

TB262

GP3441

Frequency: 1000 - 2500 MHz

Pout = 50W

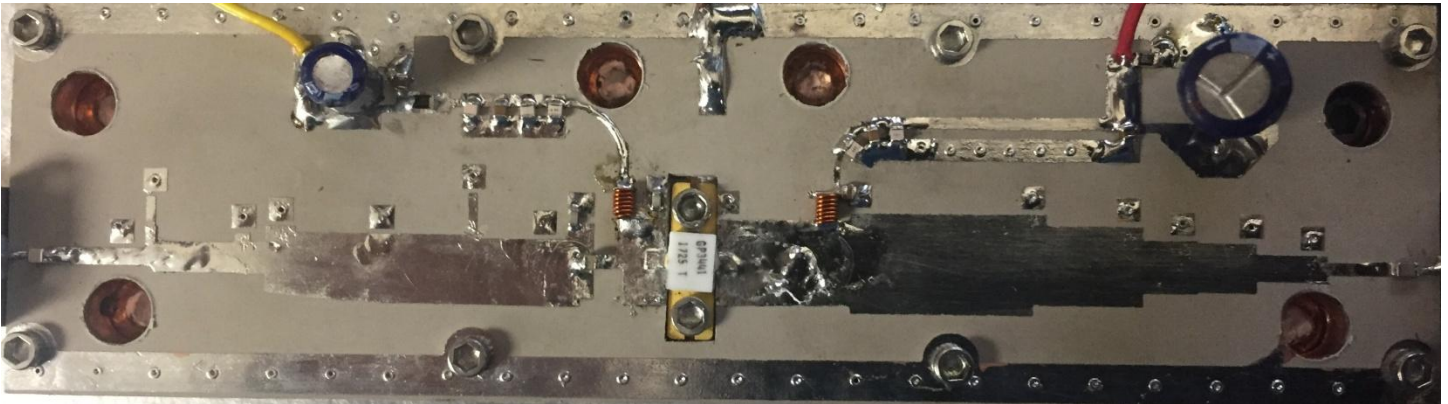
Gain = 13.5 dB +/- 1.7 dB

Vds = 48 VDC

Vgs = -2.4 VDC

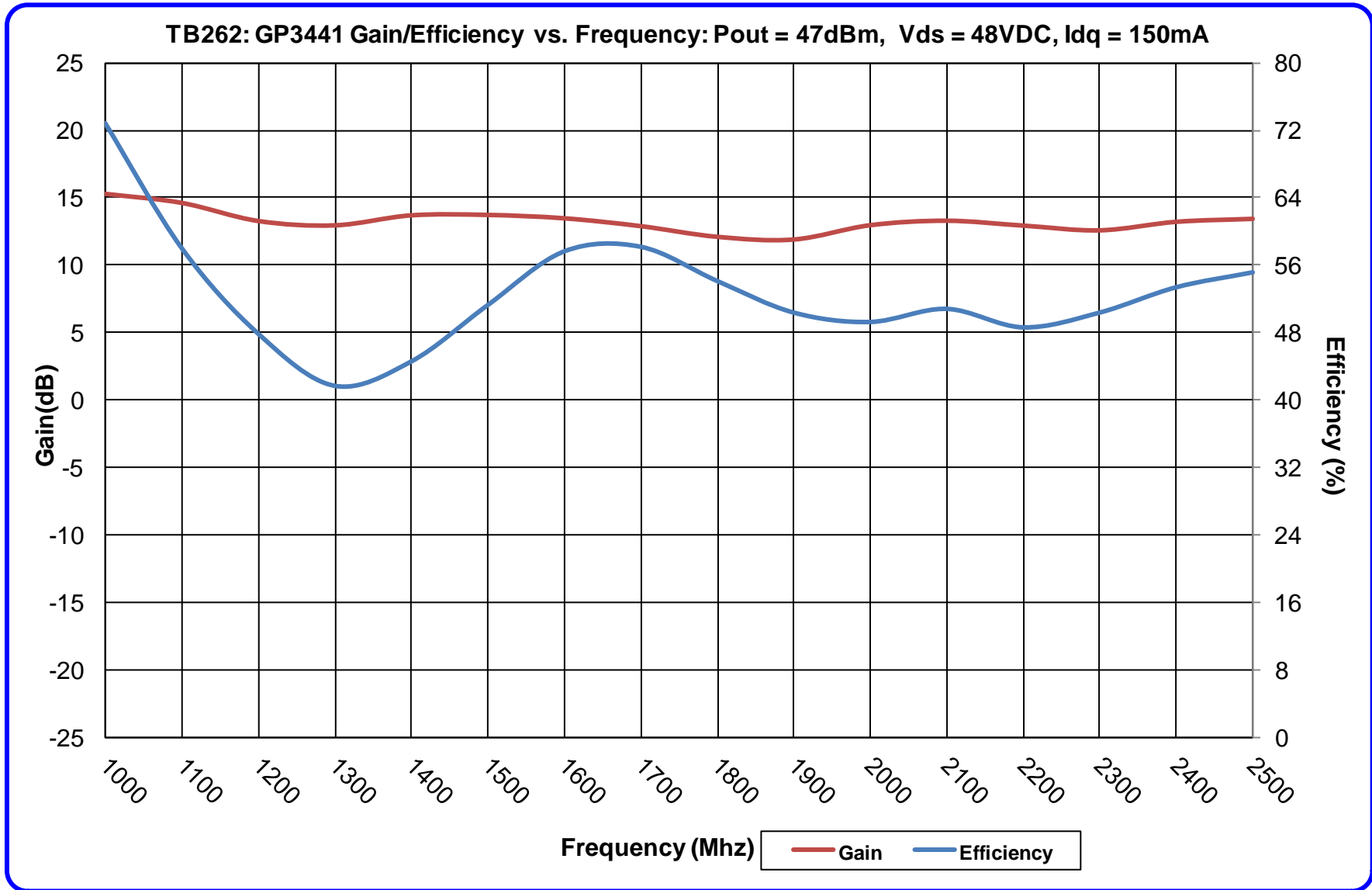
Idq = 150mA

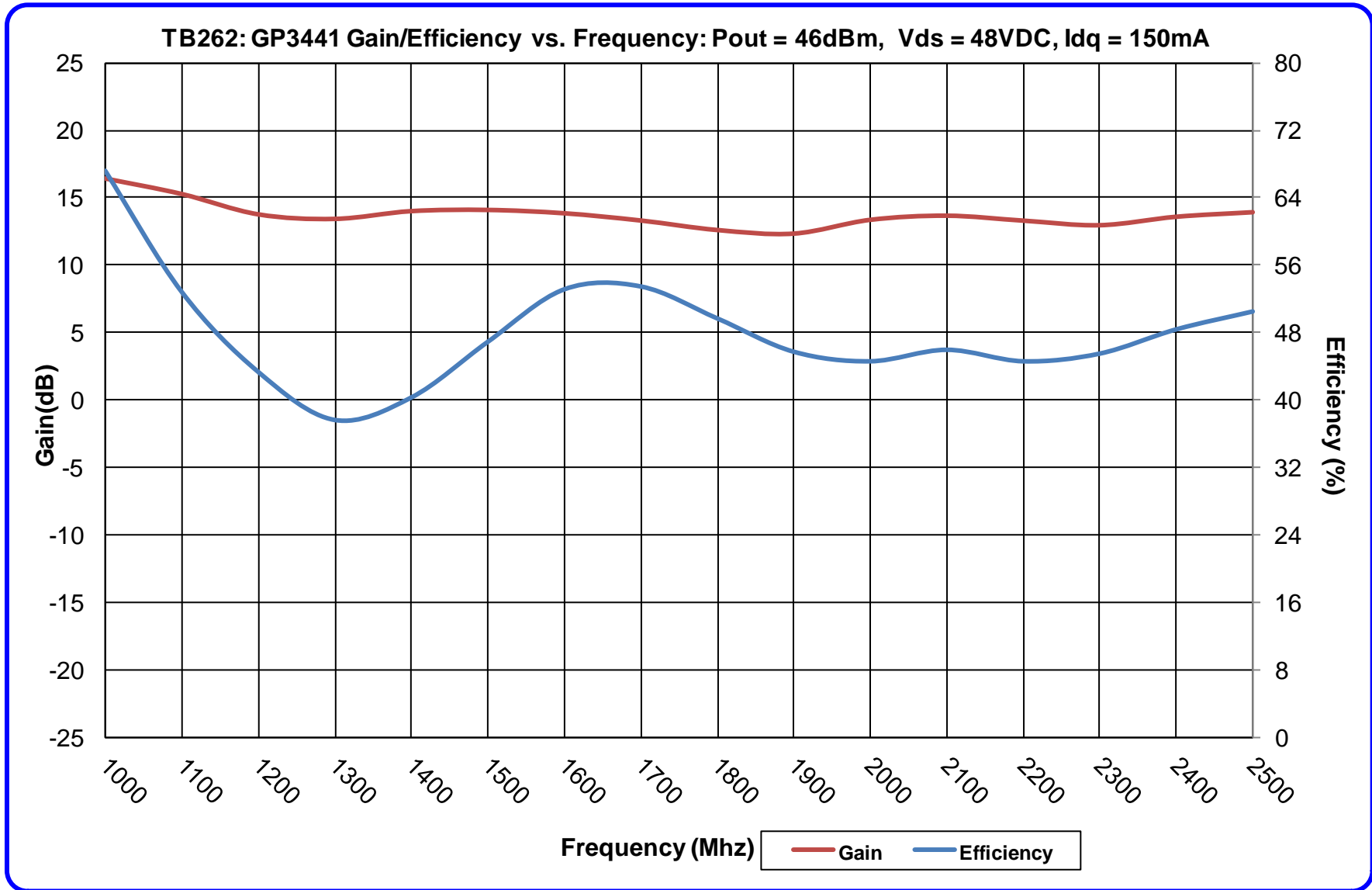
Efficiency = 52.8% (avg)

