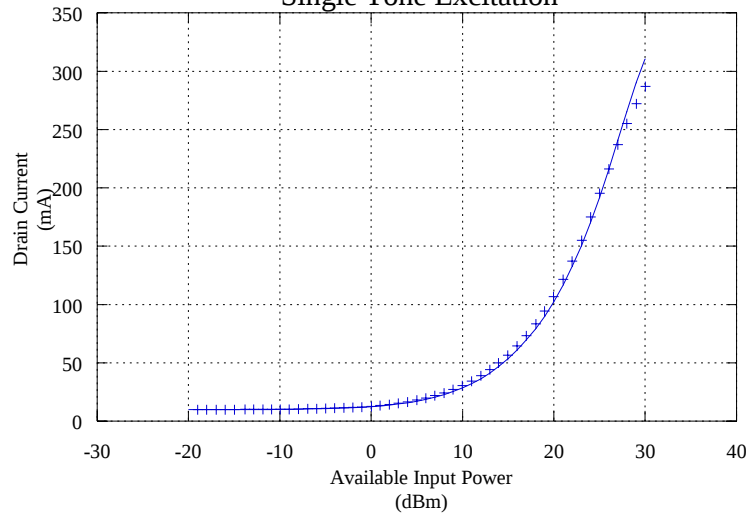


Drain Efficiency vs. Available Input Power
 Single Tone Excitation

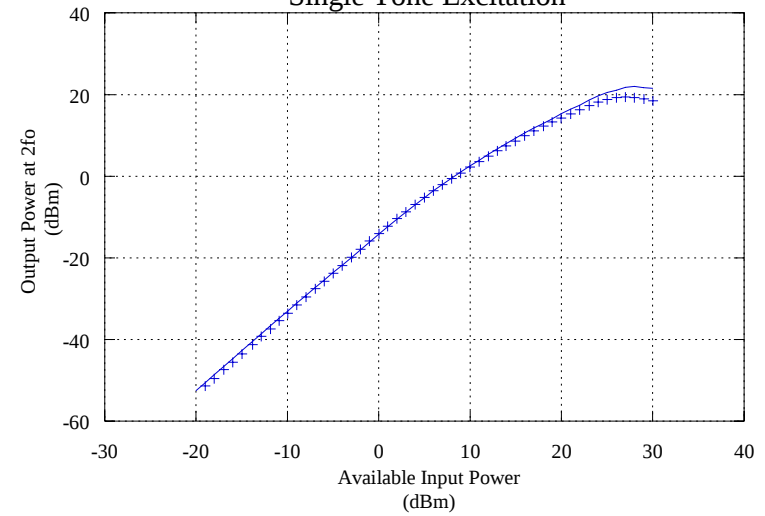


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 50 ohm Termination
 Solid: Simulated & Points: Measured

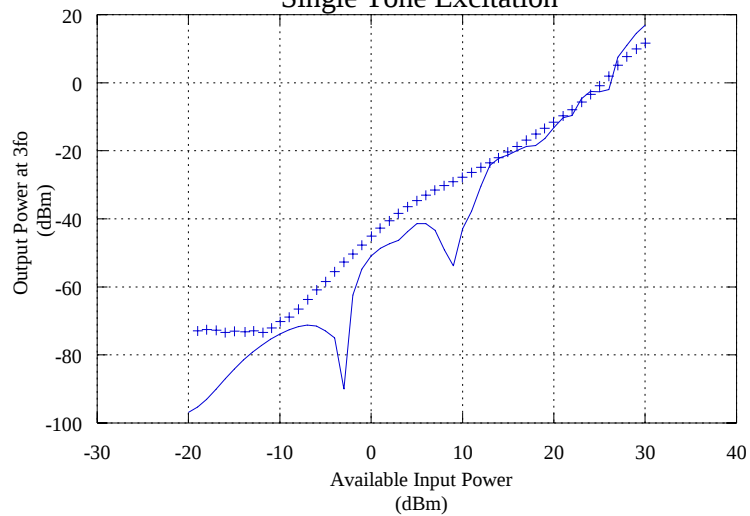
Drain Current vs. Available Input Power
 Single Tone Excitation



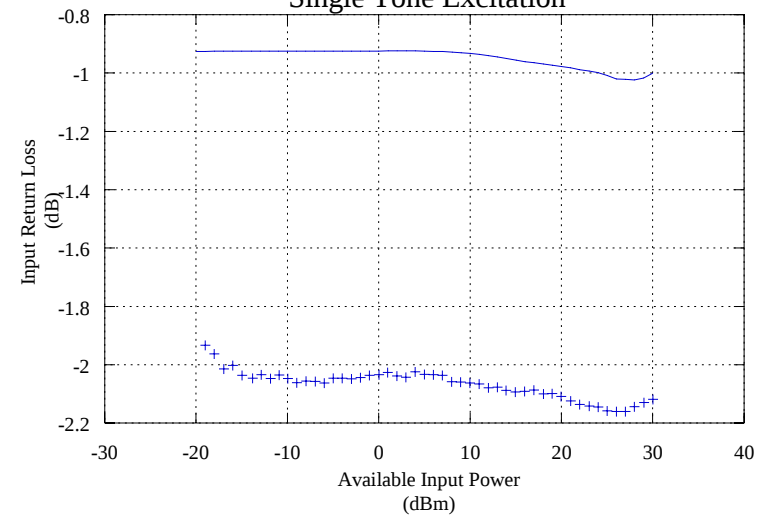
Output Power at 2fo vs. Available Input Power
 Single Tone Excitation



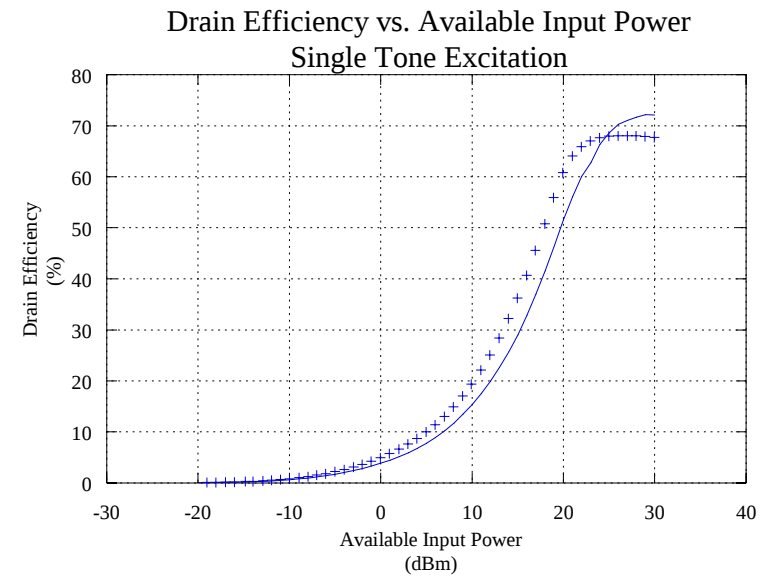
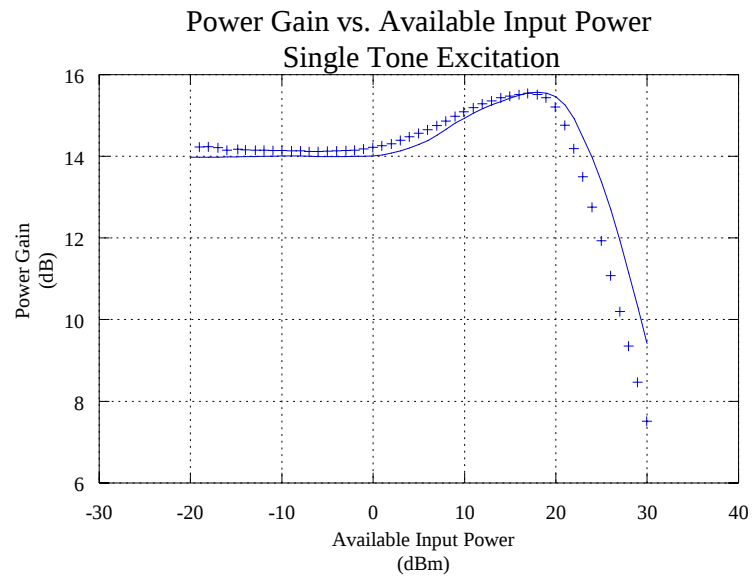
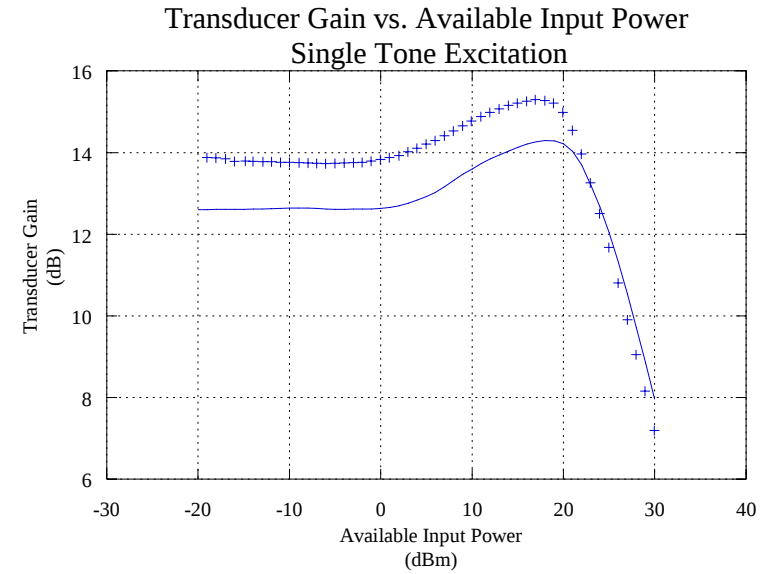
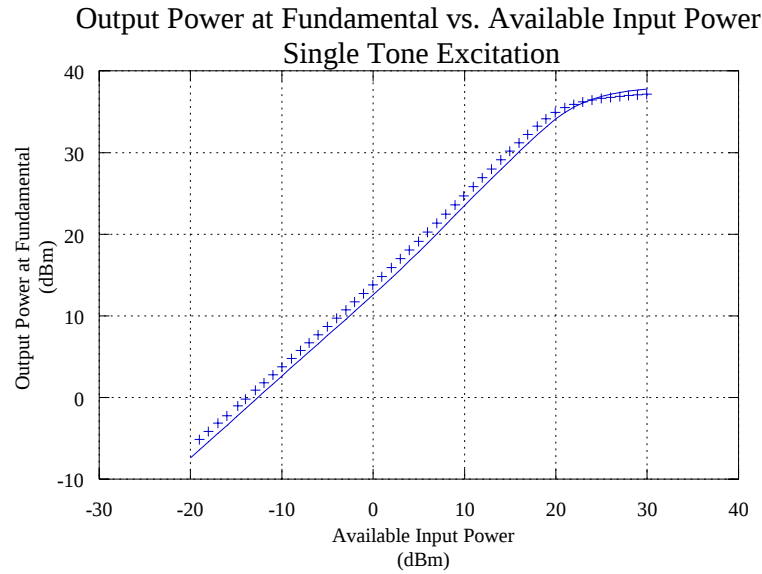
Output Power at 3fo vs. Available Input Power
 Single Tone Excitation



