



GRF5857 5150-6000MHz

Hybrid Combined Comparison

JULY 21, 2026

Vcc1/2 = 5V

Vcc3 = 5V

Ven (VSHDN):
0-0.8V enable
2-5V disable

M14
22uF

M6
M3
M8
0.1uF
220pF

M1

U1
0.1uF
604Ω
715Ω
1.07kΩ

M5
M2
M9
0Ω
0Ω
0Ω
M11
M12

M7
M10
M13
M15

Vbias = 5V

LAMM12-25x30-20-D.

J1 REIN

J3 RFOUT

GRF



GRF5857.2.0

2x combined evaluation board assembly

EVB: BaI-PA-2xLAMM12-25x30-A

U1, U3: TTM/XINGER X4C55K1-03S

U2, 2B: GRF5857.2.0

M1: TTM C05N50Z4

M2, 2B: 10 μ F 0402

M3, 3B: 220pF, 0201

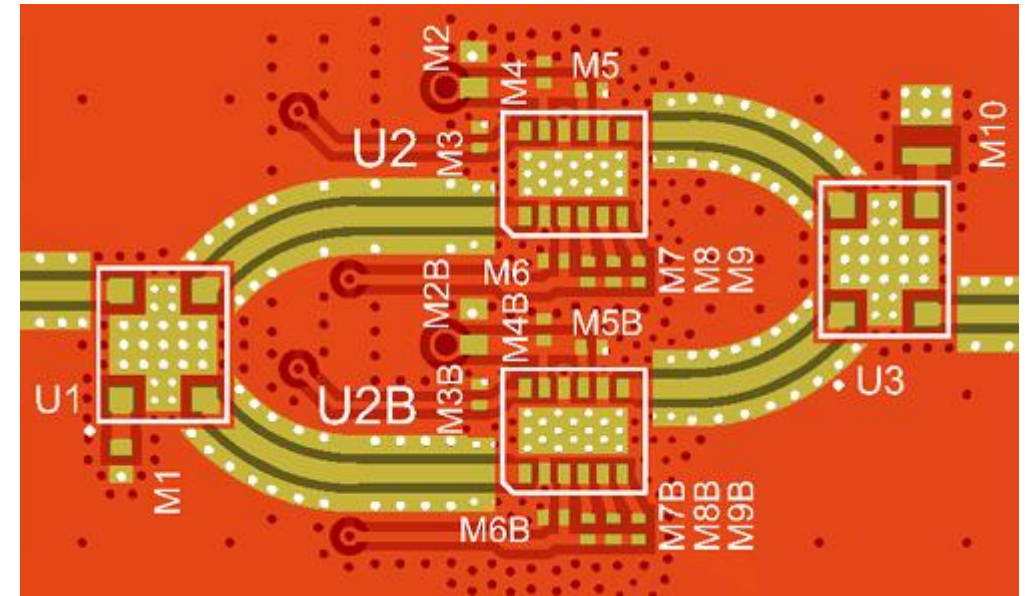
M4, 5, 6, 4B, 5B, 6B: 0.1 μ F 0201

M7, 7B: 1.07 k Ω , 1% 0201

M8, 8B: 604 Ω , 1% 0201

M9, 9B: 715 Ω , 1% 0201