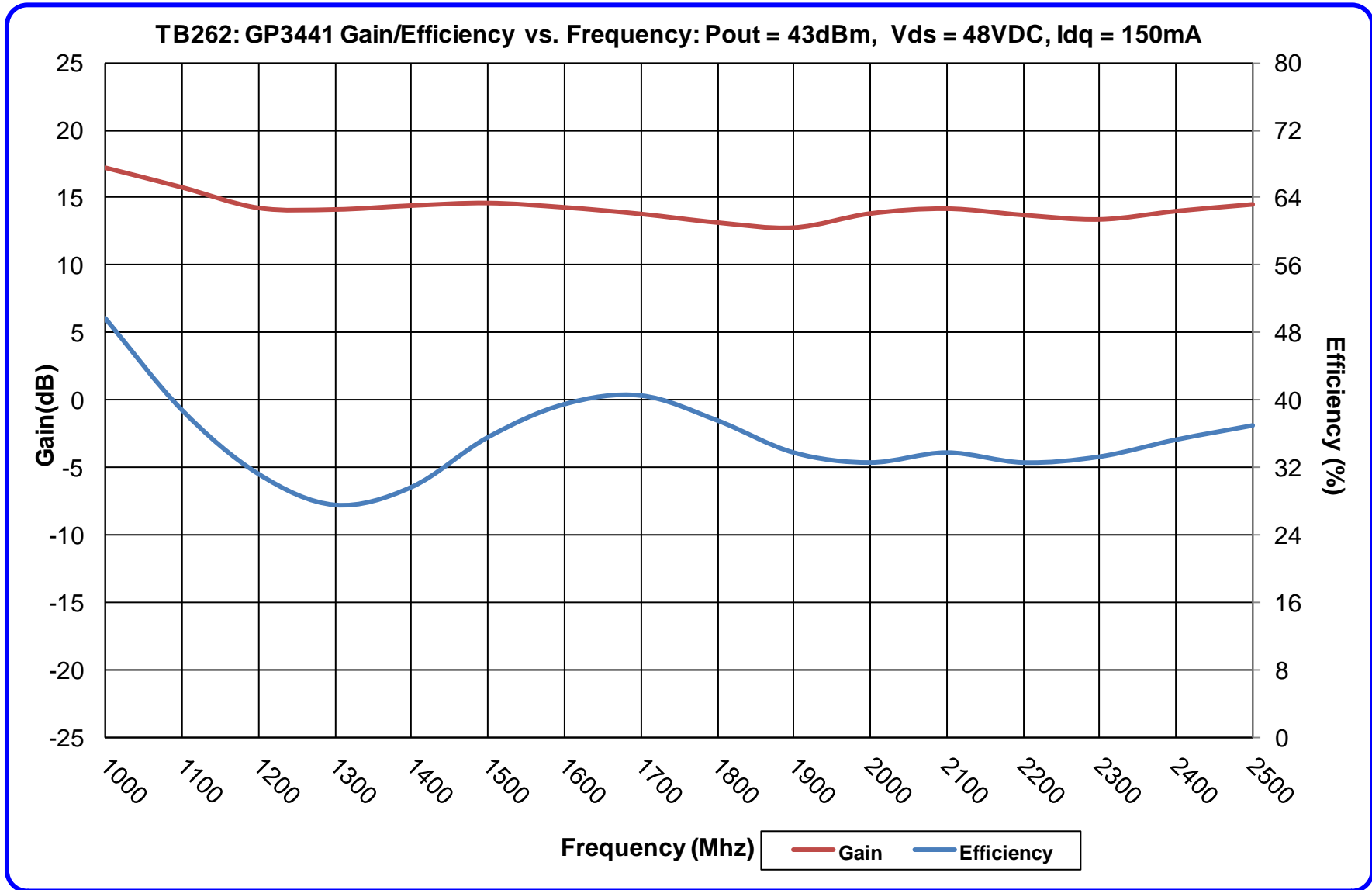


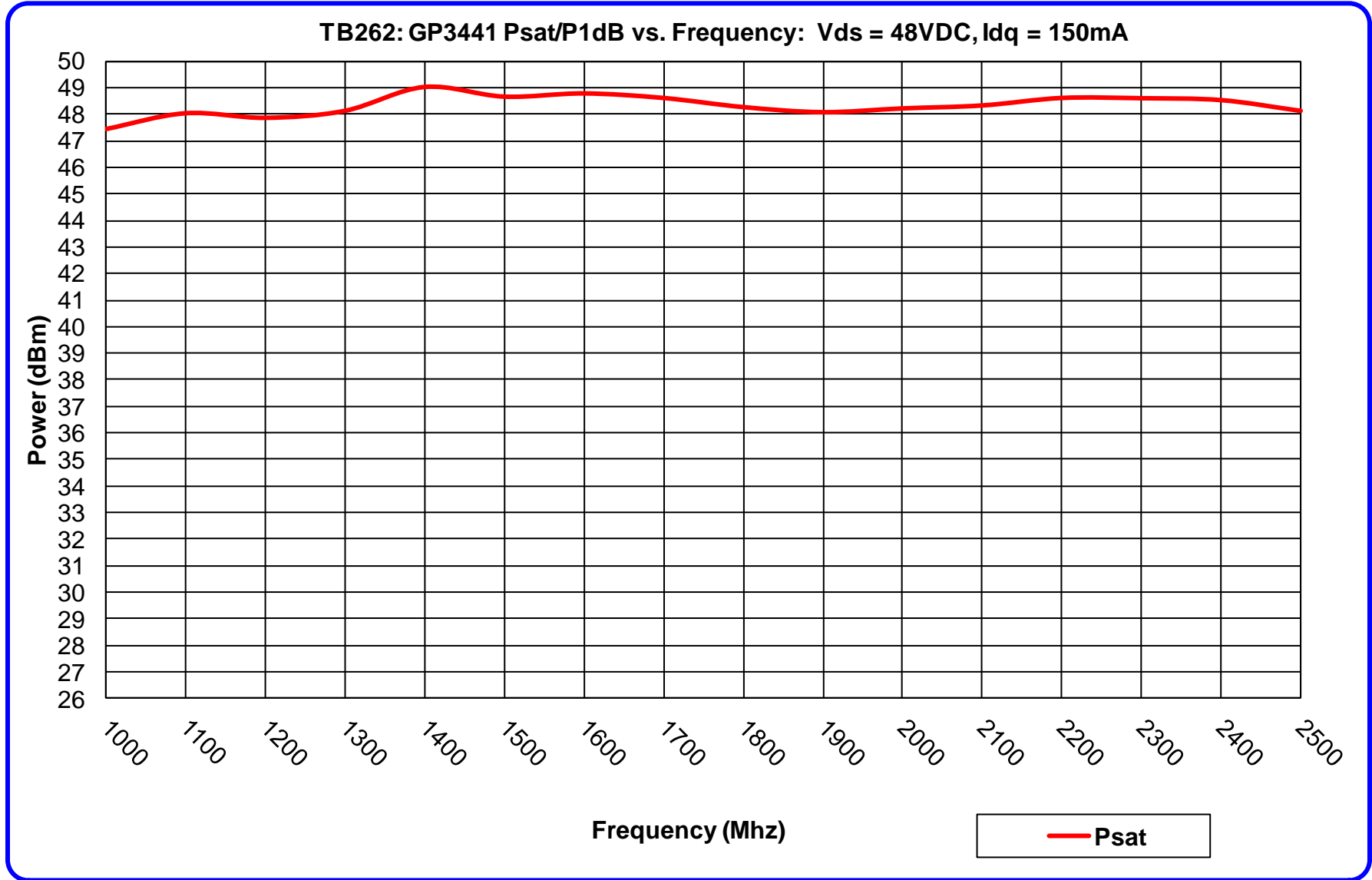
Bias instructions for TB262. Terminal ID found on page 24

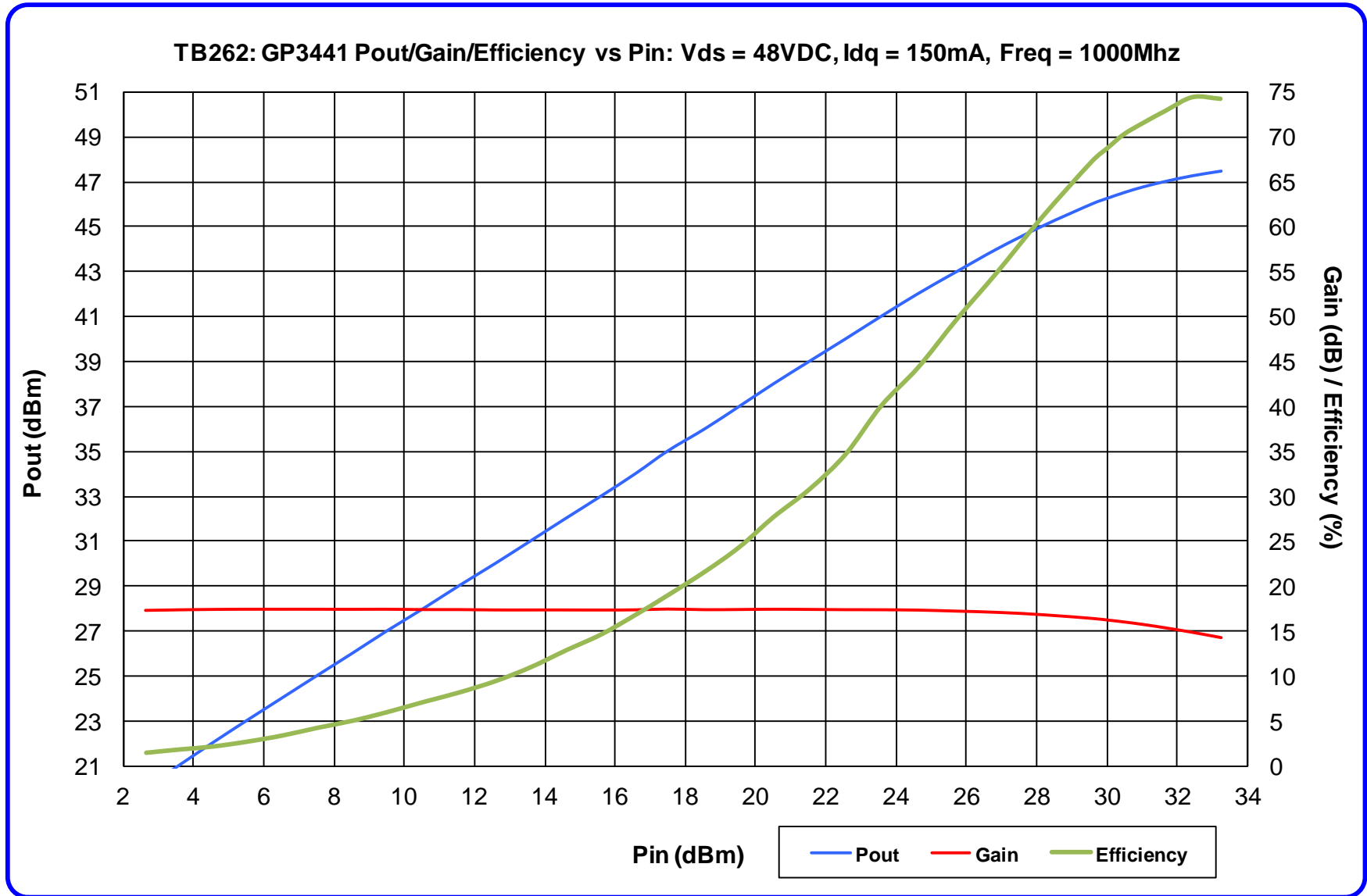
1. Apply -5.00V to Vgs terminal.
2. Apply 48VDC to Vds terminal.
3. Increase Vgs until drain current reaches 150mA bias current. This will happen at approximately -2.4VDC.
4. Apply RF input power.
5. After RF test is completed, remove RF input power.
6. Remove 48V Vds supply voltage.
7. Remove -5.00VDC Vgs supply voltage.