Input Return Loss vs. Available Input Power
 Single Tone Excitation

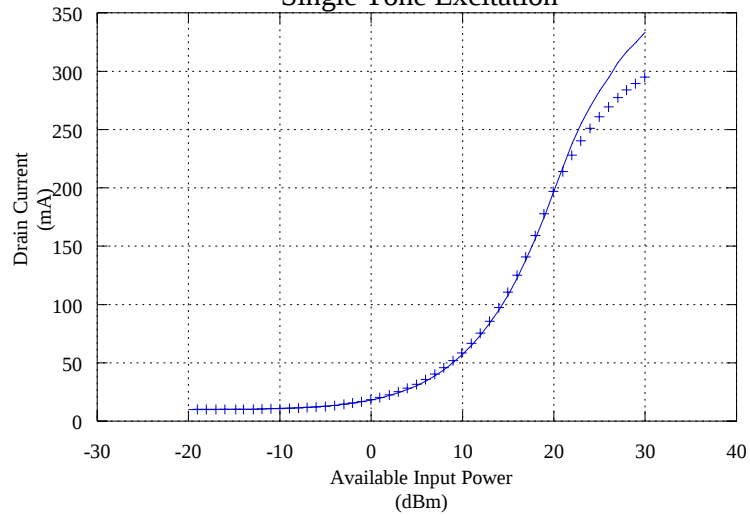


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power
 Solid: Simulated & Points: Measured

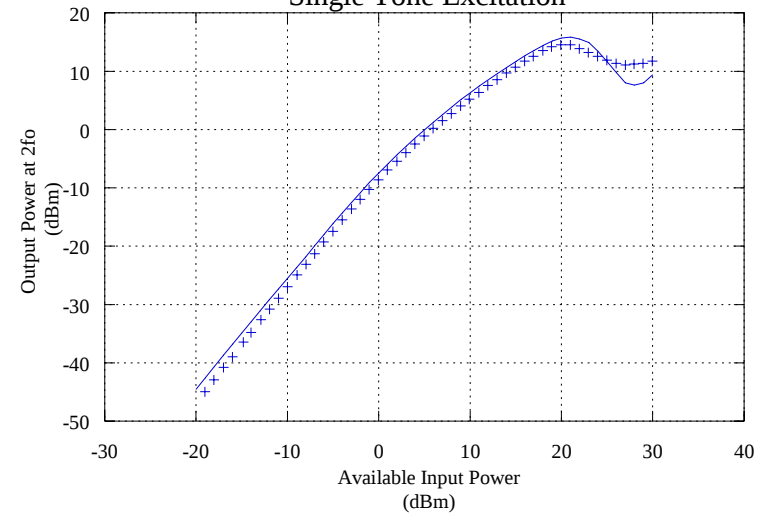


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power
 Solid: Simulated & Points: Measured

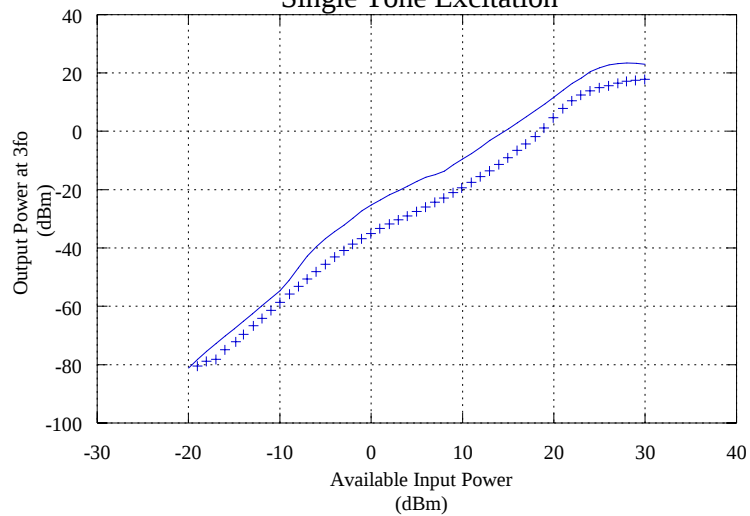
Drain Current vs. Available Input Power
 Single Tone Excitation



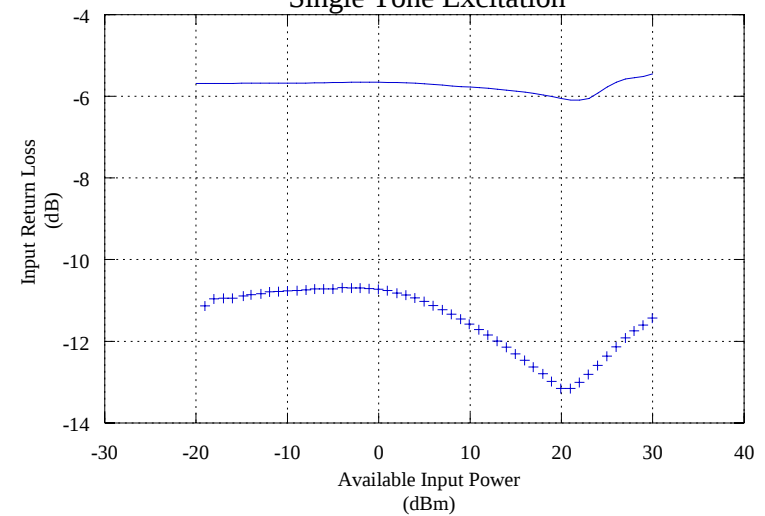
Output Power at 2fo vs. Available Input Power
 Single Tone Excitation



Output Power at 3fo vs. Available Input Power
 Single Tone Excitation

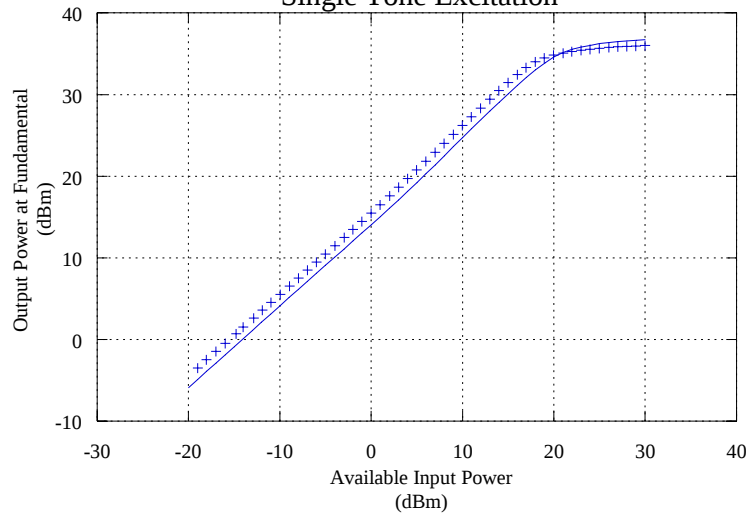


Input Return Loss vs. Available Input Power
 Single Tone Excitation

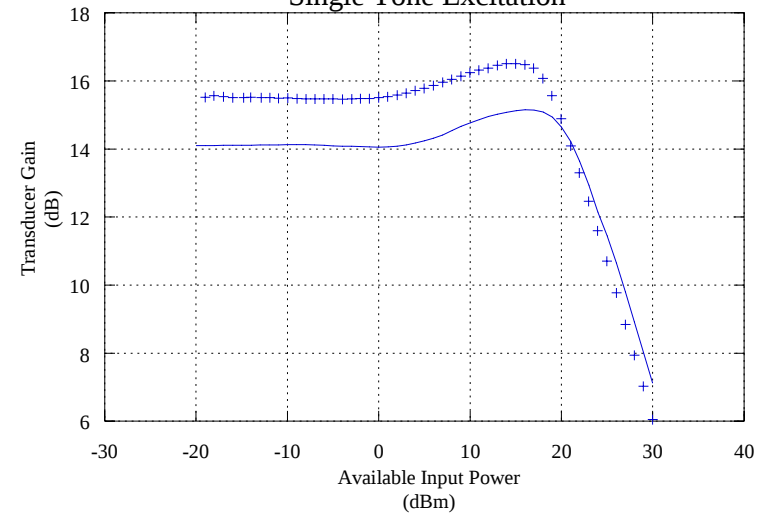


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Efficiency
 Solid: Simulated & Points: Measured

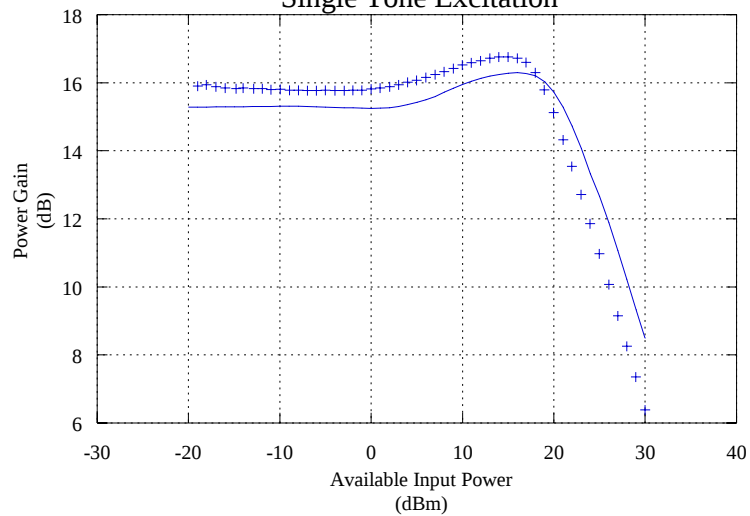
Output Power at Fundamental vs. Available Input Power
 Single Tone Excitation