M10: TTM C3A50Z4



GRF5857.2.0

4x combined evaluation board assembly

EVB: Bal-PA-4xLAMM12-25x30-A

U1, U5: TTM/XINGER X3C55F1-03S

U2, 2B, 4, 4B: TTM/XINGER X4C55K1-03S

U3, 3B,C,D: GRF5857.2.0

M1, 2, 2B: TTM C05N50Z4

M3, 3B,C,D: 10 μ F 0402

M4, 4B,C,D: 220pF, 0201

M5, 6, 7,
5B,C,D, 6B,C,D, 7B,C,D: 0.1 μ F 0201

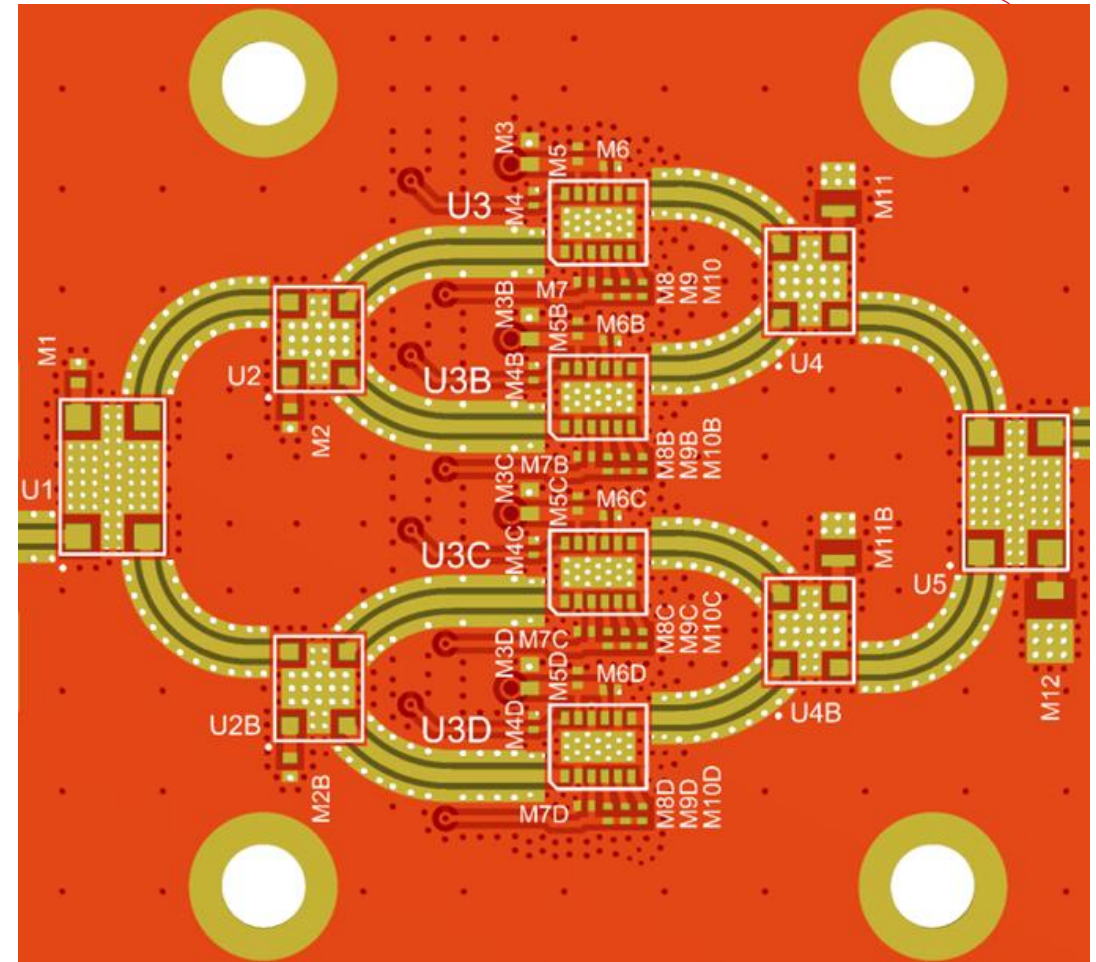
M8, 8B,C,D: 1.07 k Ω , 1% 0201

M9, 9B,C,D: 604 Ω , 1% 0201

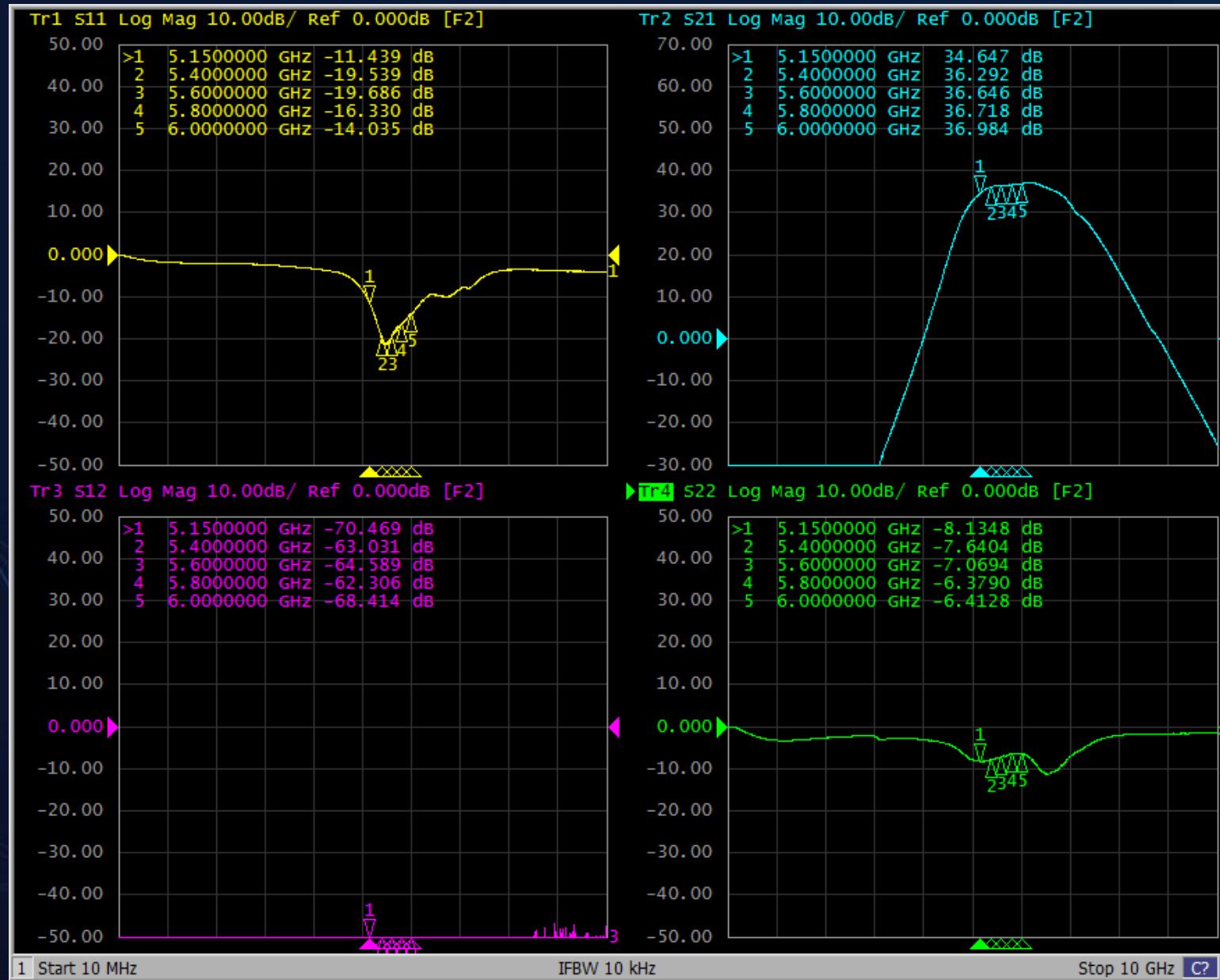
M10, 10B,C,D: 715 Ω , 1% 0201

M11, 11B: TTM C3A50Z4

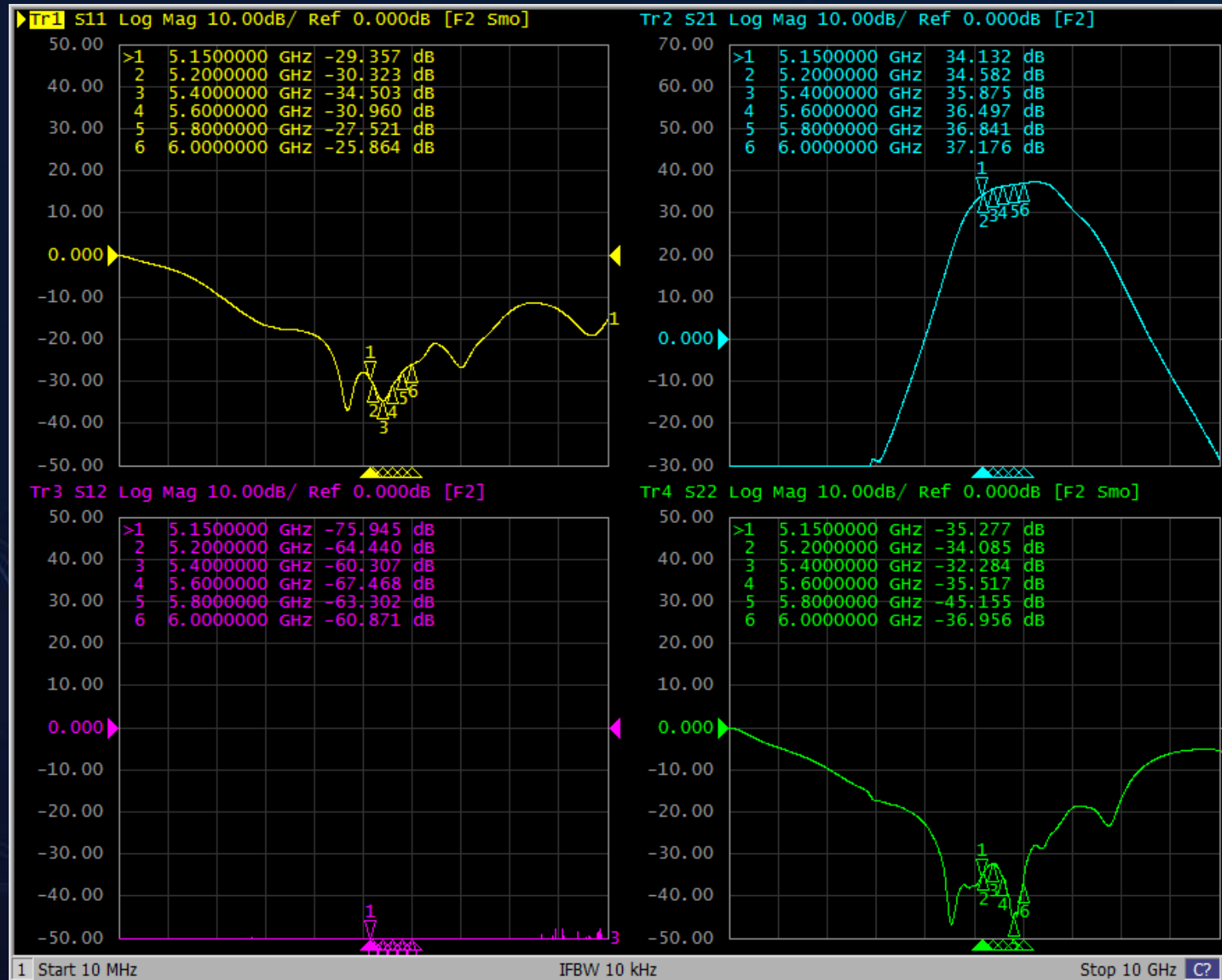
M12: TTM C6N50Z4



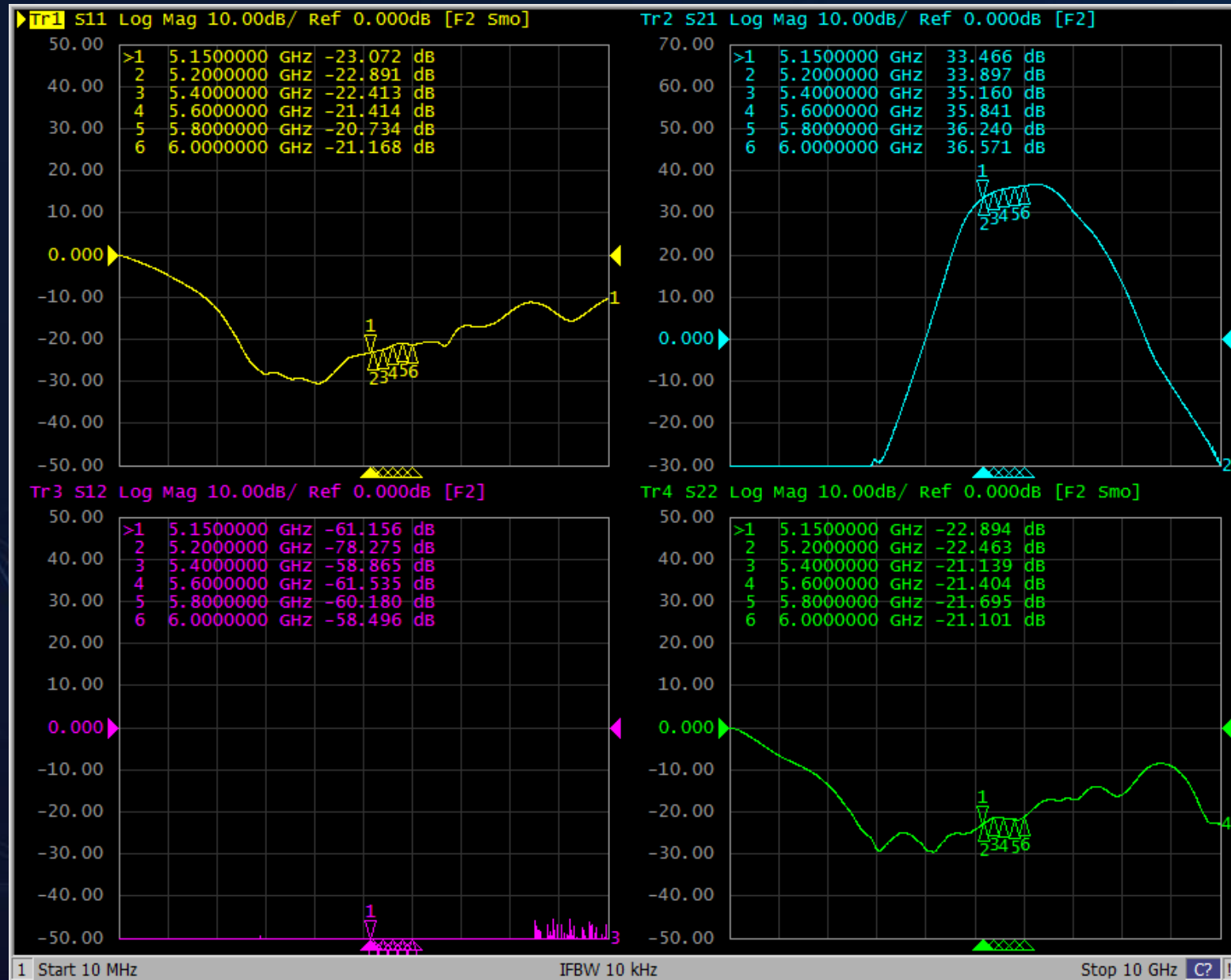