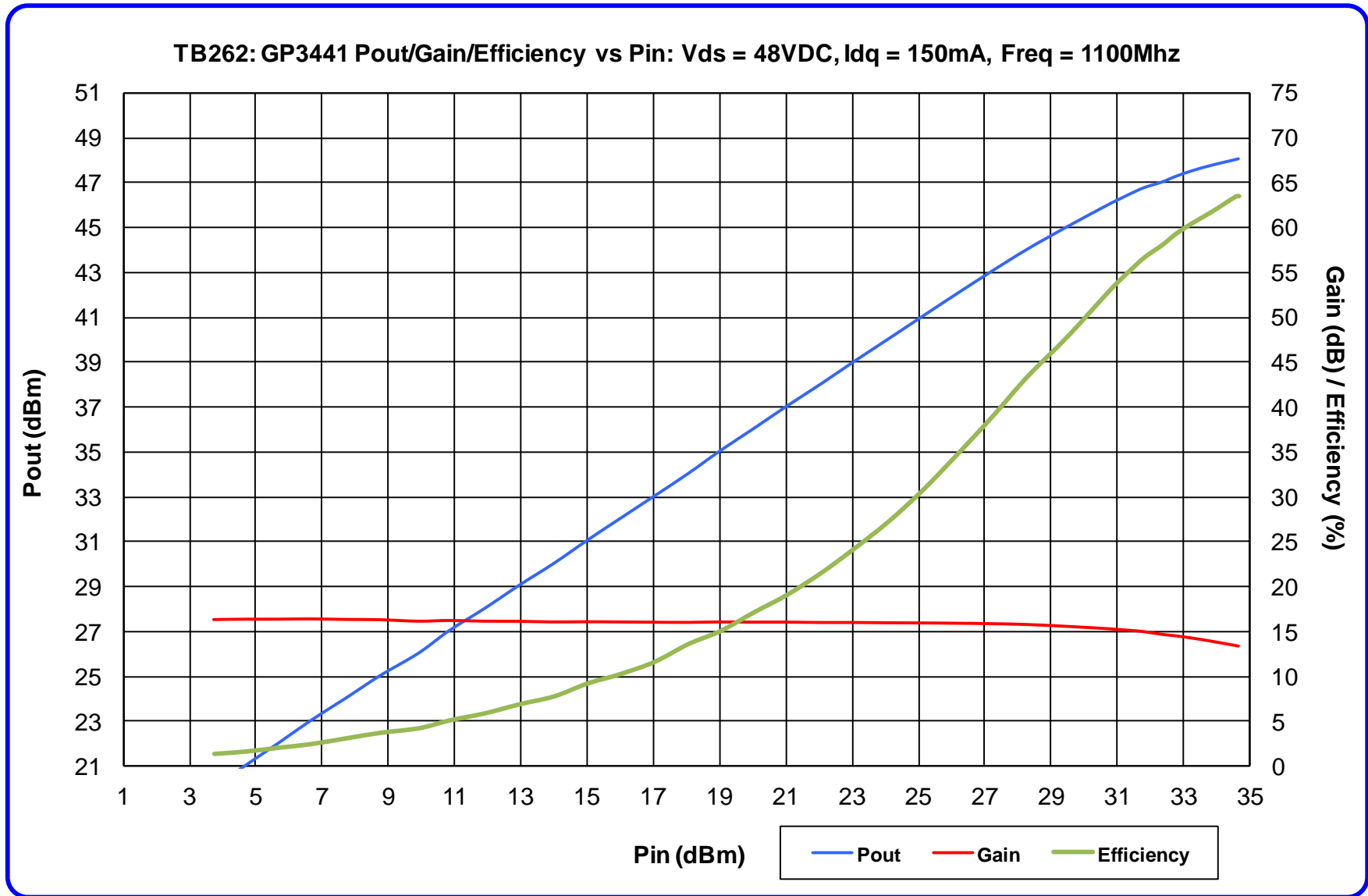


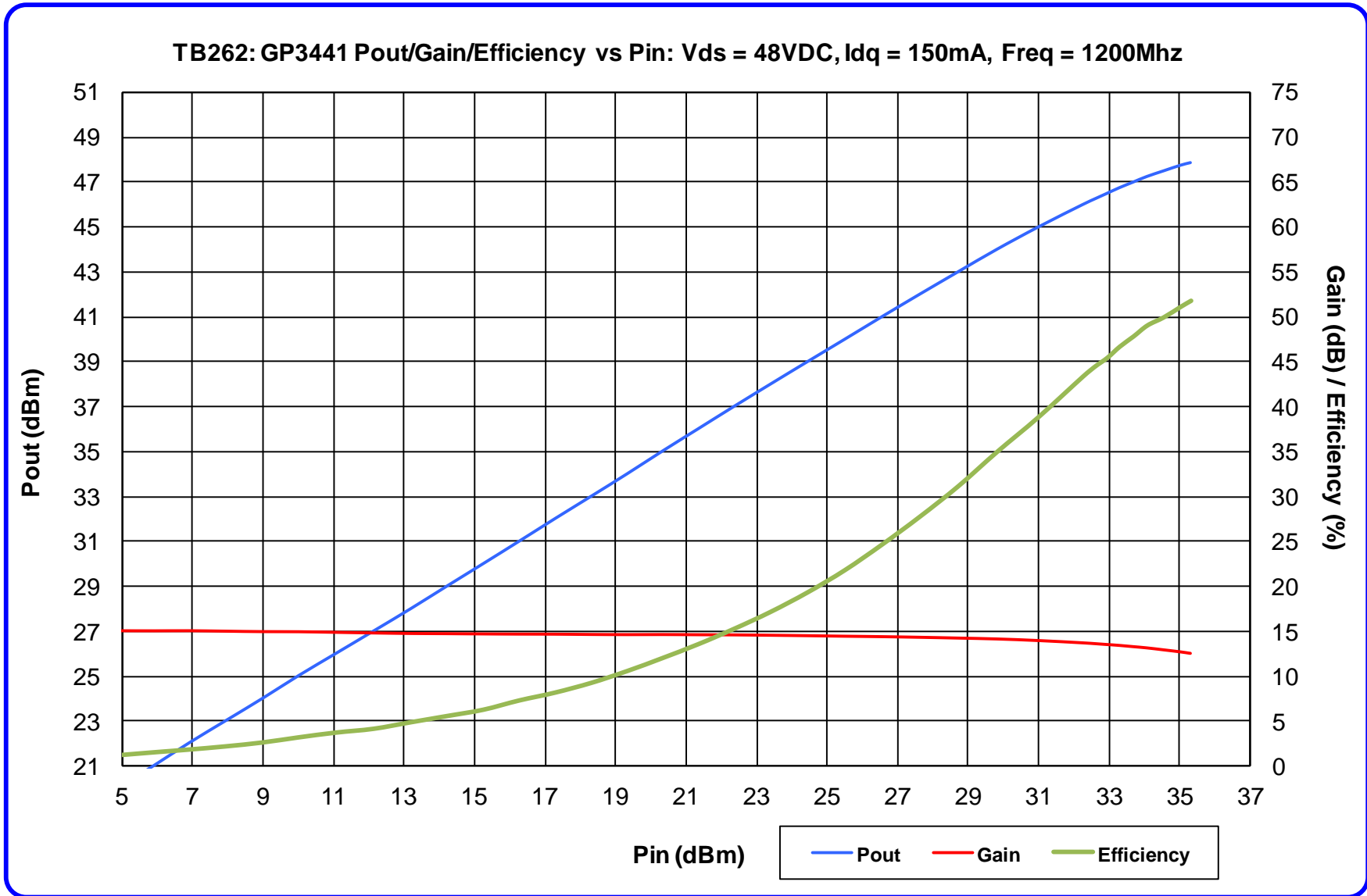


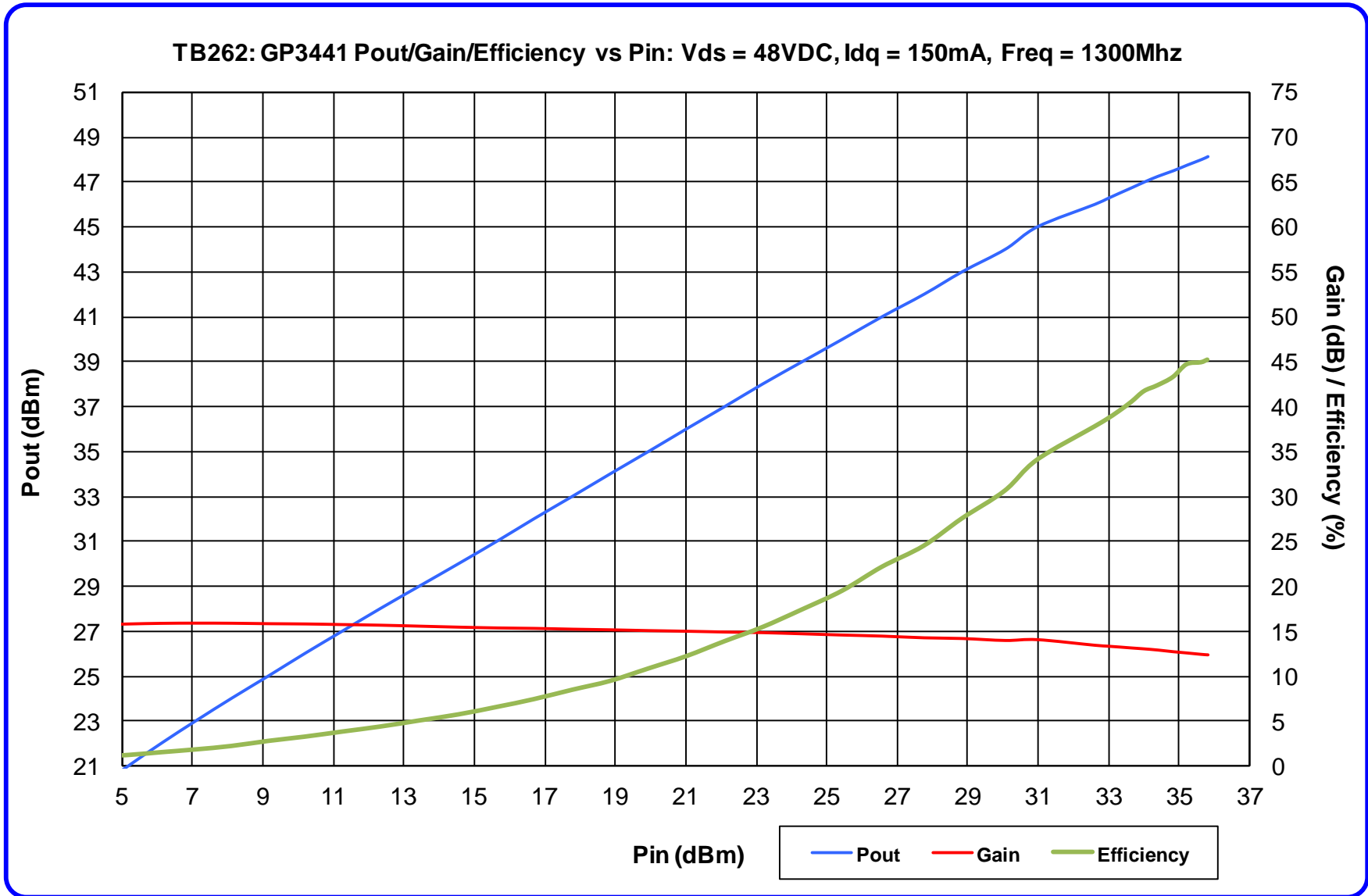


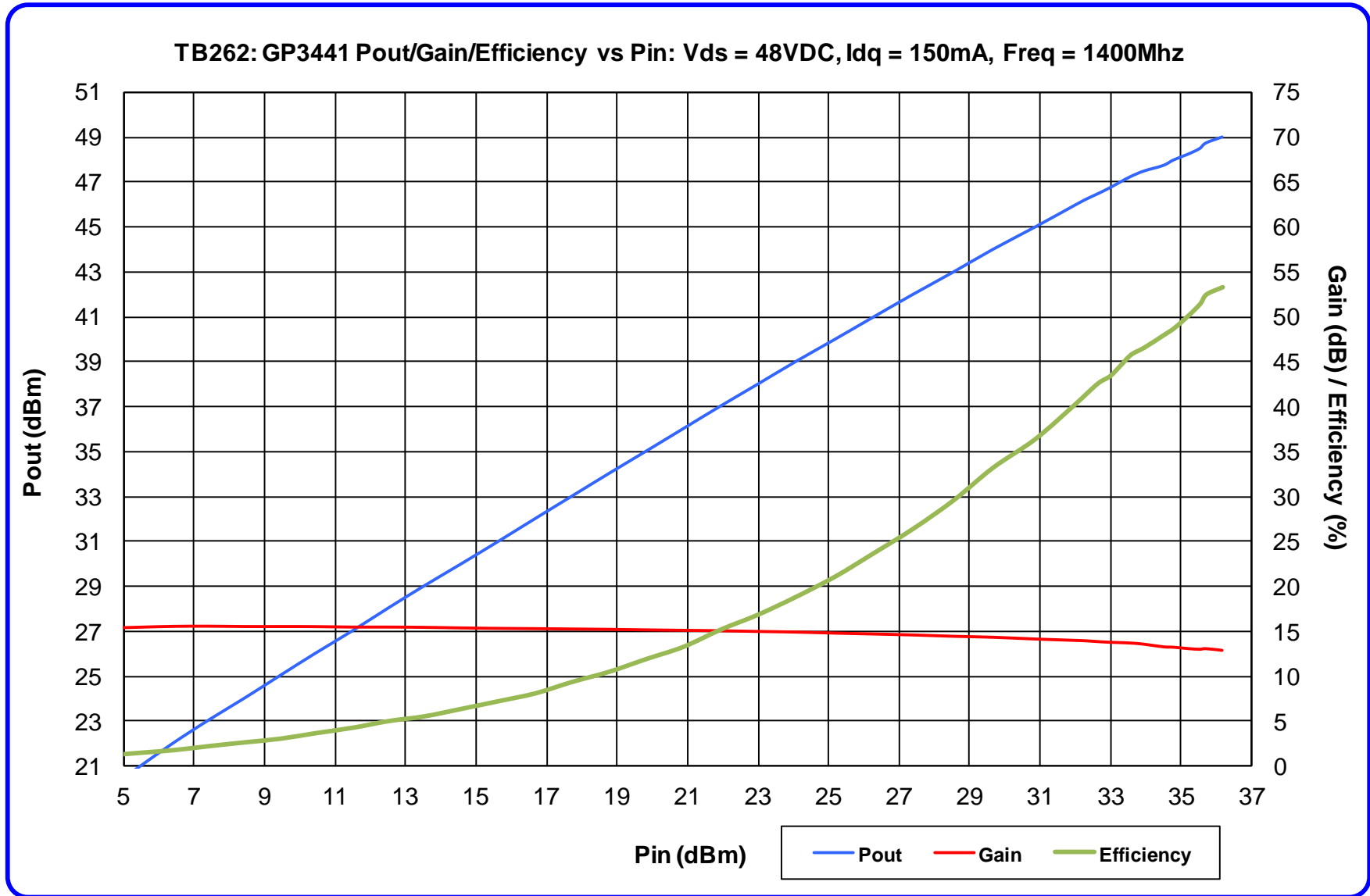


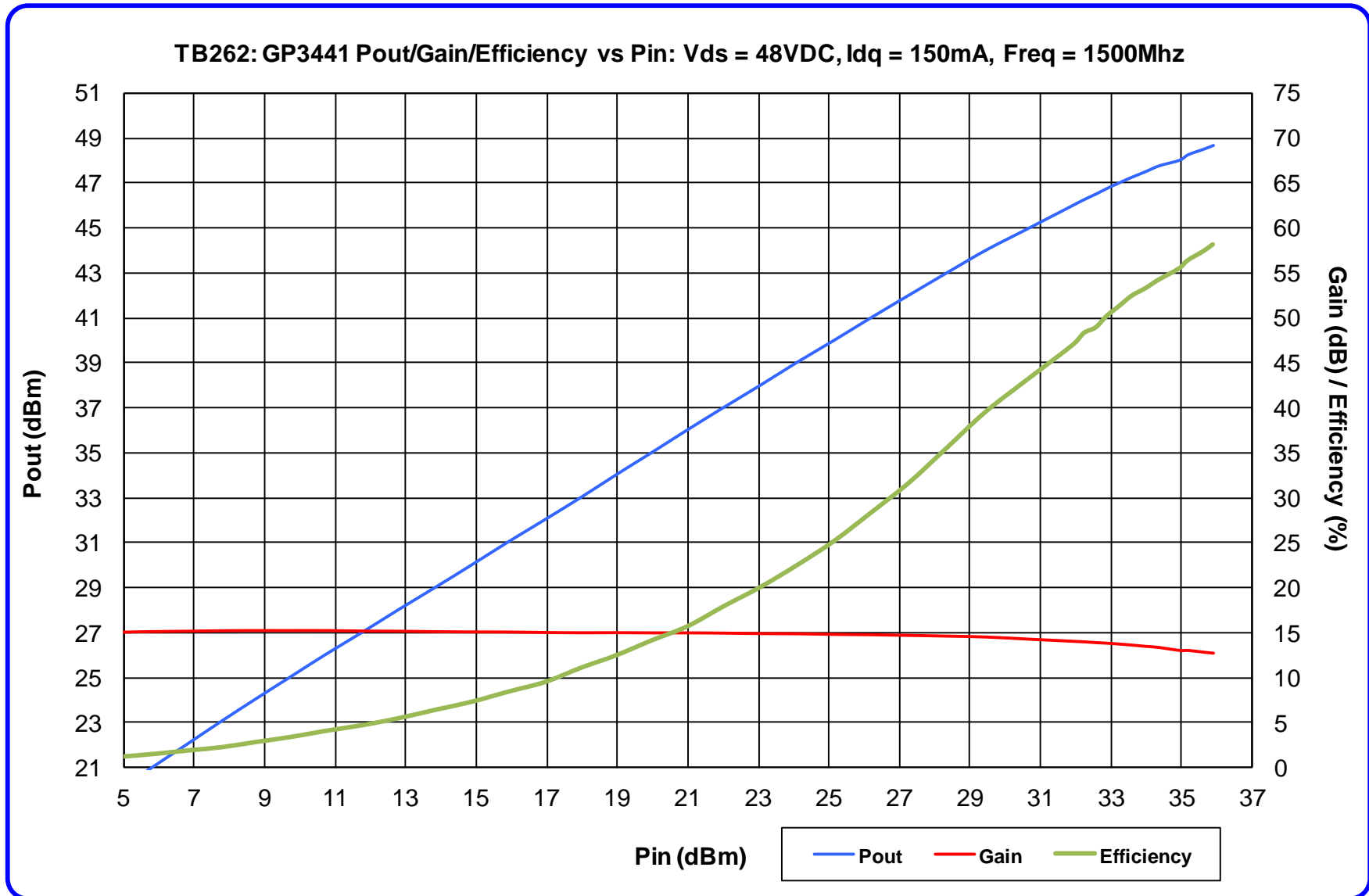


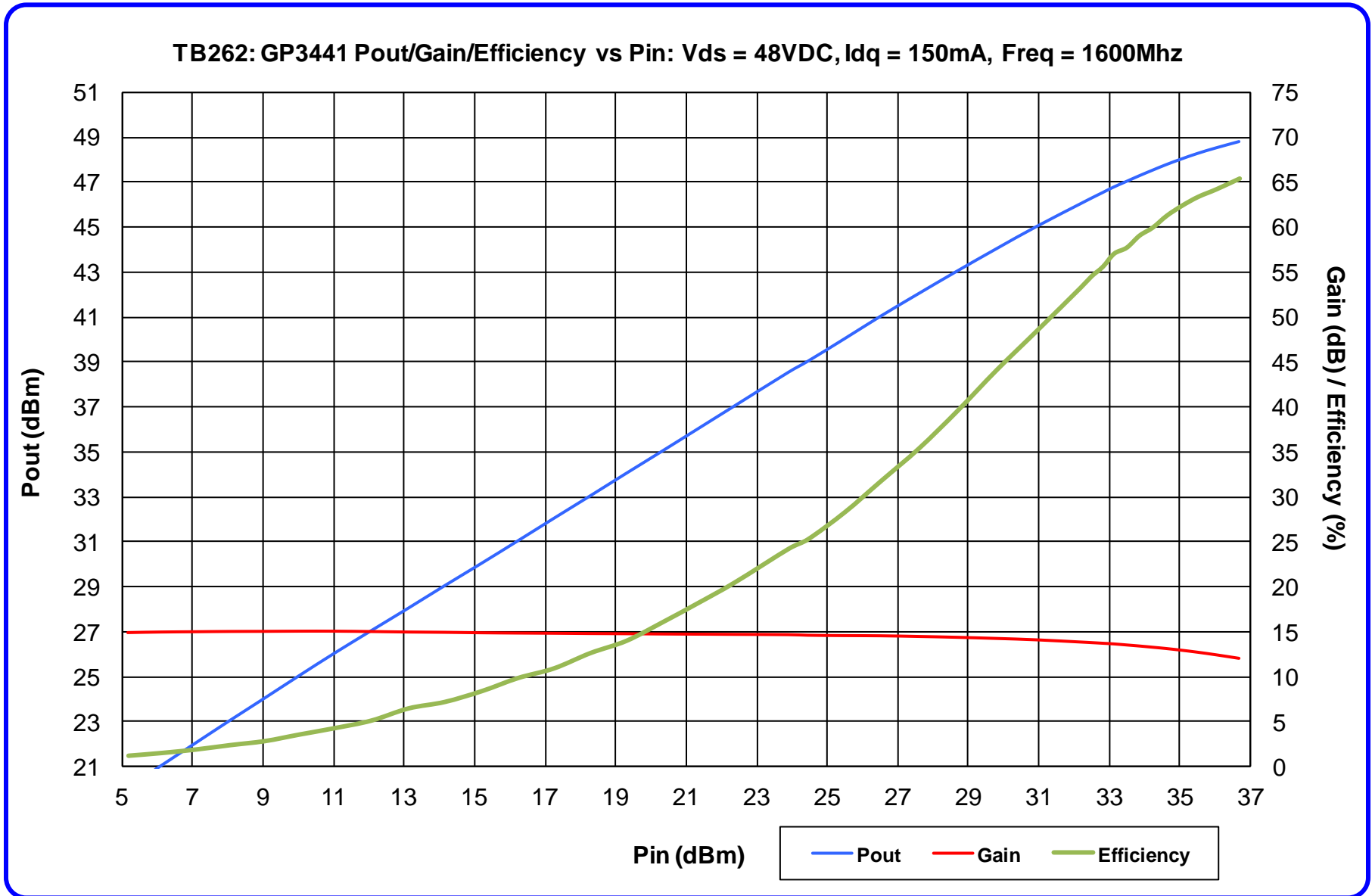


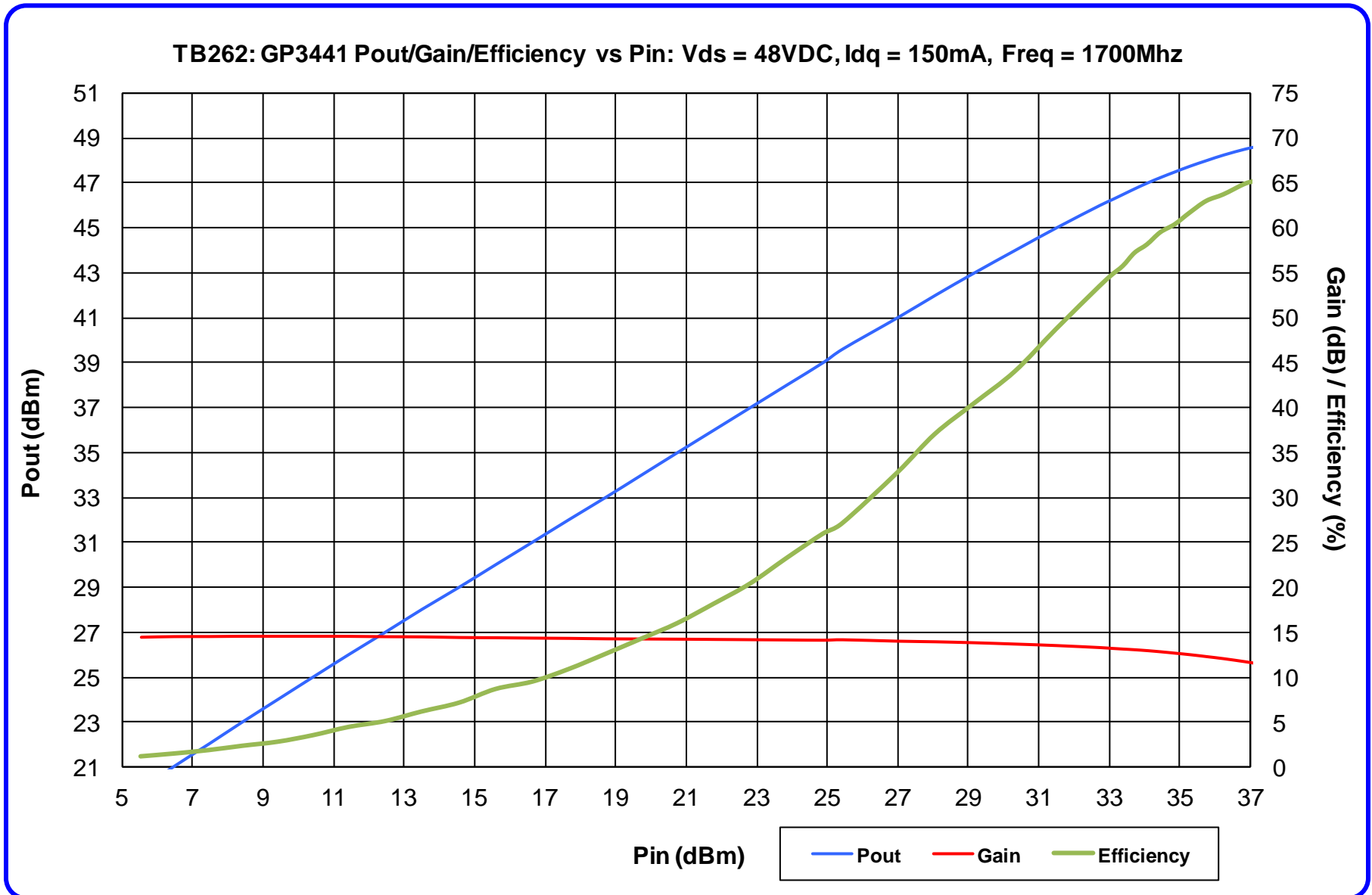


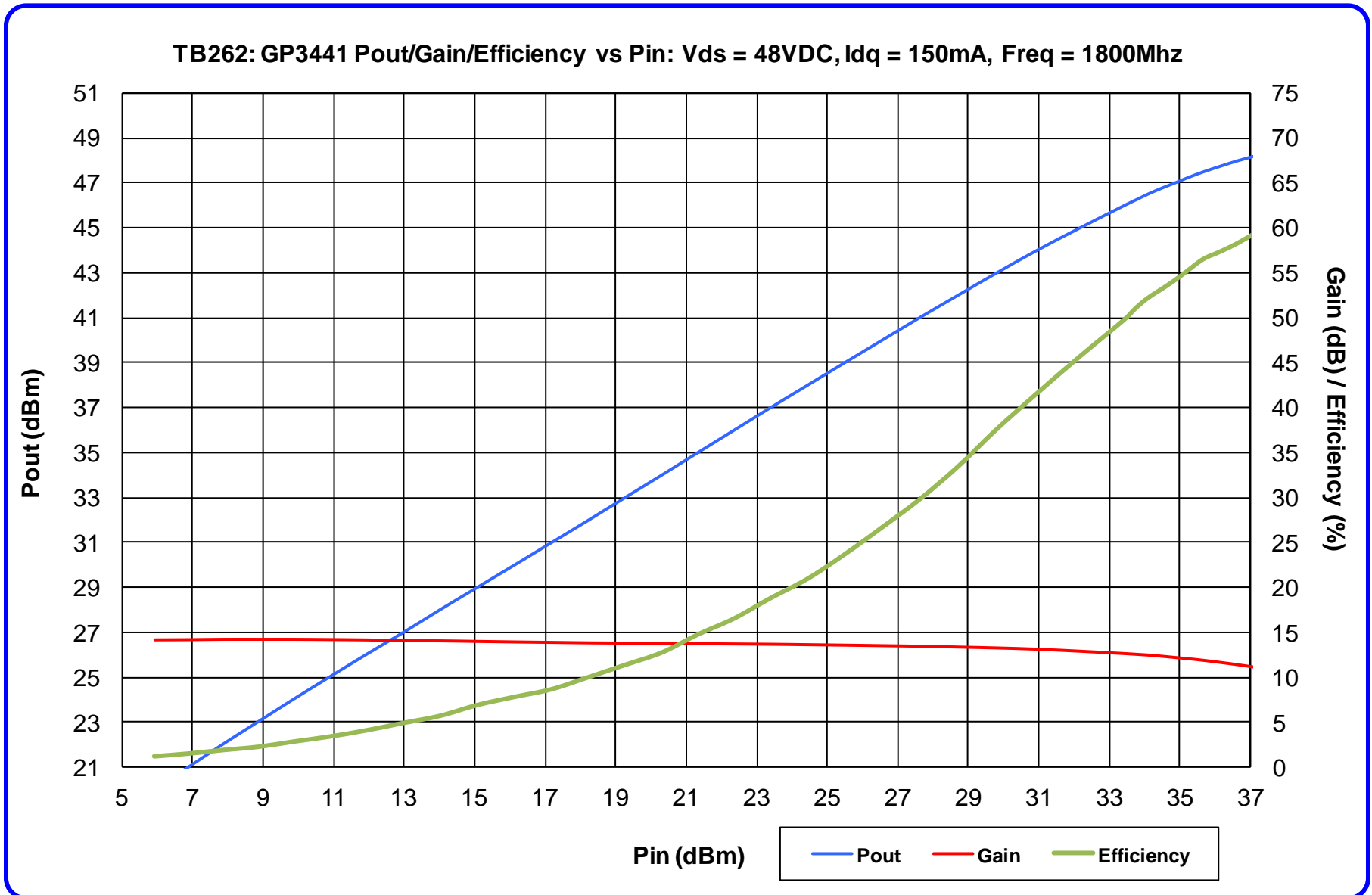