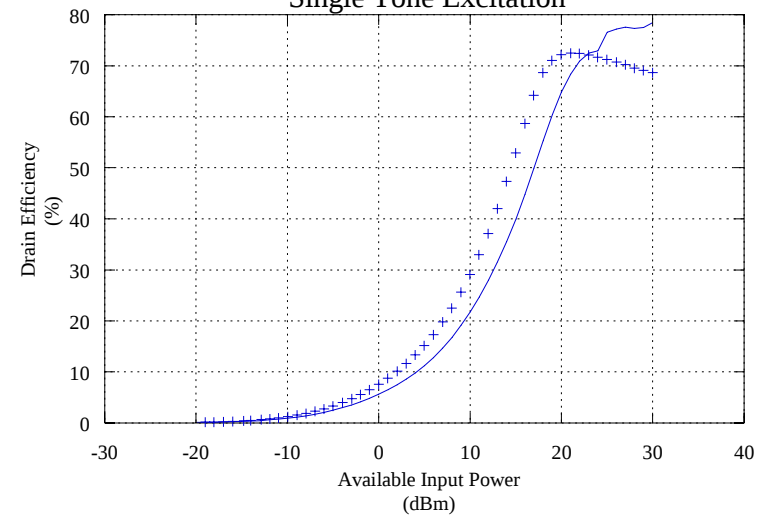
Transducer Gain vs. Available Input Power
 Single Tone Excitation



Power Gain vs. Available Input Power
 Single Tone Excitation



Drain Efficiency vs. Available Input Power
 Single Tone Excitation

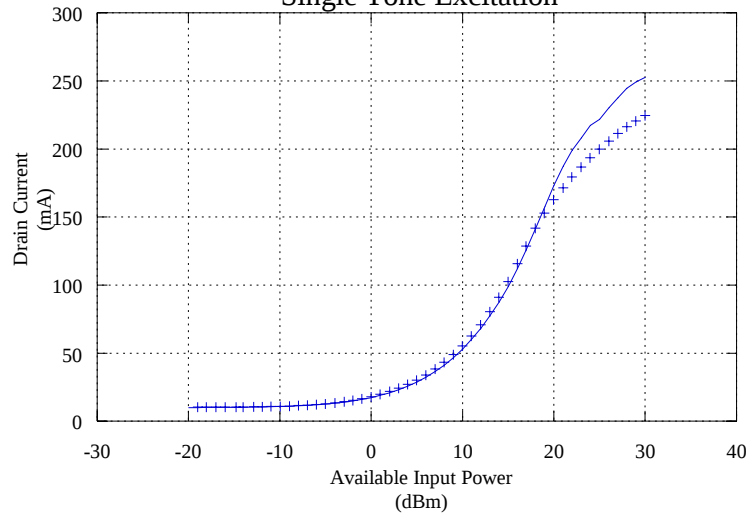




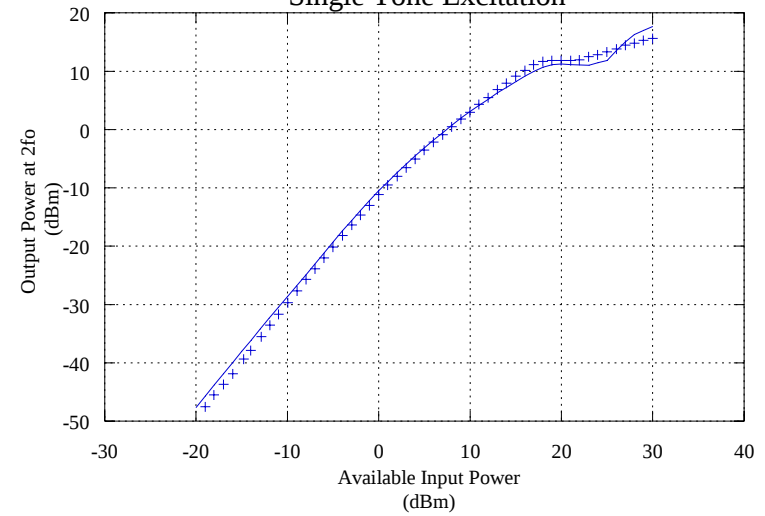
1 Block HV3 LDMOS Device
Number of fingers: 56, Periphery: 5.04 mm
Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
Tuned for Efficiency
Solid: Simulated & Points: Measured



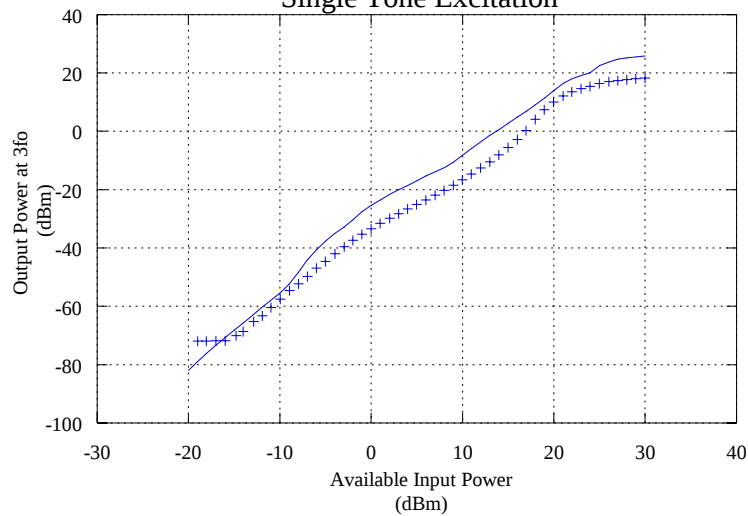
Drain Current vs. Available Input Power
Single Tone Excitation



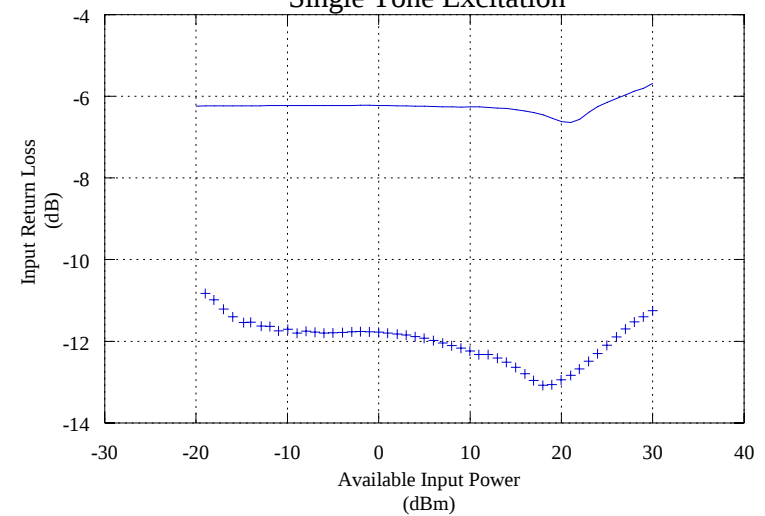
Output Power at 2fo vs. Available Input Power
Single Tone Excitation



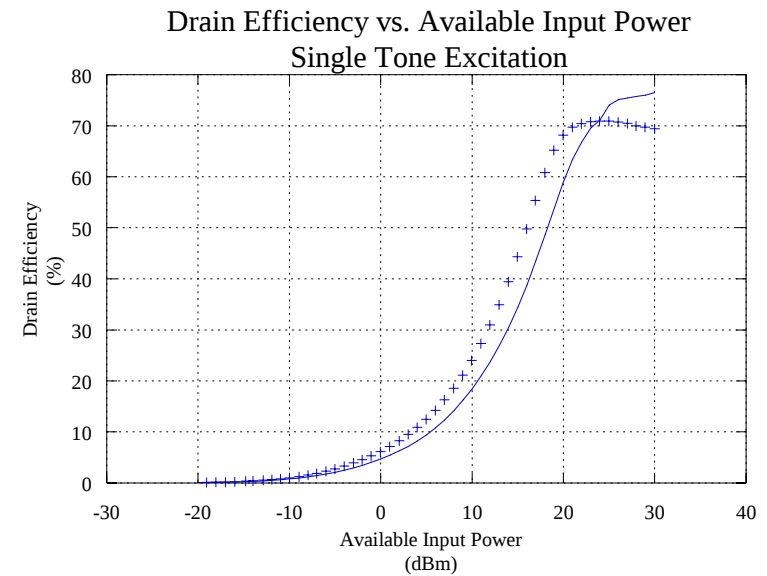
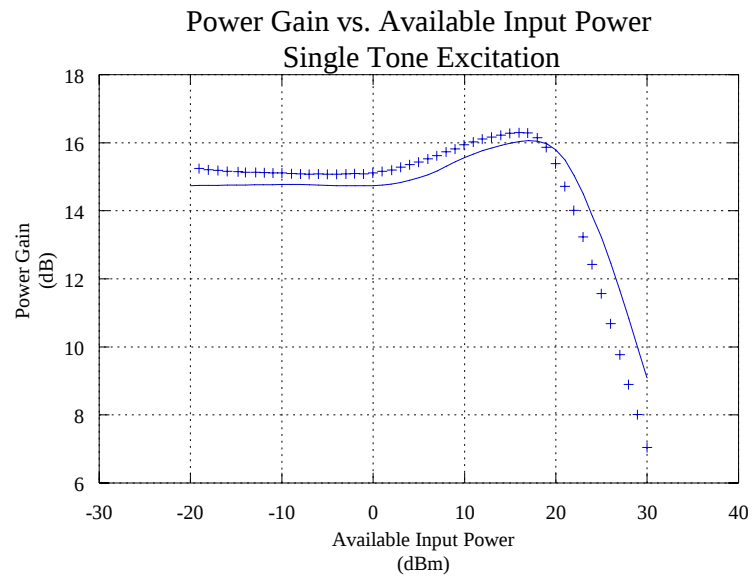
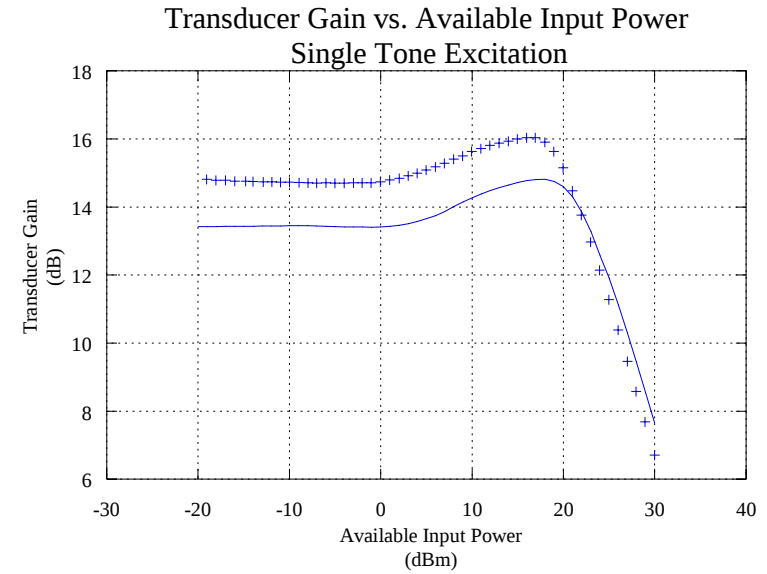
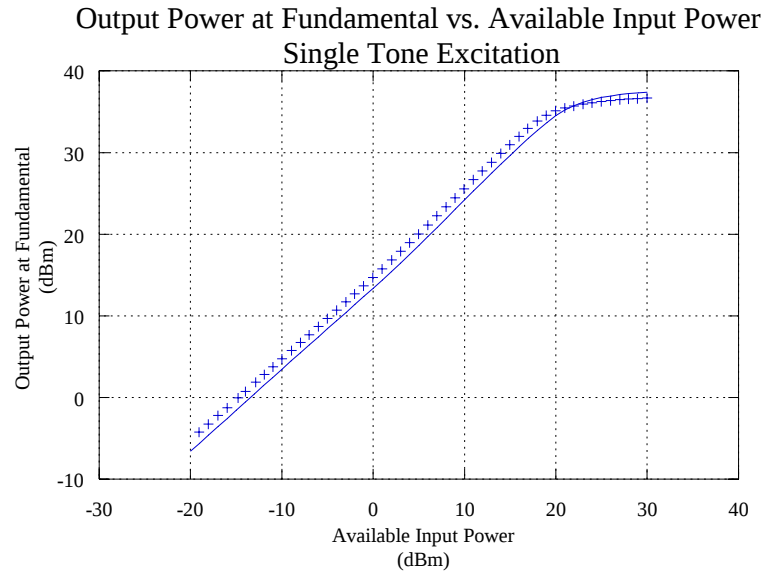
Output Power at 3fo vs. Available Input Power
Single Tone Excitation