GRF5857 Single PA Small Signal Response



GRF5857 2X Combined Small Signal Response



GRF5857 4X Combined Small Signal Response

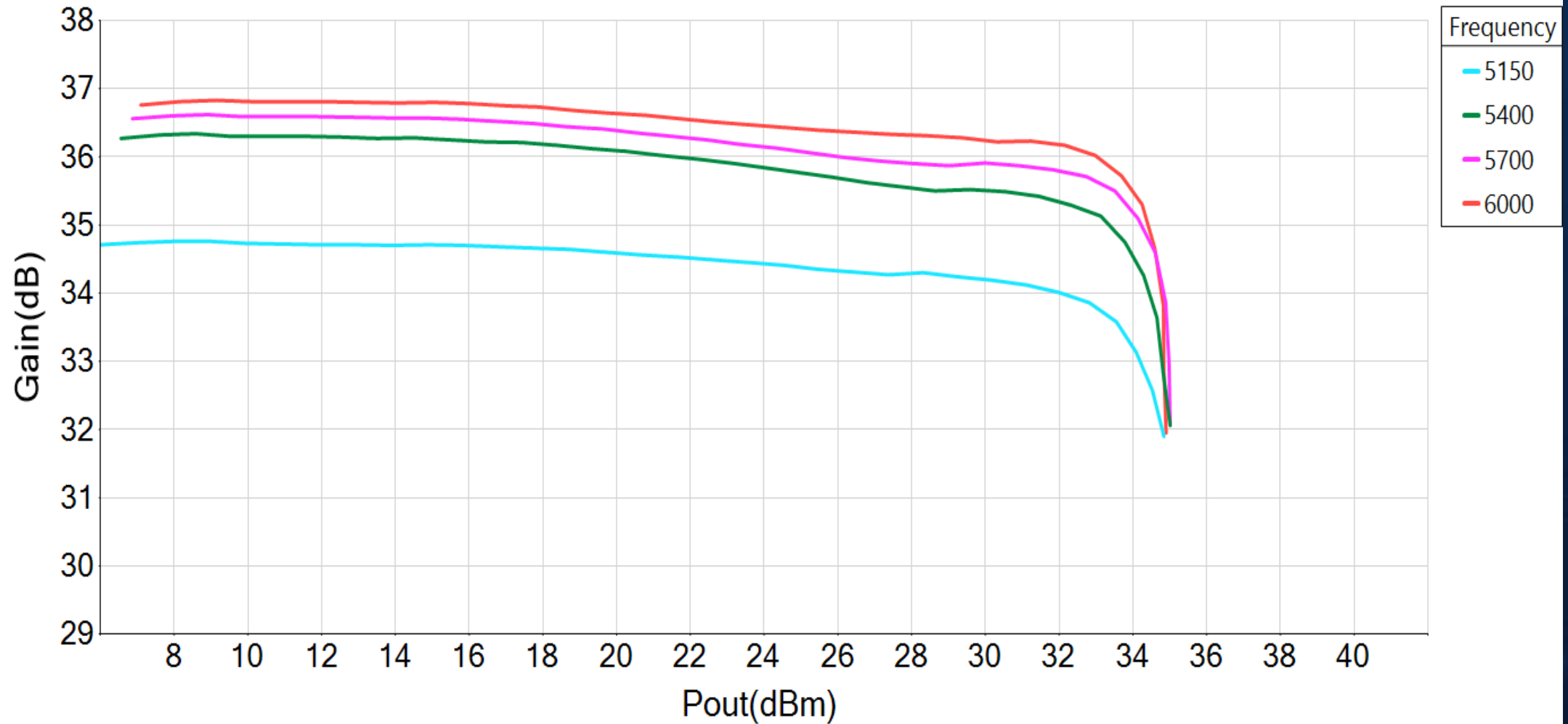


GRF5857 Standard Data Table

Configuration	Temp(°C)	Freq (MHz)	Vcc (V)	Vbias (V)	Ven (Vshdn)	IcqT (mA)	Pout/Ptone (dBm)	SS Gain (dB)	Tone Spacing (MHz)	OIP3 (dBm)	PSAT (dBm)
Single	Room	5150	5	5	0	260	26	34.8	0.6	43	34.9
Single	Room	5400	5	5	0	260	26	36.3	0.6	43.7	35
Single	Room	5700	5	5	0	260	26	36.6	0.6	45	35
Single	Room	6000	5	5	0	260	26	36.8	0.6	45.2	34.9
Configuration	Temp(°C)	Freq (MHz)	Vcc (V)	Vbias (V)	Ven (Vshdn)	IcqT (mA)	Pout/Ptone (dBm)	SS Gain (dB)	Tone Spacing (MHz)	OIP3 (dBm)	PSAT (dBm)
2X	Room	5150	5	5	0	530	26	34	0.6	45.5	37.5
2X	Room	5200	5	5	0	530	26	34.4	0.6	46.3	37.6
2X	Room	5400	5	5	0	530	26	35.6	0.6	48.4	37.4
2X	Room	5700	5	5	0	530	26	36.5	0.6	47.6	37.2
2X	Room	6000	5	5	0	530	26	36.9	0.6	45.3	36.8
Configuration	Temp(°C)	Freq (MHz)	Vcc (V)	Vbias (V)	Ven (Vshdn)	IcqT (mA)	Pout/Ptone (dBm)	SS Gain (dB)	Tone Spacing (MHz)	OIP3 (dBm)	PSAT (dBm)
4X	Room	5150	5	5	0	1050	26	33.7	0.6	46	40.6
4X	Room	5200	5	5	0	1050	26	34.1	0.6	45.8	40.6
4X	Room	5400	5	5	0	1050	26	35.2	0.6	45.2	40.5
4X	Room	5700	5	5	0	1050	26	36.2	0.6	46.1	40.5
4X	Room	6000	5	5	0	1050	26	36.7	0.6	47.1	40