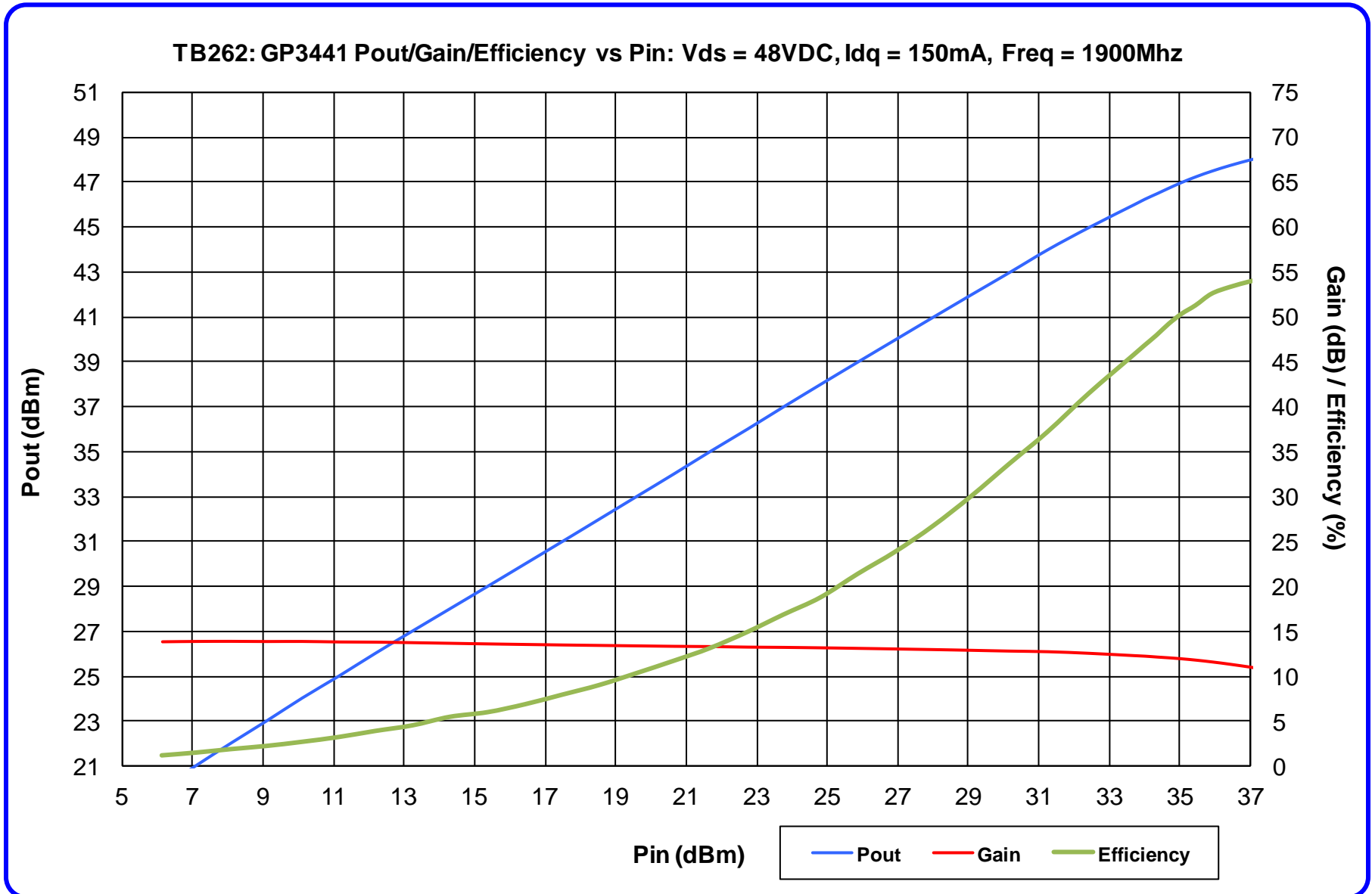


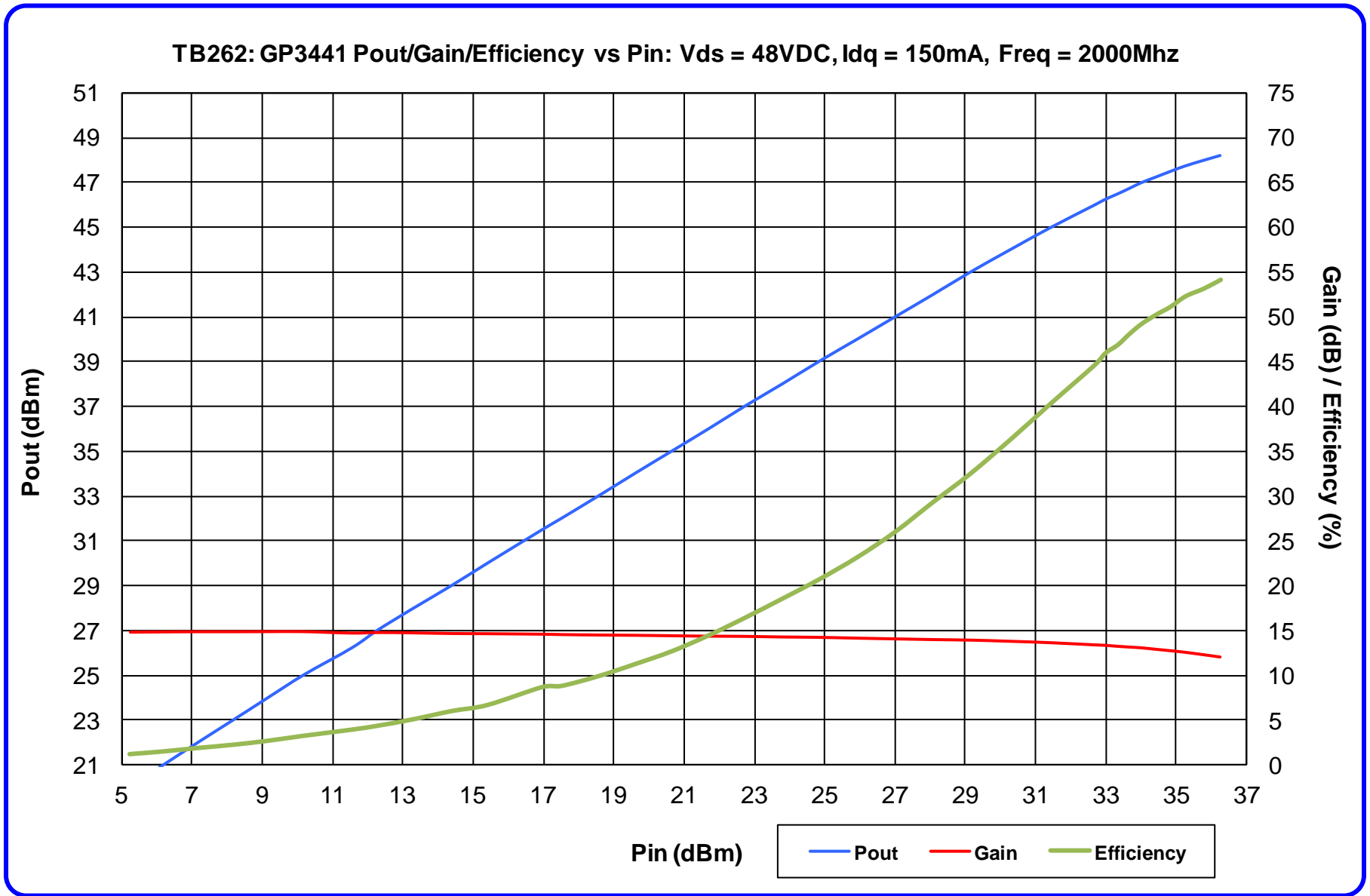


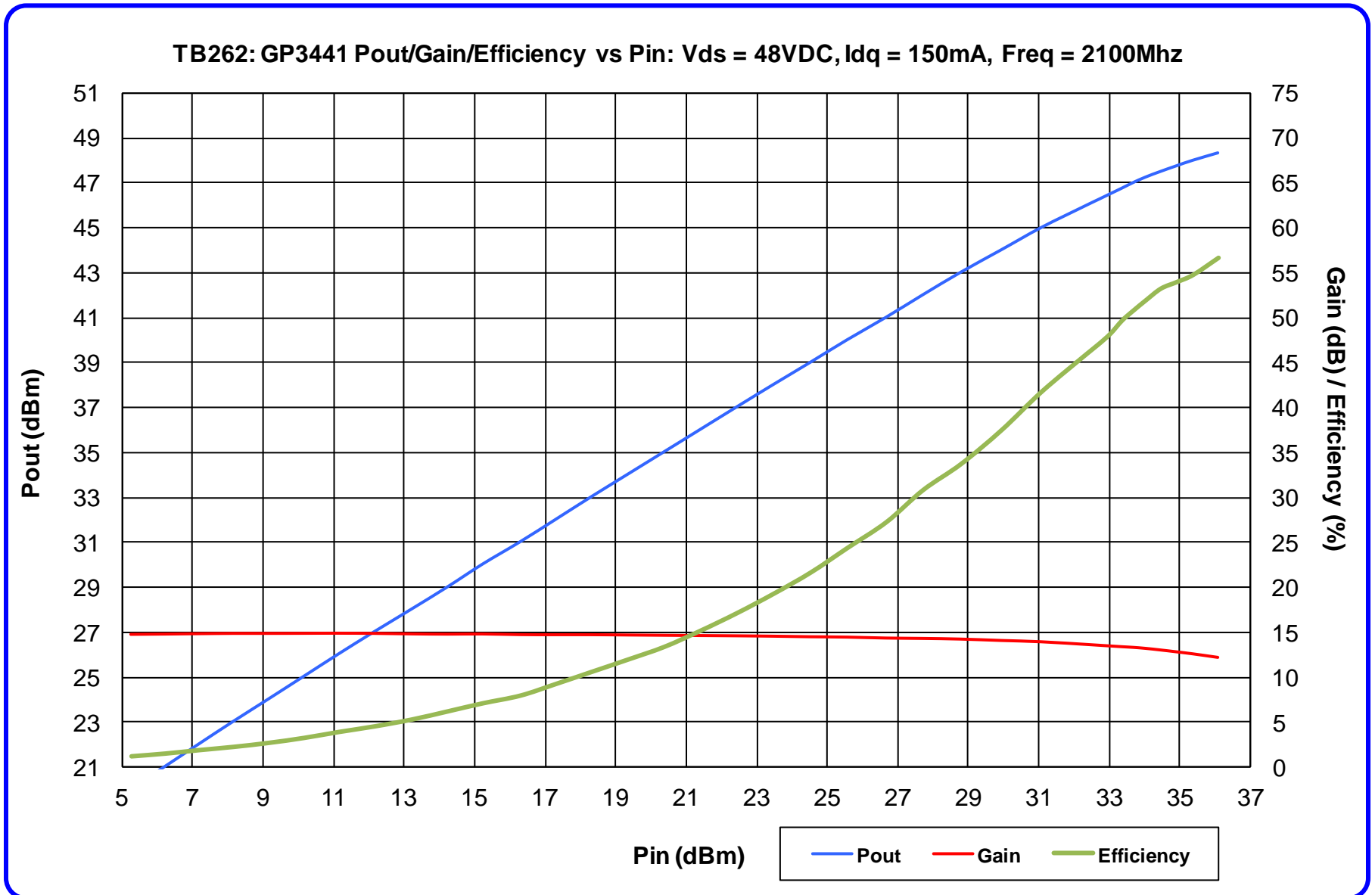


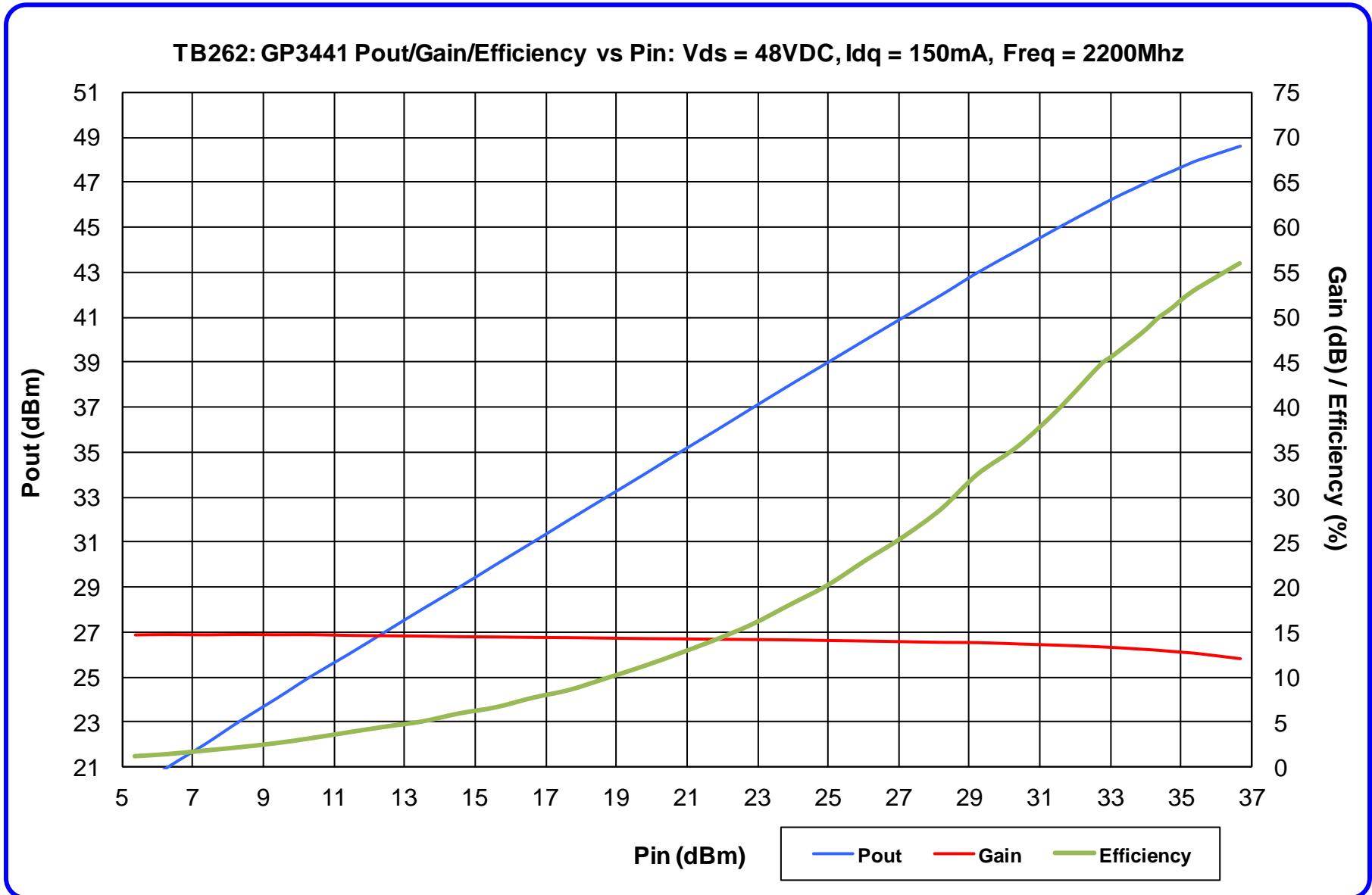


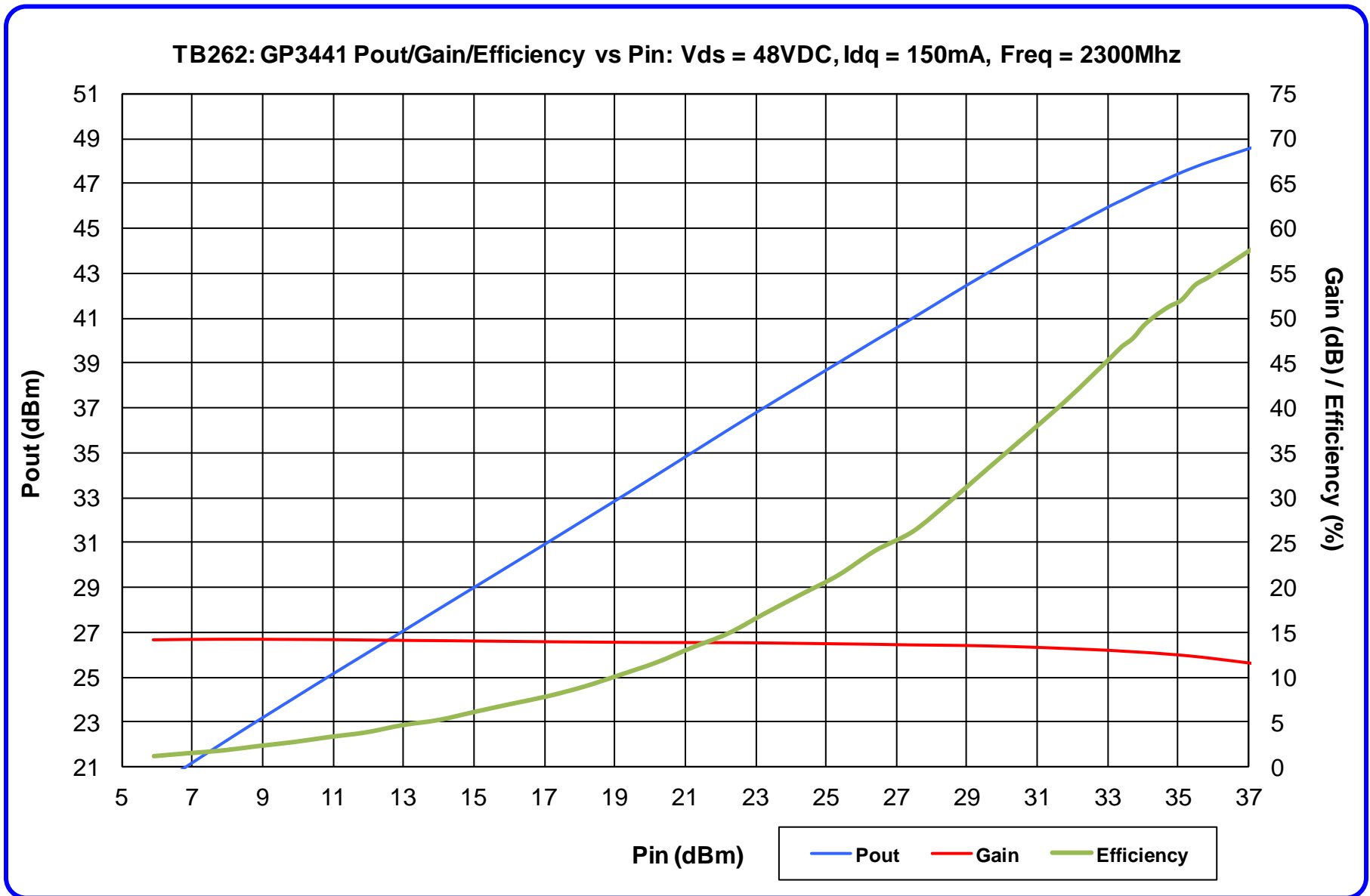


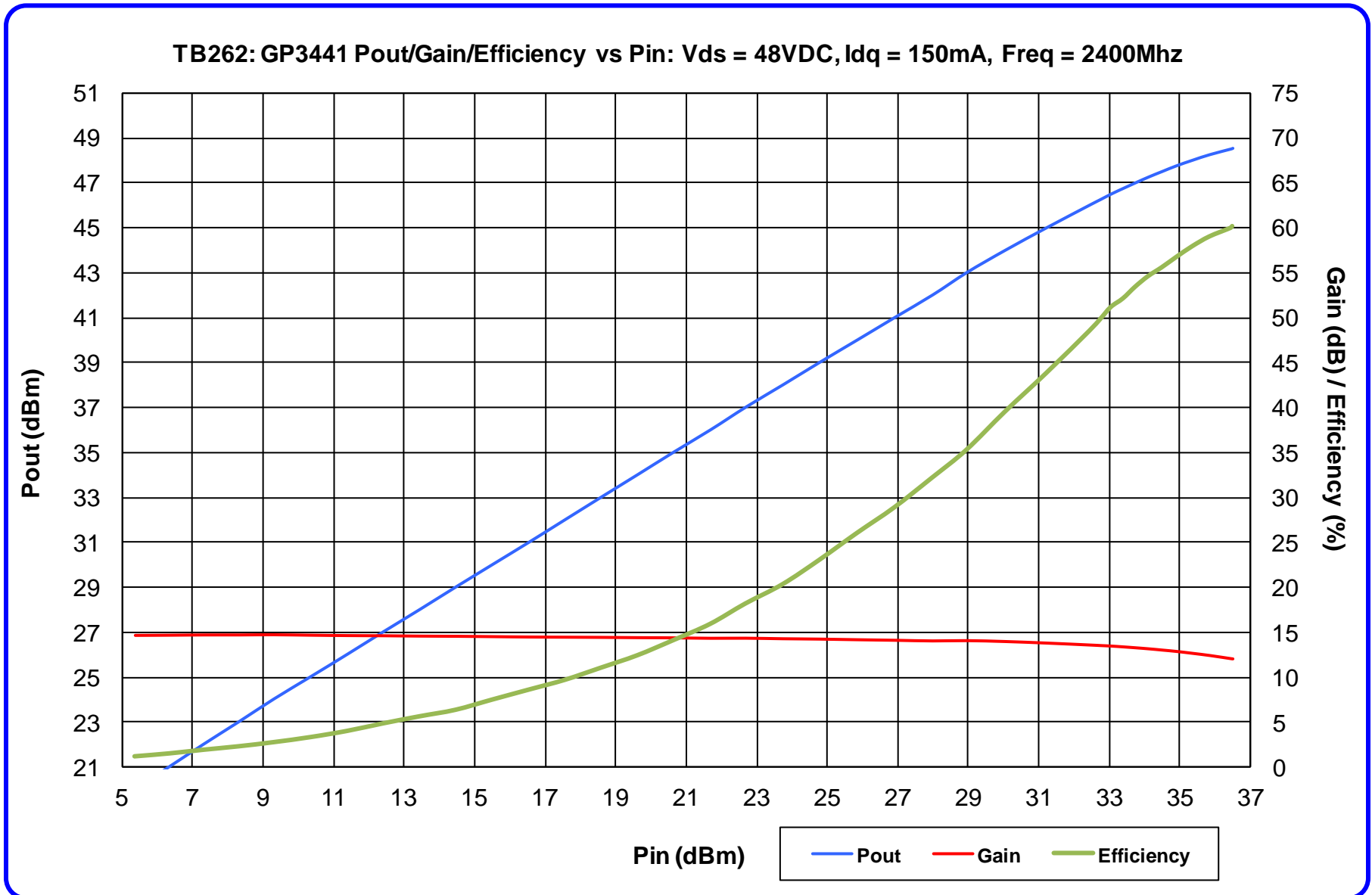


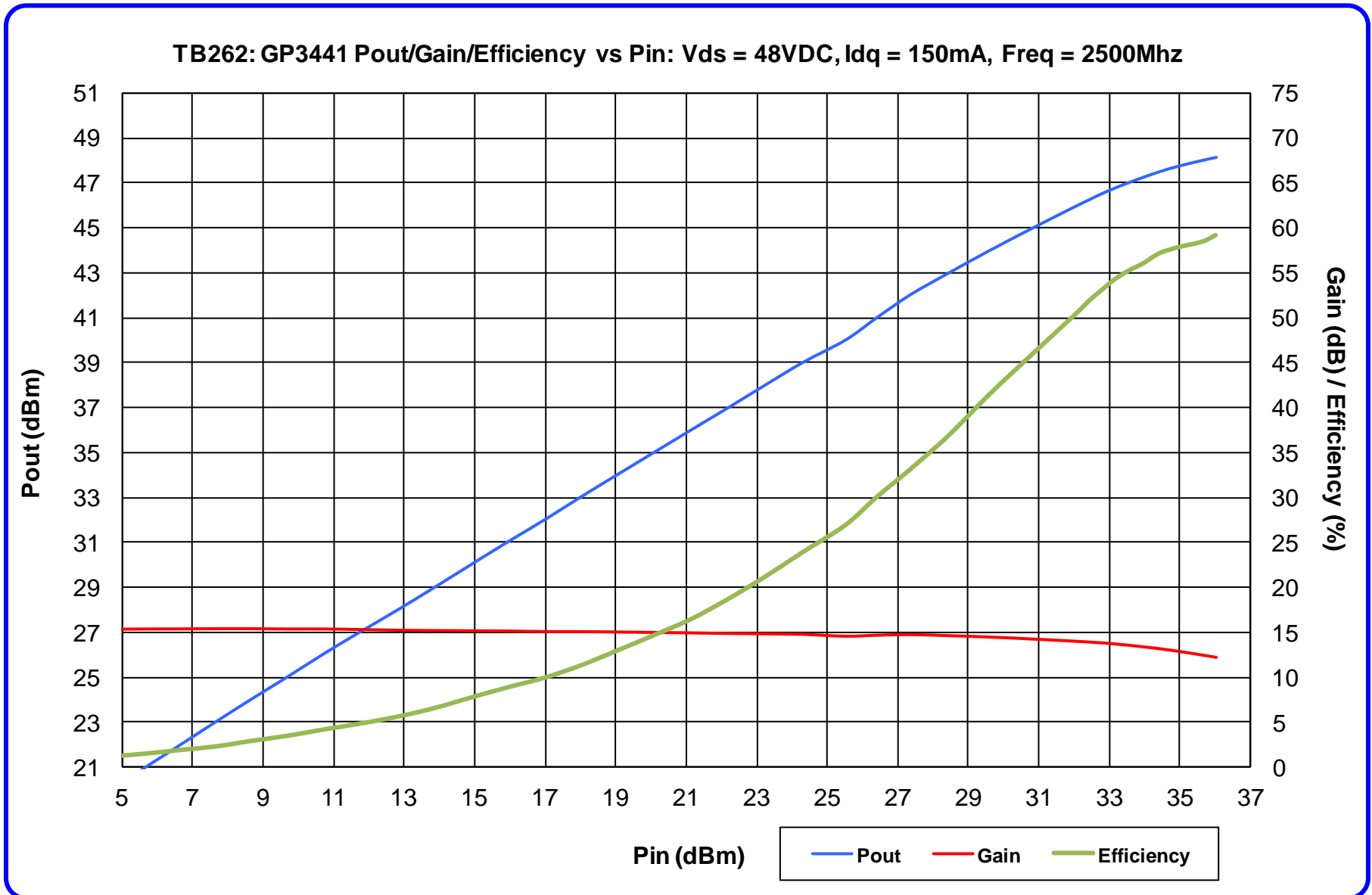






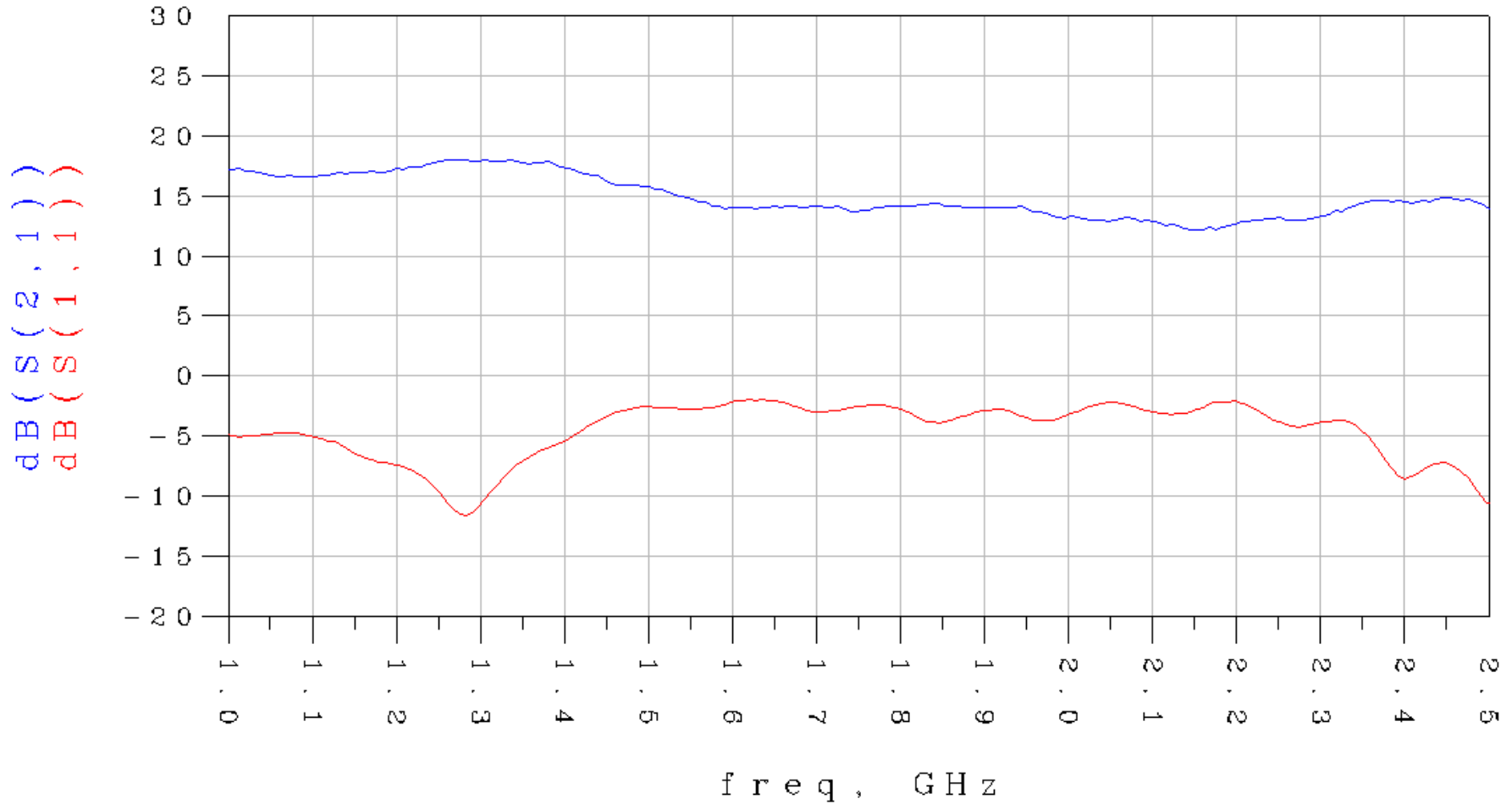


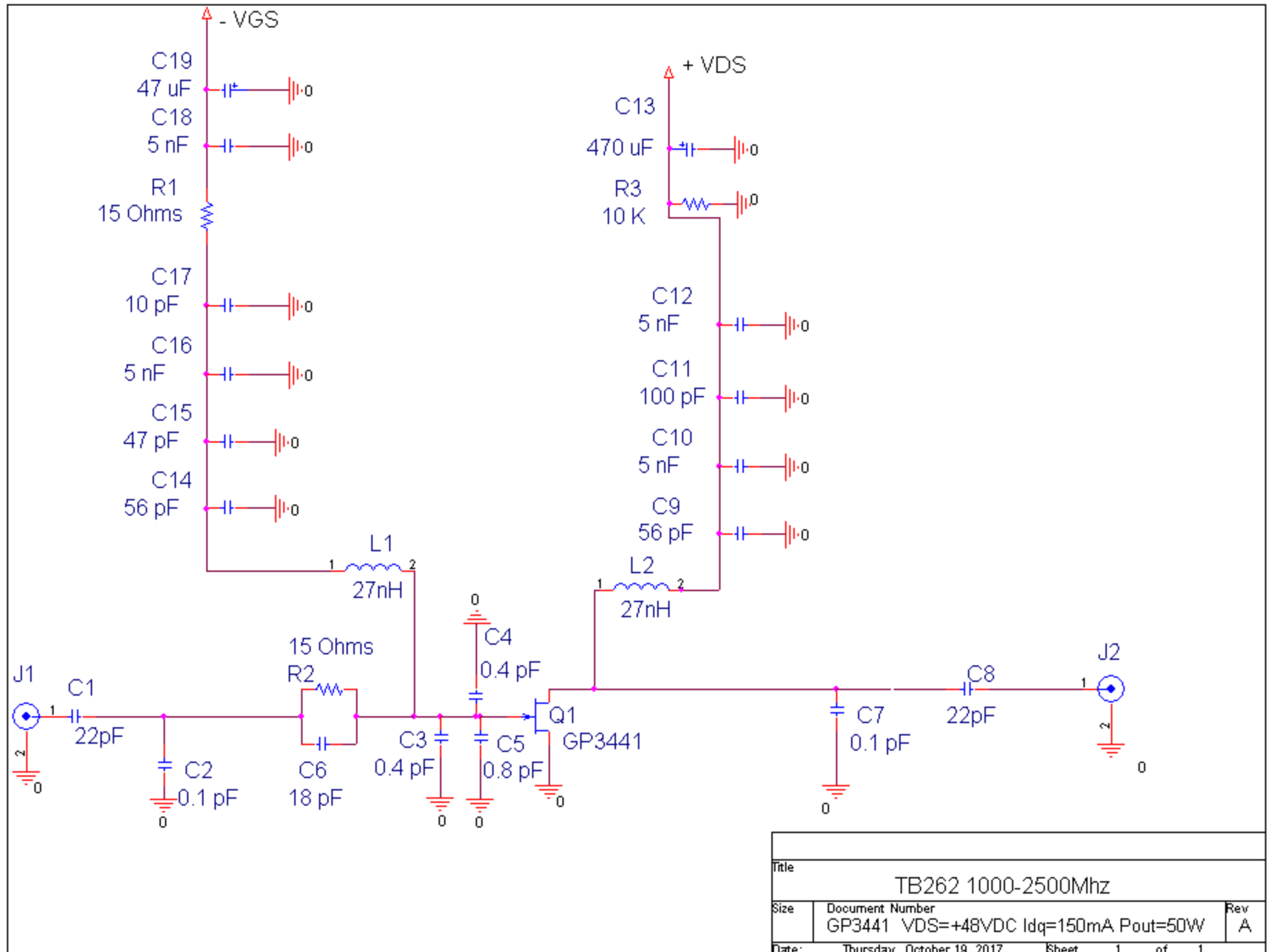