Input Return Loss vs. Available Input Power
Single Tone Excitation

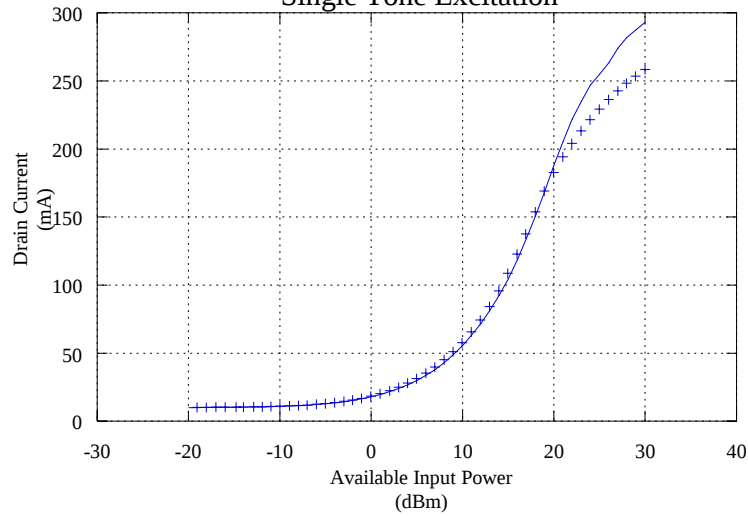


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power & Efficiency
 Solid: Simulated & Points: Measured

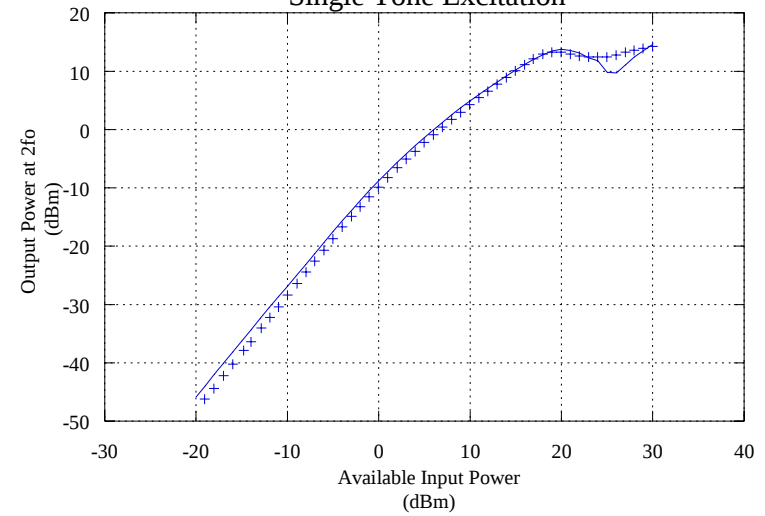


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power & Efficiency
 Solid: Simulated & Points: Measured

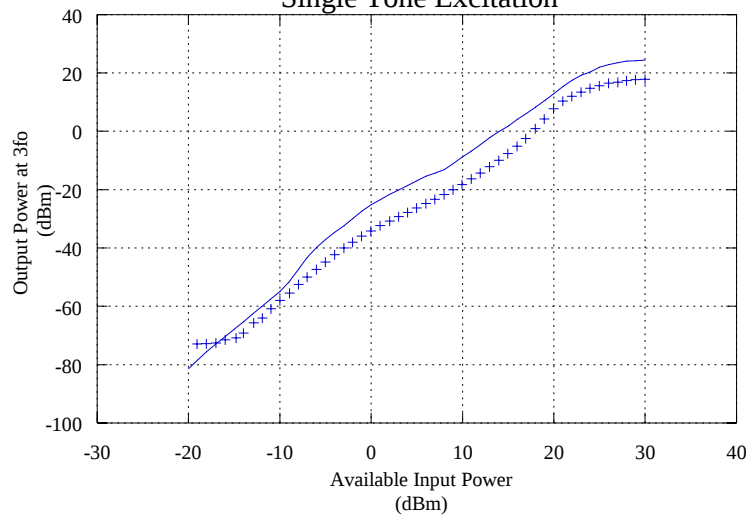
Drain Current vs. Available Input Power
 Single Tone Excitation



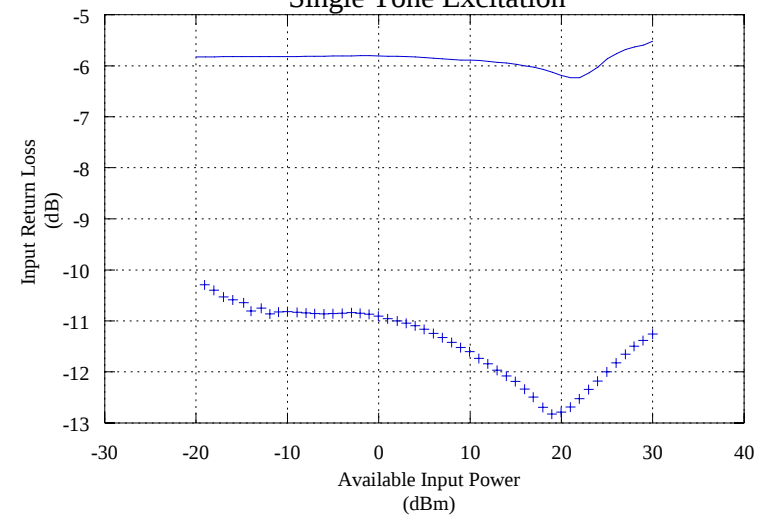
Output Power at 2fo vs. Available Input Power
 Single Tone Excitation



Output Power at 3fo vs. Available Input Power
 Single Tone Excitation

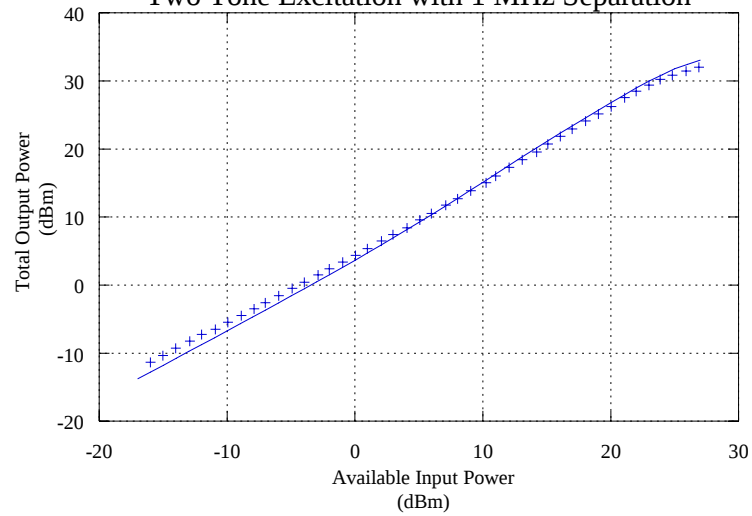


Input Return Loss vs. Available Input Power
 Single Tone Excitation

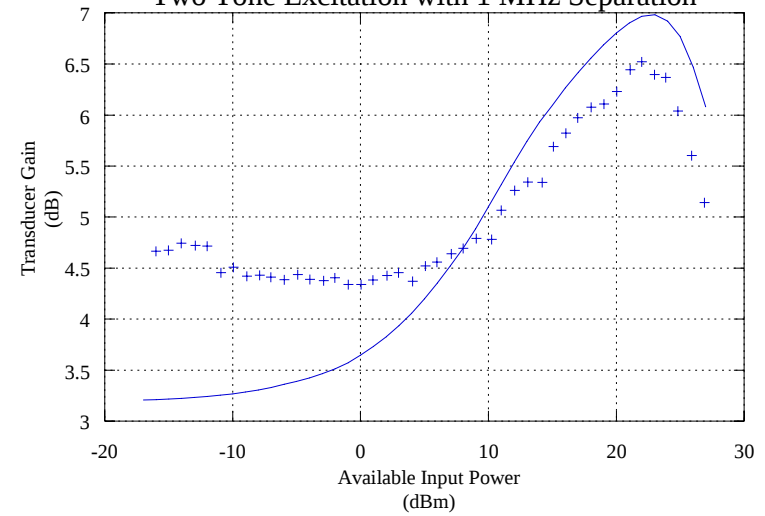


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 50 ohm Termination
 Solid:Simulated & Points:Measured