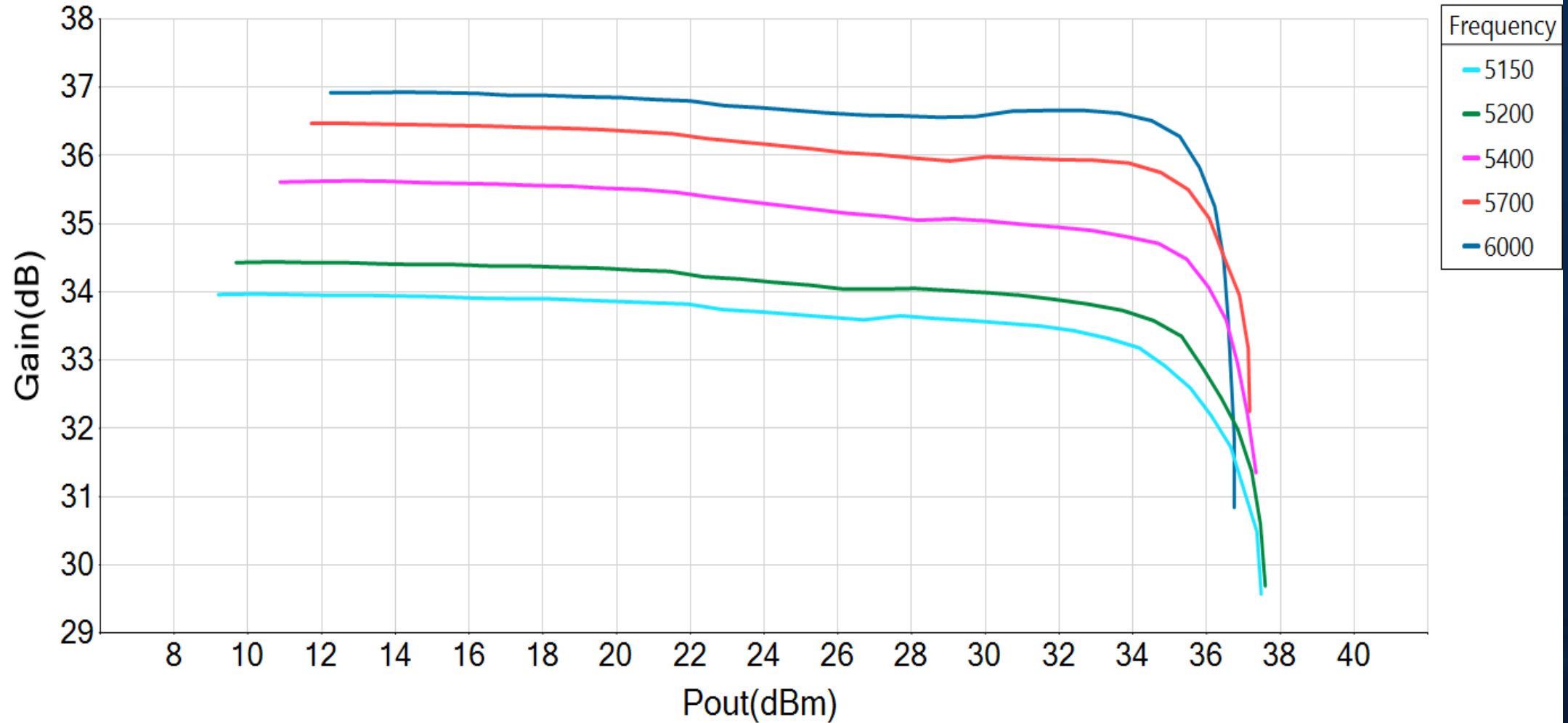
Single GRF5857

GRF5857 Gain vs Pout at Descriptor = Single PA



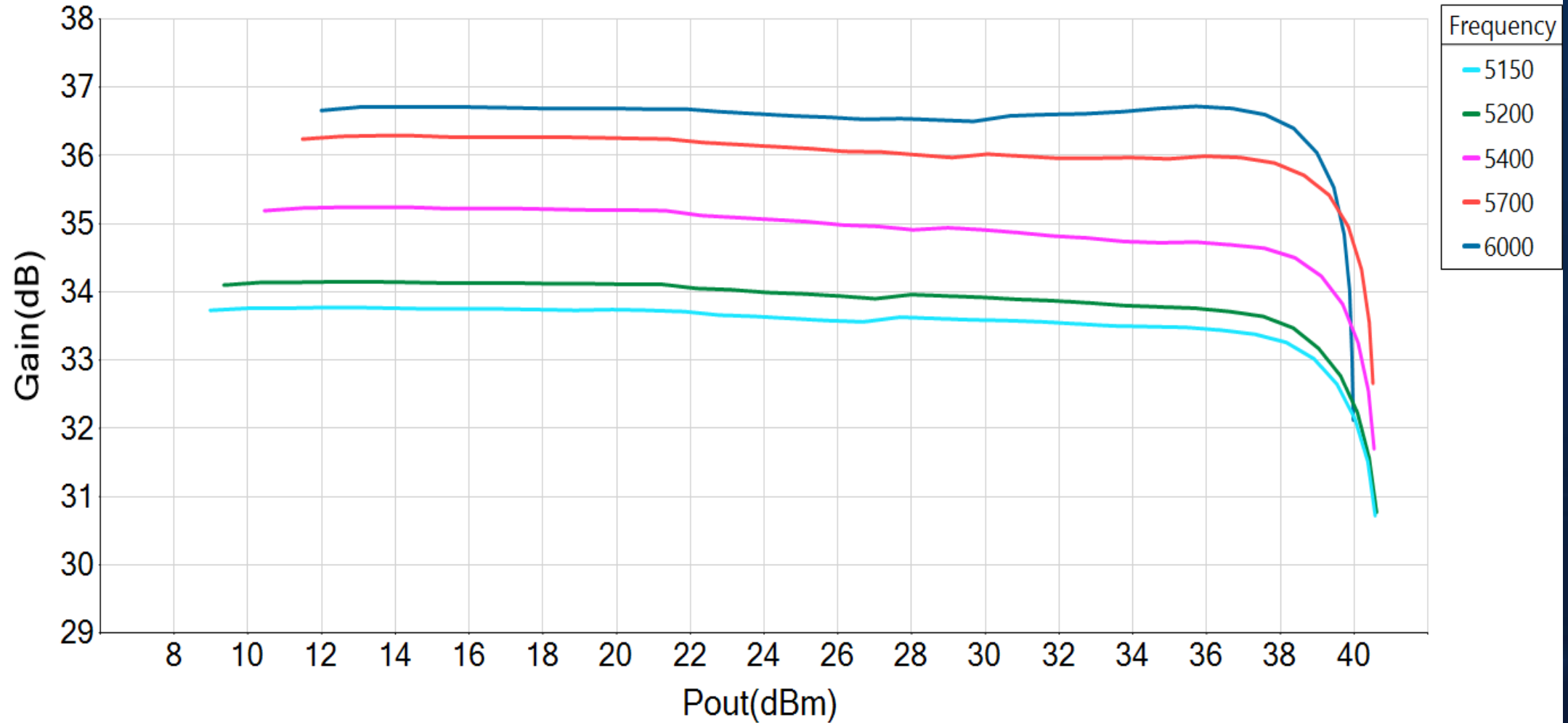
2X GRF5857

GRF5857 X2 Gain vs Pout at Descriptor = Hybrid Combined