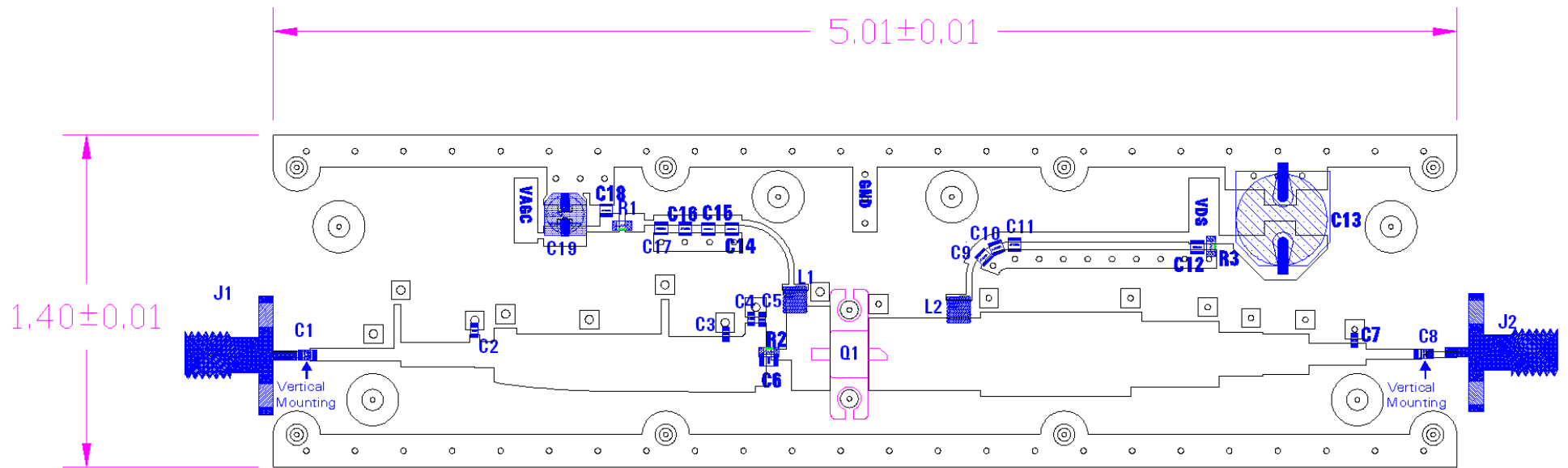


TB262 GP3441 Pin=0dBm

Vgs=-2.4V, Vds=48V Idq=150mA







TB262			
NOMENCLATURE	DESCRIPTION	VENDER	VENDER PART #
C1, C8	22pF EIA Low ESR 0805N Series	Passive Plus, Inc	0805N220JW251
C2, C7	0.1pF EIA Low ESR 0603N Series	Passive Plus, Inc	0603N0R1BW251
C3, C4	0.4pF EIA Low ESR 0603N Series	Passive Plus, Inc	0603N0R4BW251