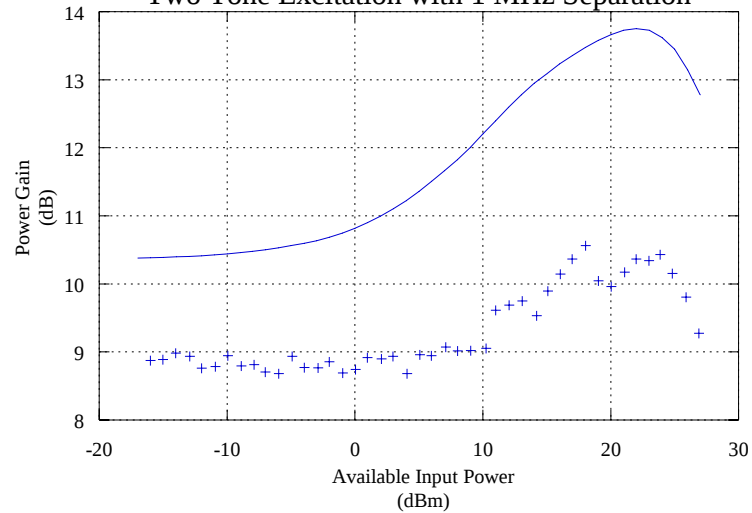
Total Output Power vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



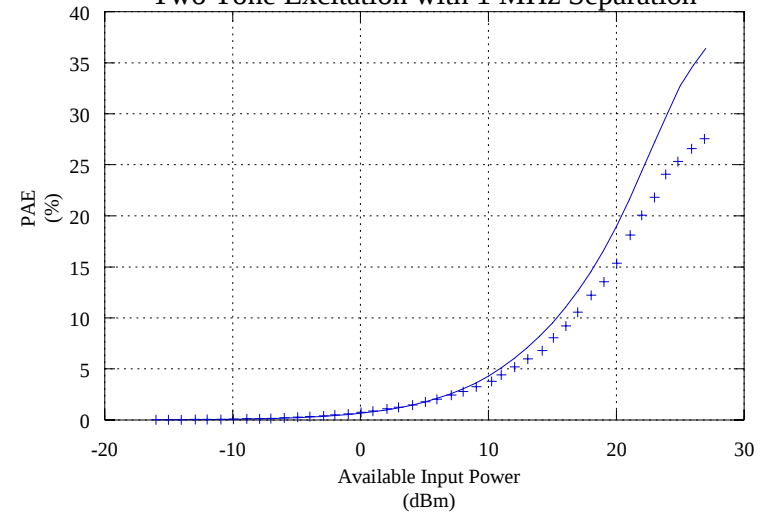
Transducer Gain vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Power Gain vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

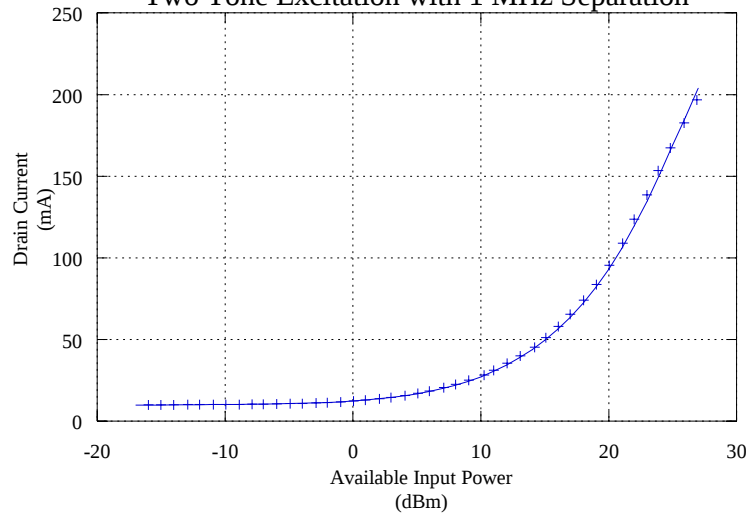


PAE vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

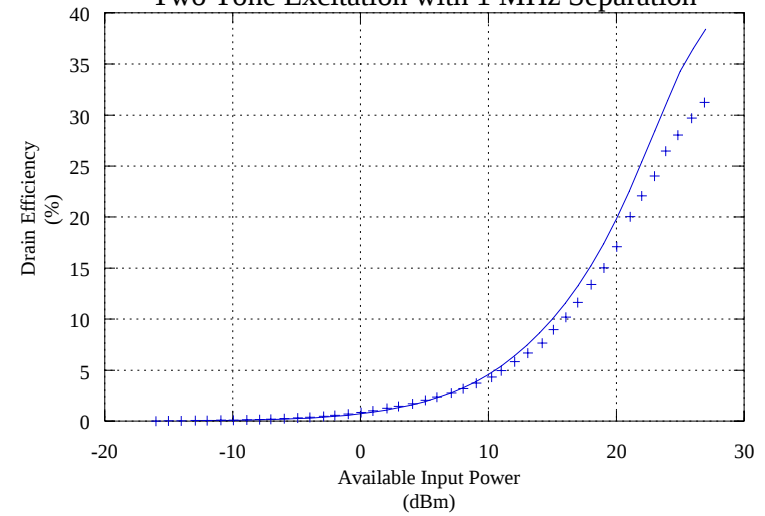


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 50 ohm Termination
 Solid: Simulated & Points: Measured

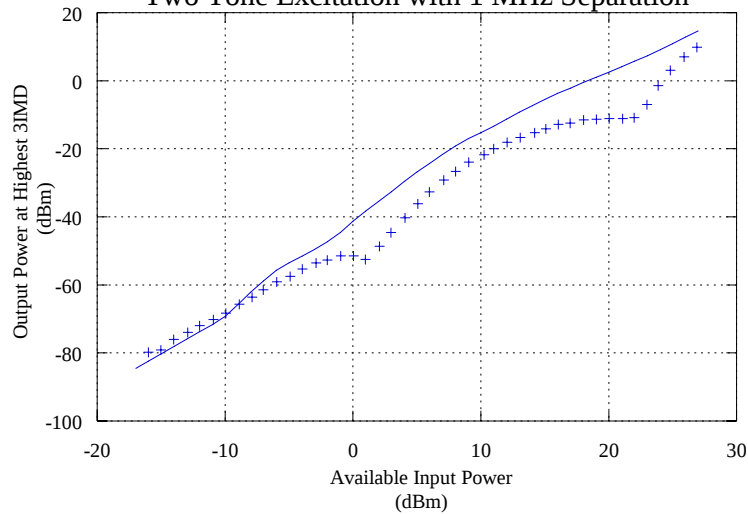
Drain Current vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



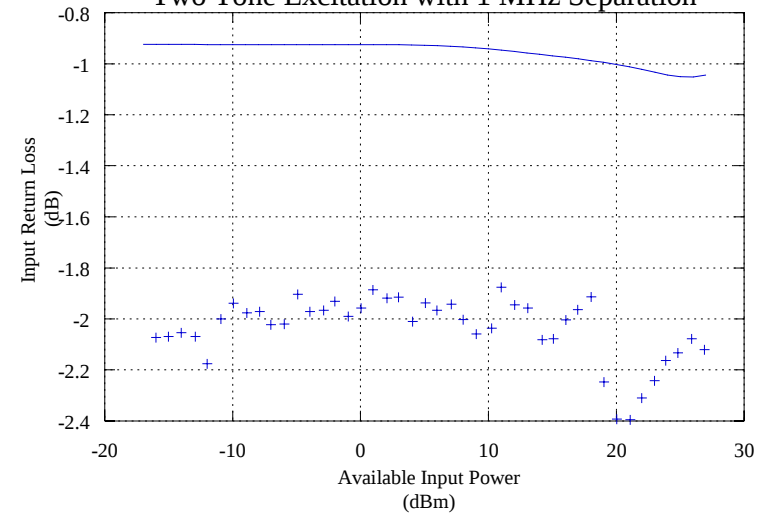
Drain Efficiency vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Output Power at Highest 3IMD vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