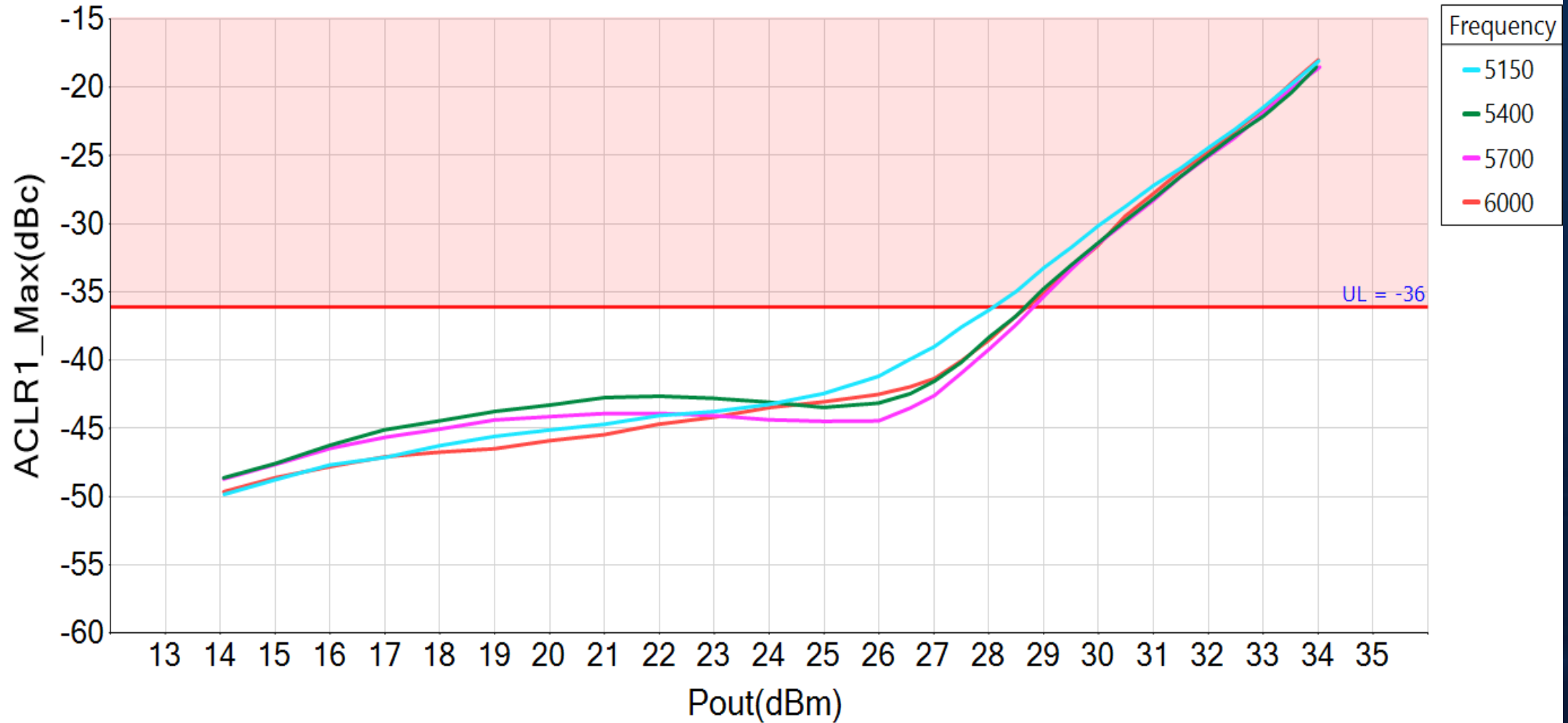
4X GRF5857

GRF5857 X4 Gain vs Pout at Descriptor = Hybrid Combined



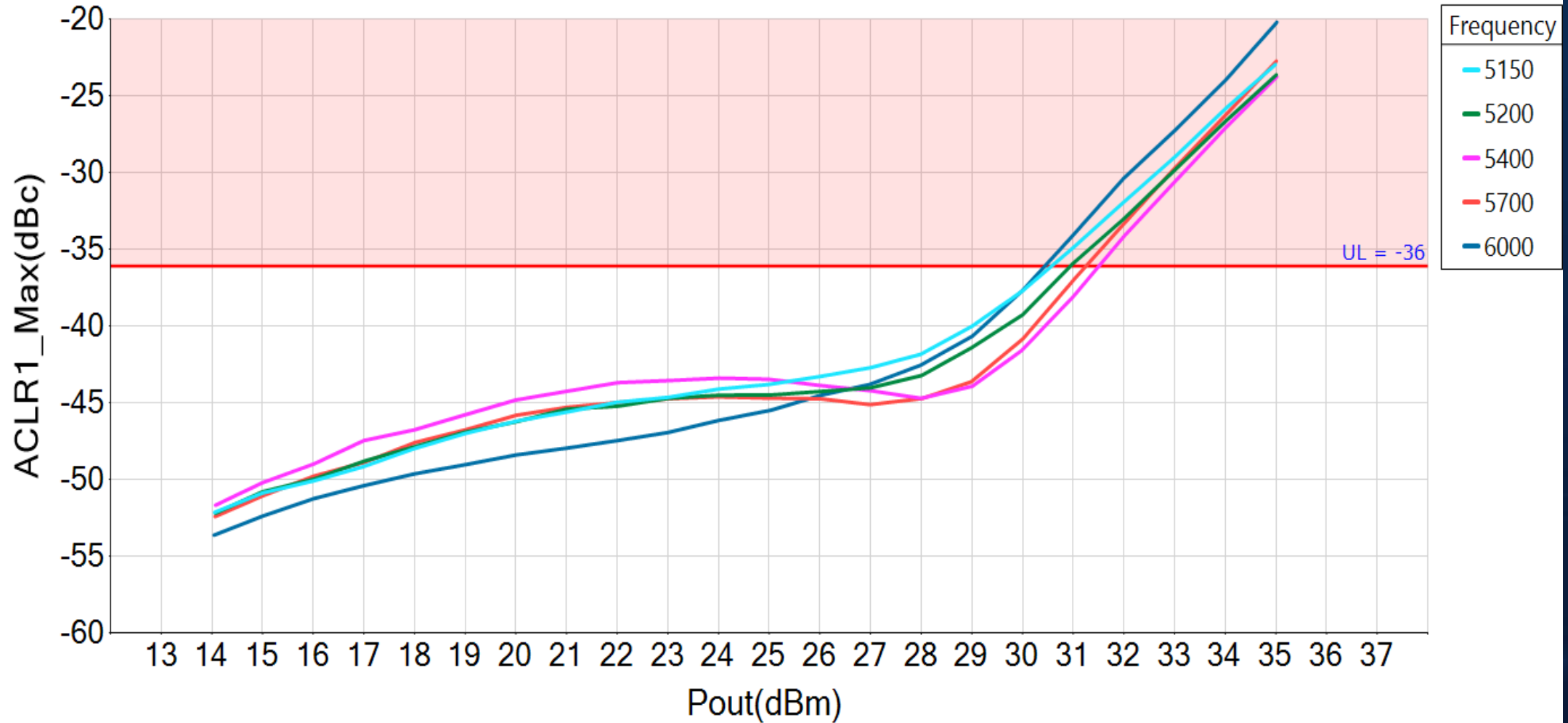
Single GRF5857

GRF5857 ACLR1 vs Pout at Descriptor = Single PA