C5	0.8pF EIA Low ESR 0603N Series	Passive Plus, Inc	0603N0R8BW251
C6	18pF EIA Low ESR 0805N Series	Passive Plus, Inc	0805N180JW251
C9	56pF Hi-Q Low ESR 0505C Series	Passive Plus, Inc	0505C560FW301
C14	68pF Hi-Q Low ESR 0505C Series	Passive Plus, Inc	0505C680FW301
C15	47pF Hi-Q Low ESR 0505C Series	Passive Plus, Inc	0505C470FW301
C17	10pF Hi-Q Low ESR 0505C Series	Passive Plus, Inc	0505C100FW301
C11	100pF Hi-Q Low ESR 0505C Series	Passive Plus, Inc	0505C101FW301
C10,C12,C16,C18	5nF Low ESR By-Pass Capacitors 0505X Series	Passive Plus, Inc	0505X502KN500
C13	470uF Aluminum Electrolytic, 100V	Panasonic	ECA-2AHG471
C19	47uF Aluminum Electrolytic, 100V	Panasonic	ECA-2AHG470
L1,L2	27nH 5% 1111SQ Series	Coilcraft	1111SQ-27NJEB
R1,R2	15 Ohms 1/8W RCC-0805 SMD, 175mW	IMS	RCC-0805S-15R0F
R3	RES SMD 10K OHM 5% 1/4W 1206	Rohm Semiconductor	MCR18EZPJ103
Q1	GaN	Polyfet RF Devices	GP3441
J1,J2	SMA Female; 4 Hole Panel Mount	Pasternack	PE4000-SF
PCB	PTFE / Woven Fiber glass / Ceramic Filled Laminate AD1000L Er=10.2+/-0,.25 30mil 1/1oz copper	Rogers Corp.	AD1000L