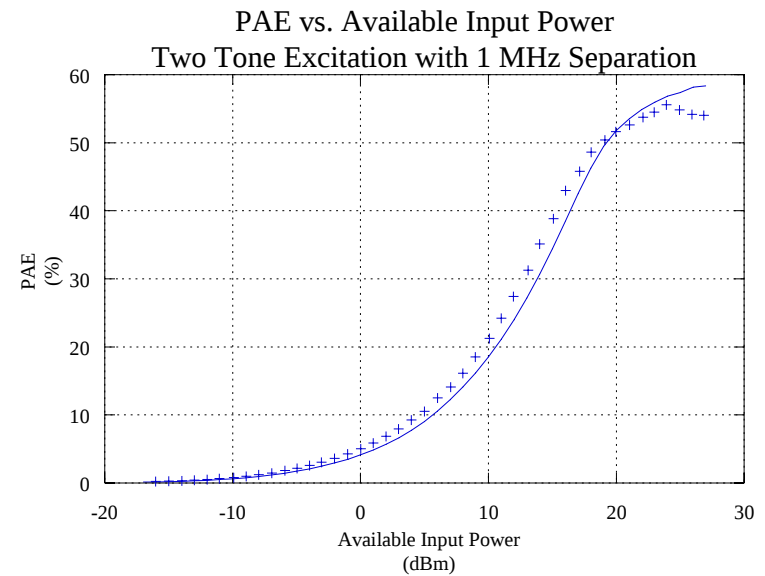
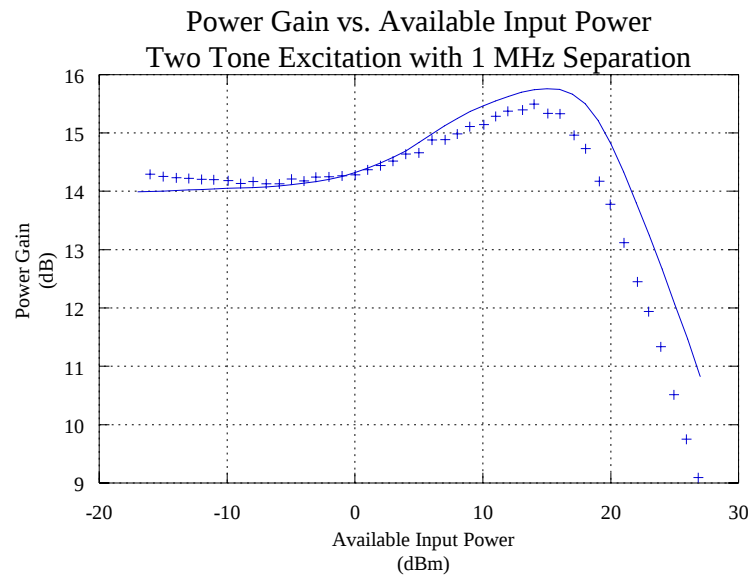
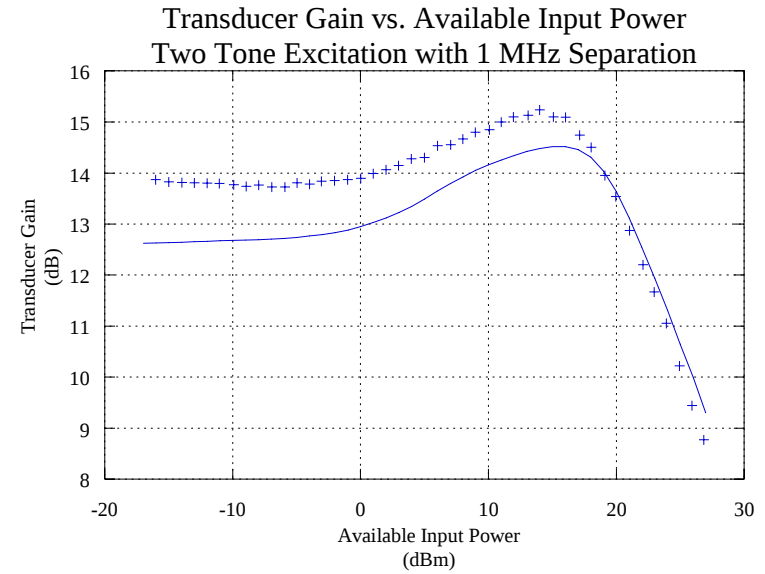
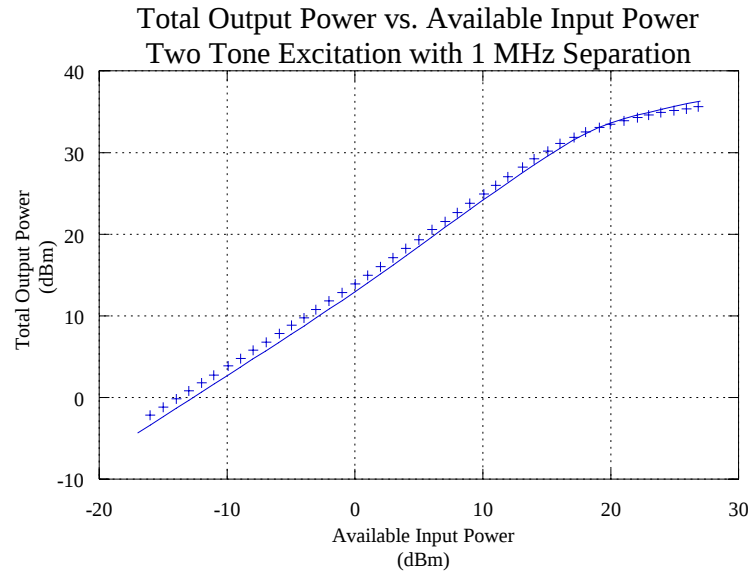


Input Return Loss vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



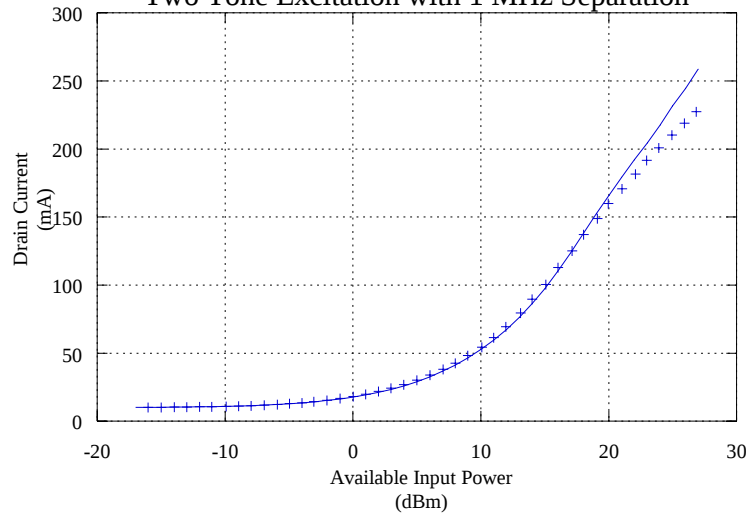
1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm

Tuned for Power
 Solid: Simulated & Points: Measured

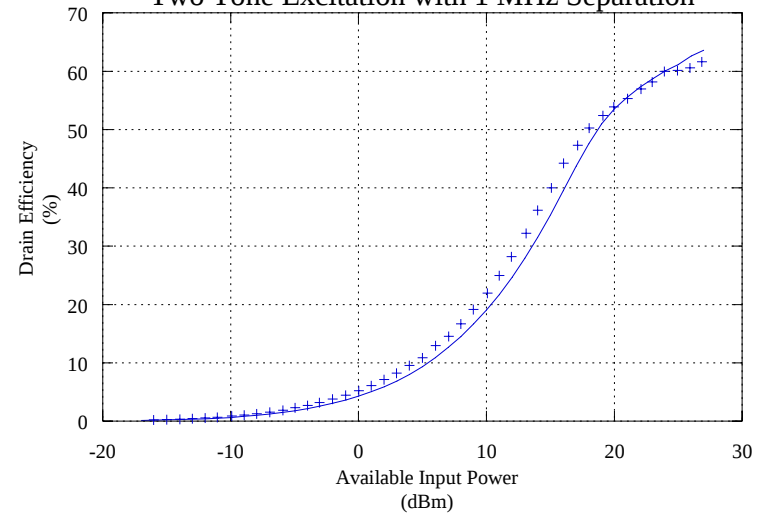


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power
 Solid: Simulated & Points: Measured

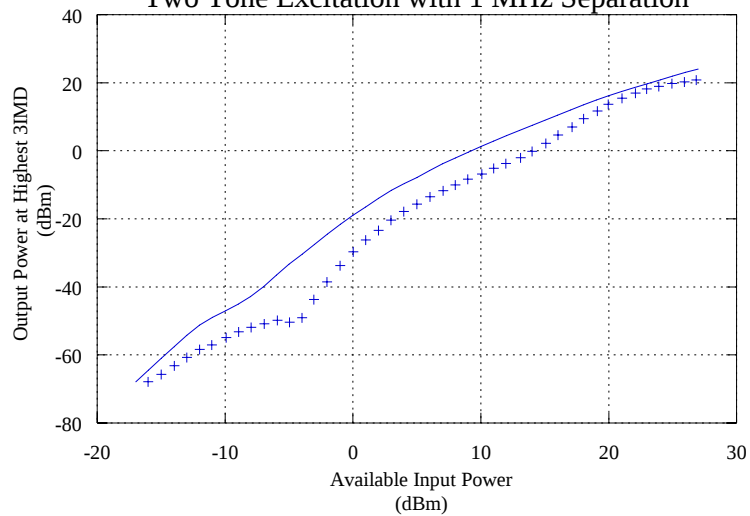
Drain Current vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



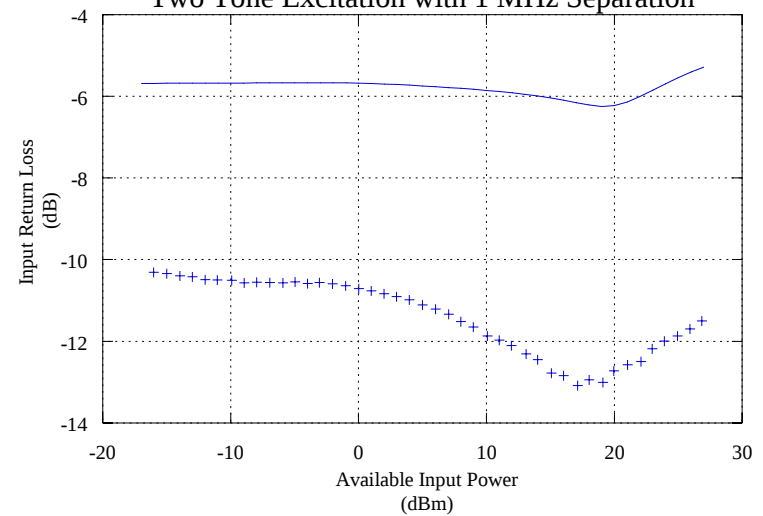
Drain Efficiency vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Output Power at Highest 3IMD vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

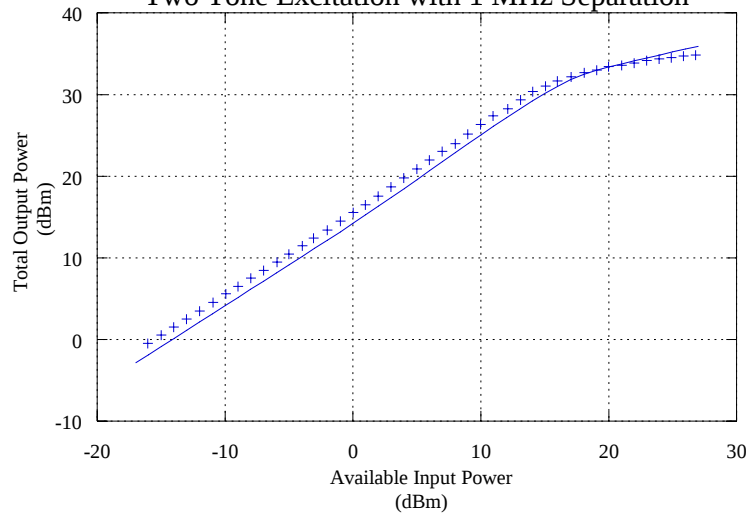


Input Return Loss vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

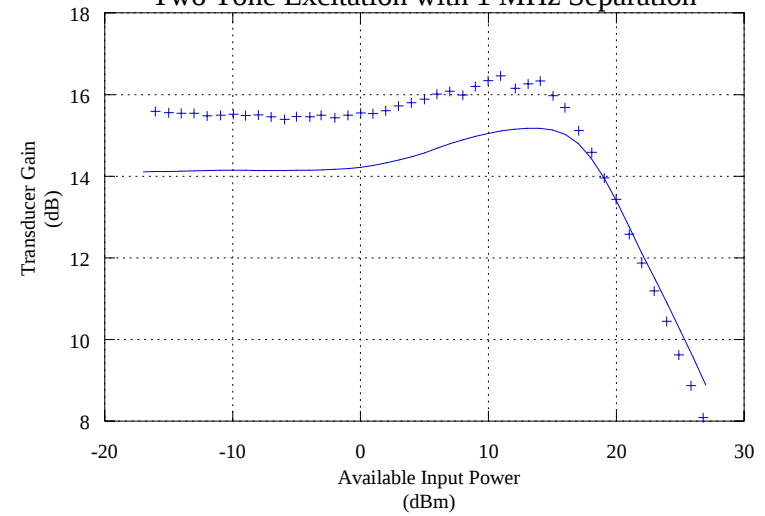


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Efficiency
 Solid: Simulated & Points: Measured