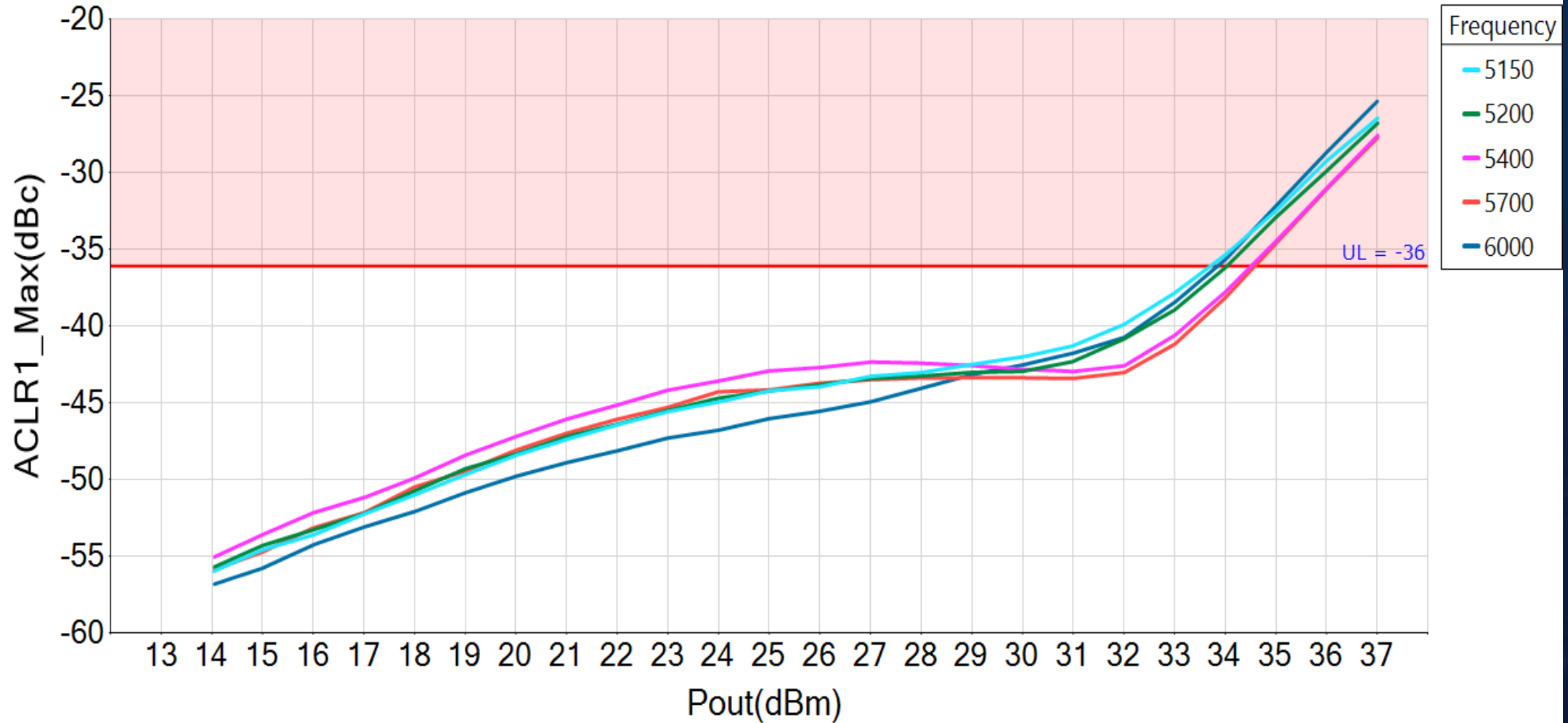
2X GRF5857

GRF5857 X2 ACLR1 vs Pout at Descriptor = Hybrid Combined



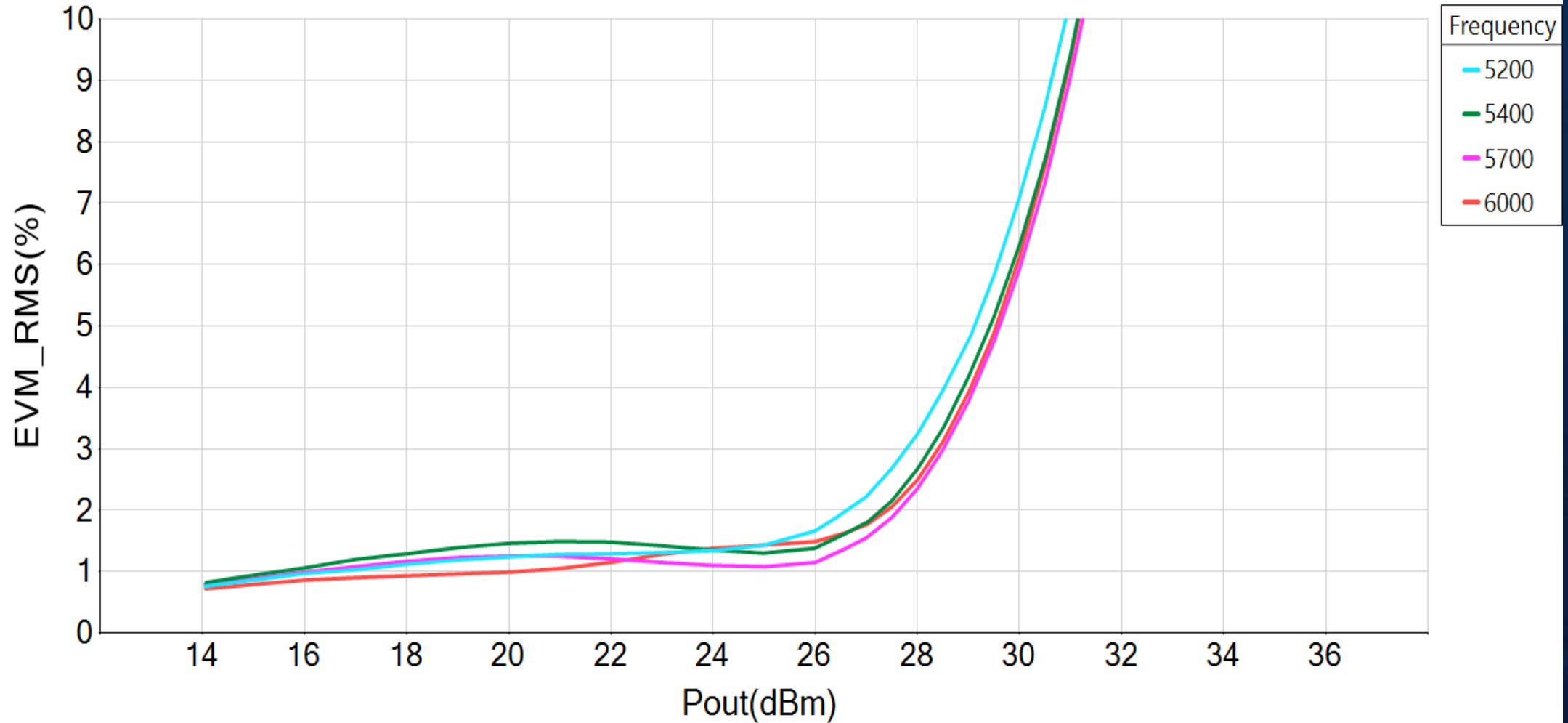
4X GRF5857

GRF5857 X4 ACLR1 vs Pout at Descriptor = Retest for ACLR