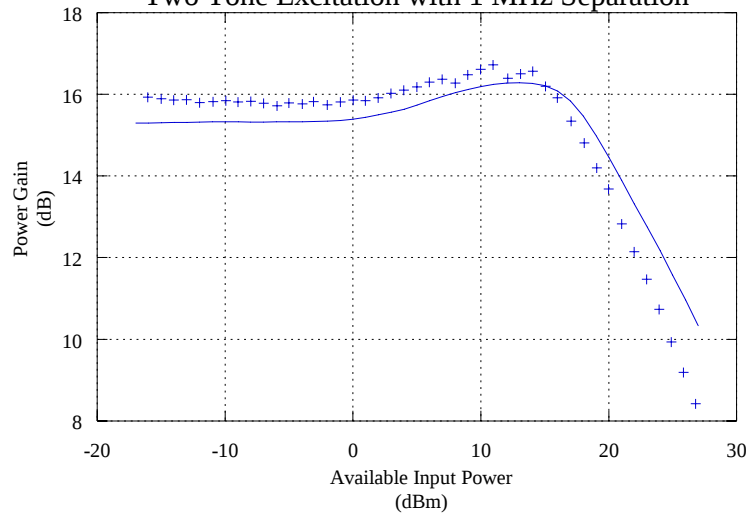
Total Output Power vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



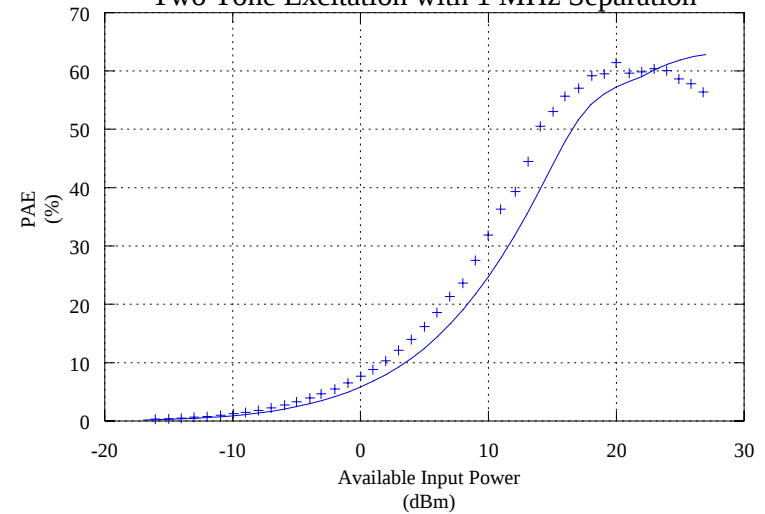
Transducer Gain vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Power Gain vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

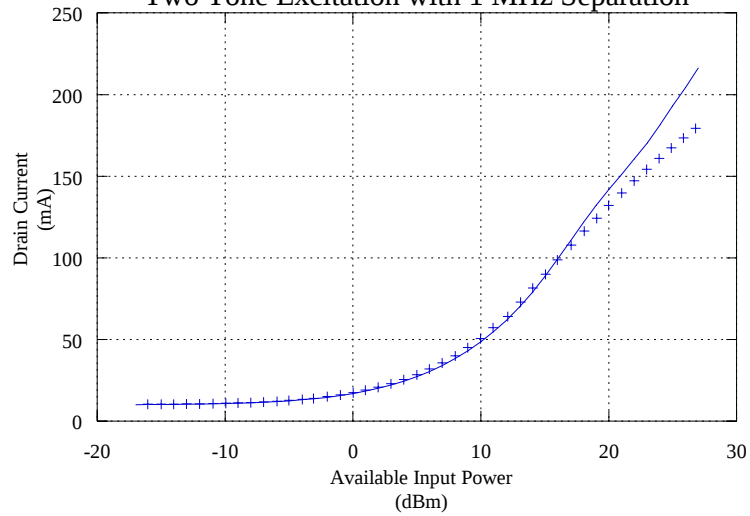


PAE vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

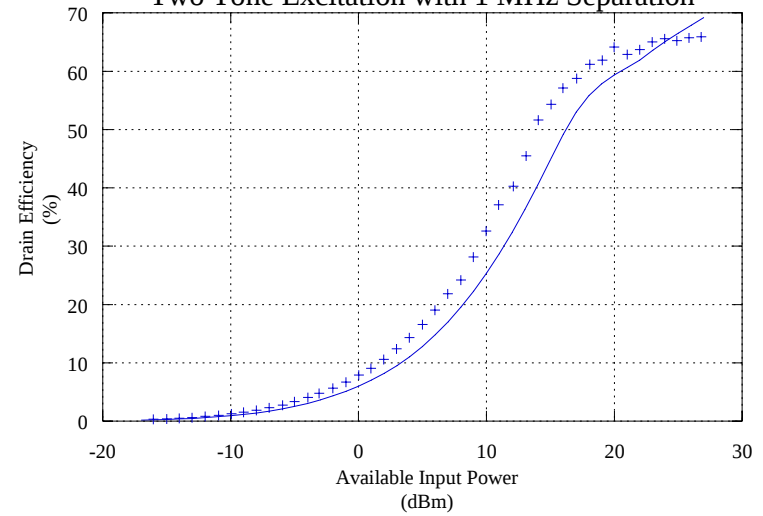


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Efficiency
 Solid: Simulated & Points: Measured

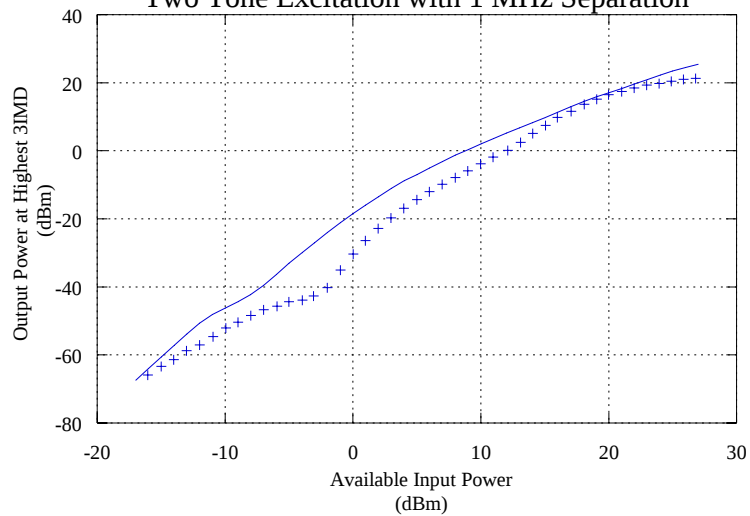
Drain Current vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



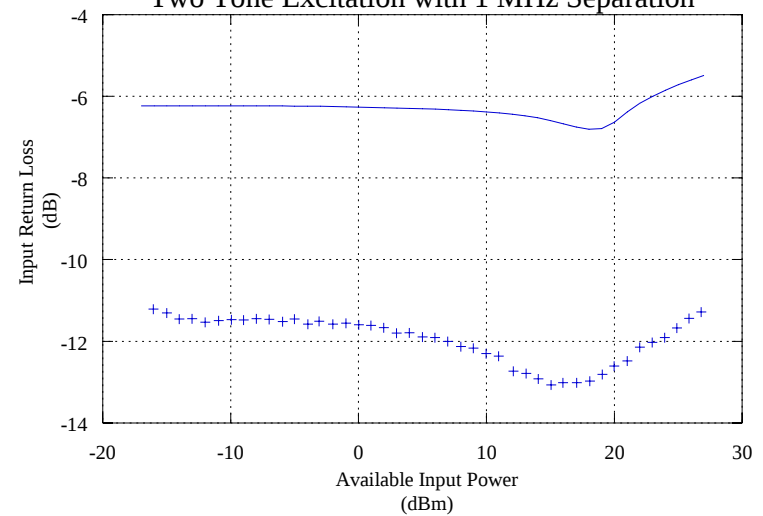
Drain Efficiency vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



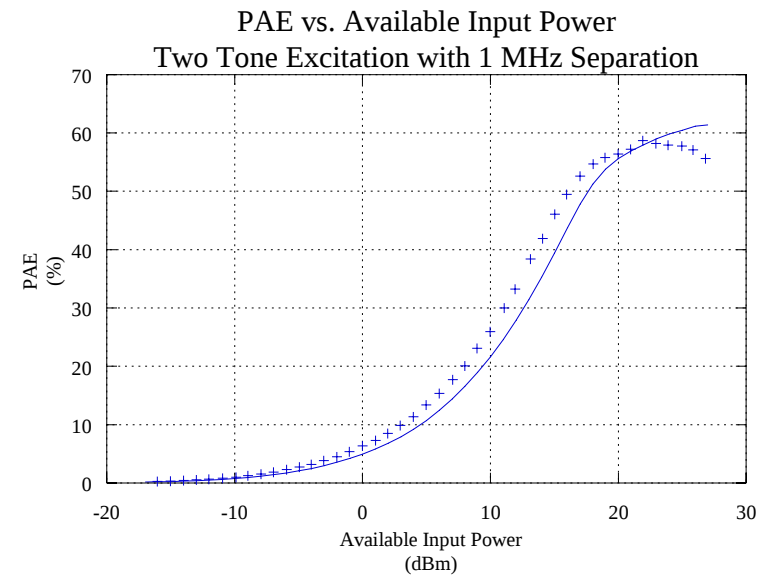
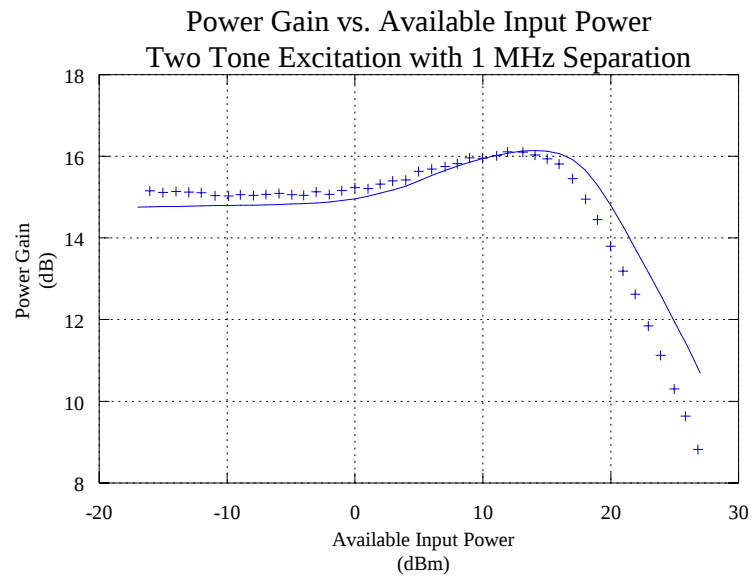
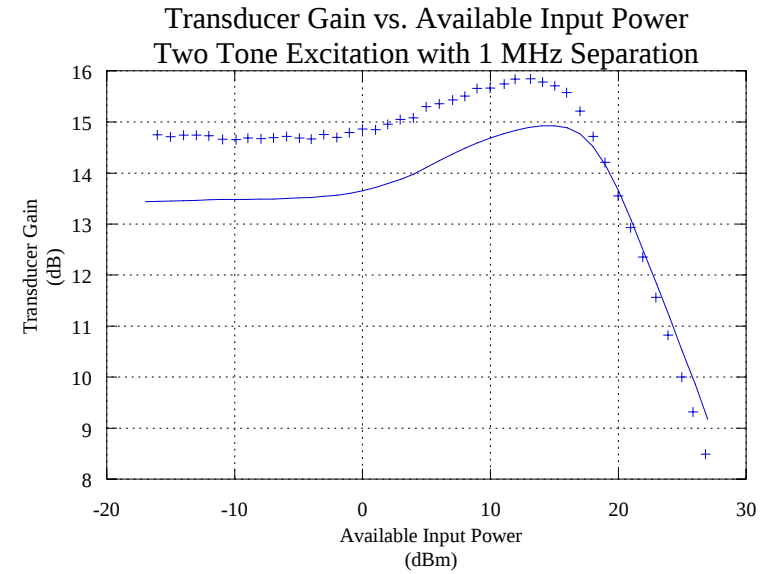
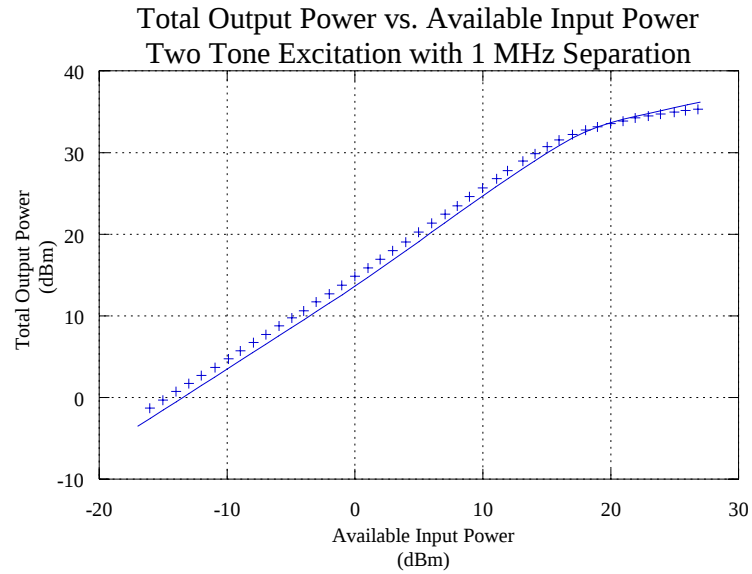
Output Power at Highest 3IMD vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Input Return Loss vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation

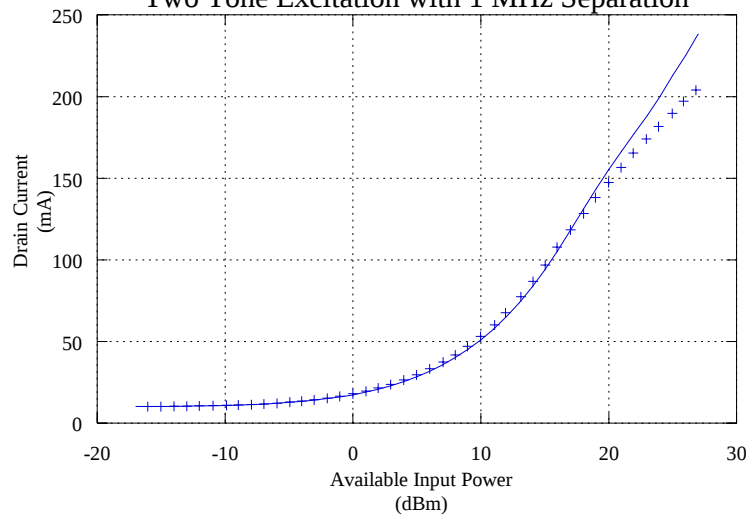


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power & Efficiency
 Solid: Simulated & Points: Measured

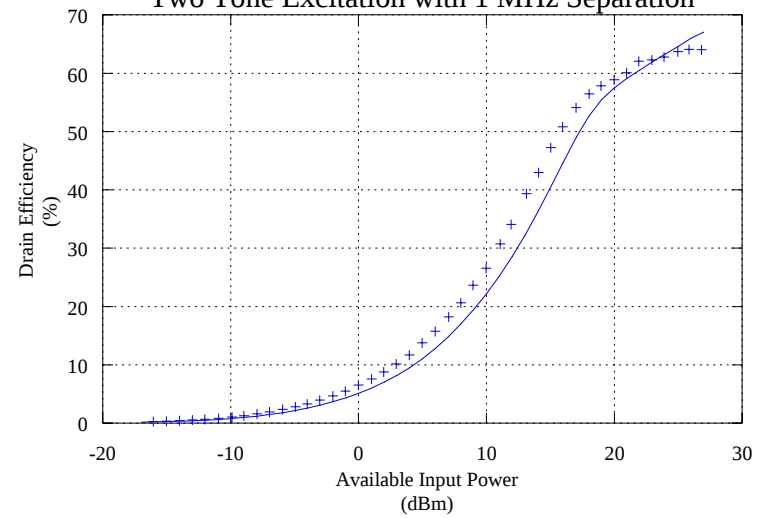


1 Block HV3 LDMOS Device
 Number of fingers: 56, Periphery: 5.04 mm
 Frequency: 2 GHz, $V_{DS}=26$ v & $I_{DS}=2.0$ mA/mm
 Tuned for Power & Efficiency
 Solid: Simulated & Points: Measured

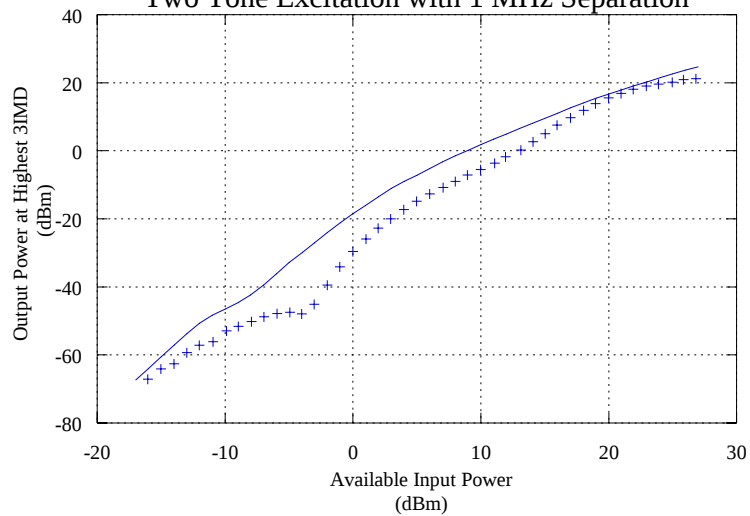
Drain Current vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Drain Efficiency vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Output Power at Highest 3IMD vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Input Return Loss vs. Available Input Power
 Two Tone Excitation with 1 MHz Separation



Motorola reserves the right to make changes without further notice to any products herein. Motorola makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Motorola assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. "Typical" parameters which may be provided in Motorola data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. Motorola does not convey any license under its patent rights nor the rights of others. Motorola products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the Motorola product could create a situation where personal injury or death may occur. Should Buyer purchase or use Motorola products for any such unintended or unauthorized application, Buyer shall indemnify and hold Motorola and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Motorola was negligent regarding the design or manufacture of the part. Motorola and  are registered trademarks of Motorola, Inc. Motorola, Inc. is an Equal Opportunity/Affirmative Action Employer.

Mfax is a trademark of Motorola, Inc.

How to reach us:

USA/EUROPE/Locations Not Listed: Motorola Literature Distribution:
P.O. Box 5405, Denver, Colorado 80217. 1-303-675-2140 or 1-800-441-2447

JAPAN: Nippon Motorola Ltd.: SPD, Strategic Planning Office, 141,
4-32-1 Nishi-Gotanda, Shagawa-ku, Tokyo, Japan. 03-5487-8488

Customer Focus Center: 1-800-521-8274

Mfax™: RMFAX0@email.sps.mot.com— TOUCHTONE 1-602-244-6609
Motorola Fax Back System — US & Canada ONLY 1-800-774-1848
— <http://sps.motorola.com/mfax/>

ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.: 8B Tai Ping Industrial Park,
51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852-26629298

HOME PAGE: <http://motorola.com/sps/>



MOTOROLA