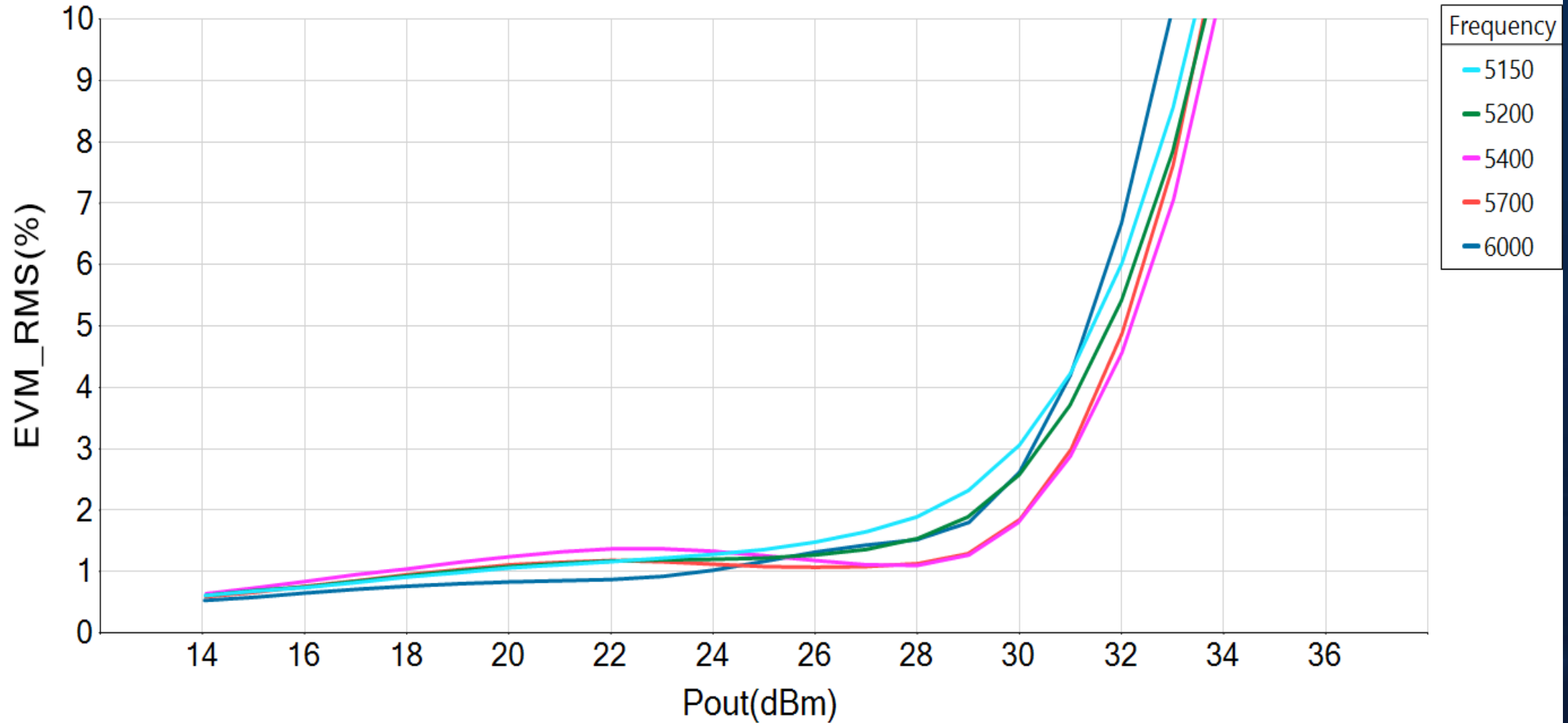
Single GRF5857

GRF5857 EVM_RMS vs Pout at SerNum = Single



2X GRF5857

GRF5857 X2 EVM_RMS vs Pout at Descriptor = Hybrid Combined



4X GRF5857

GRF5857 X4 EVM_RMS vs Pout at Descriptor = Retest for ACLR

