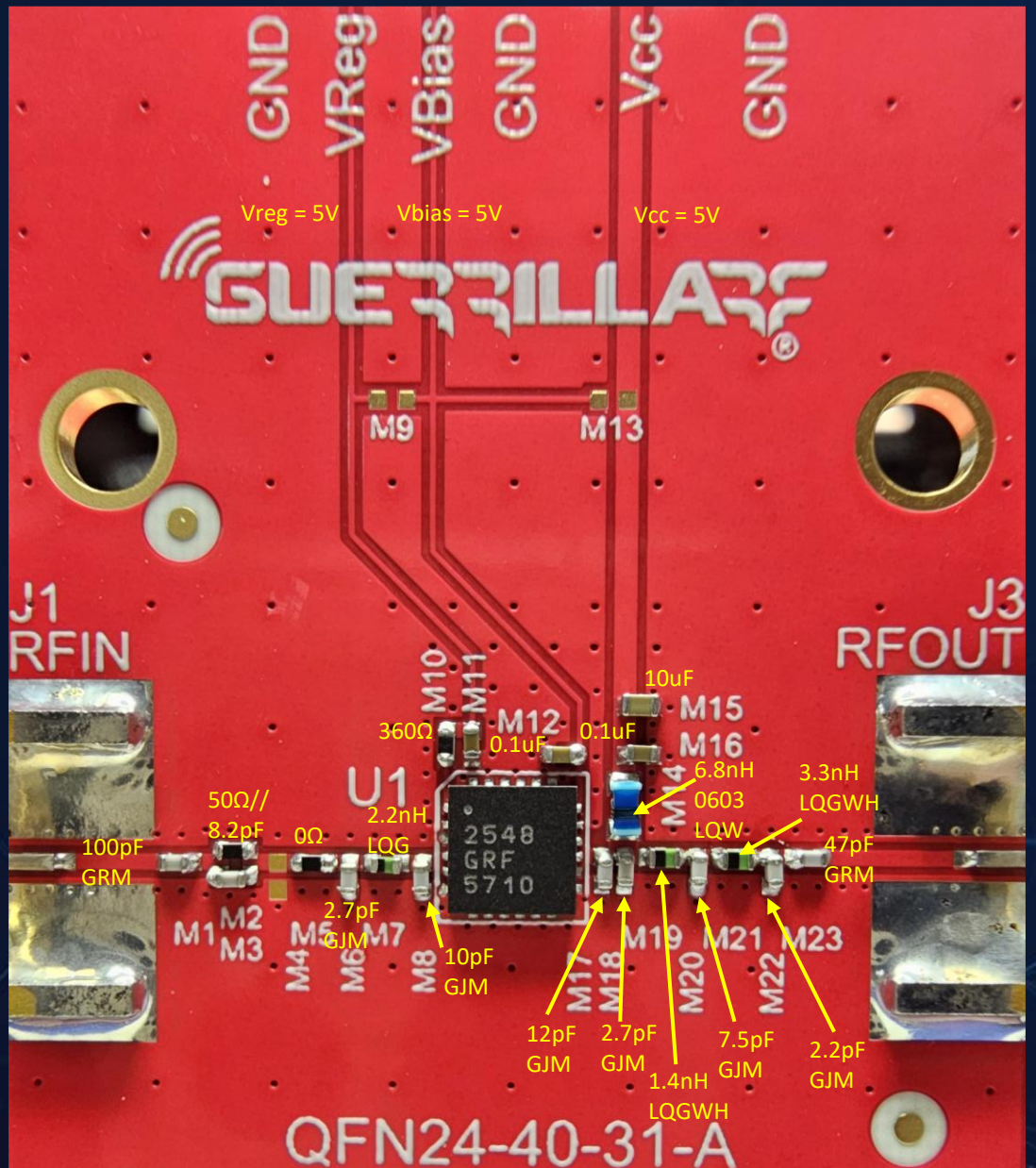
GRF5710 - #174-#175

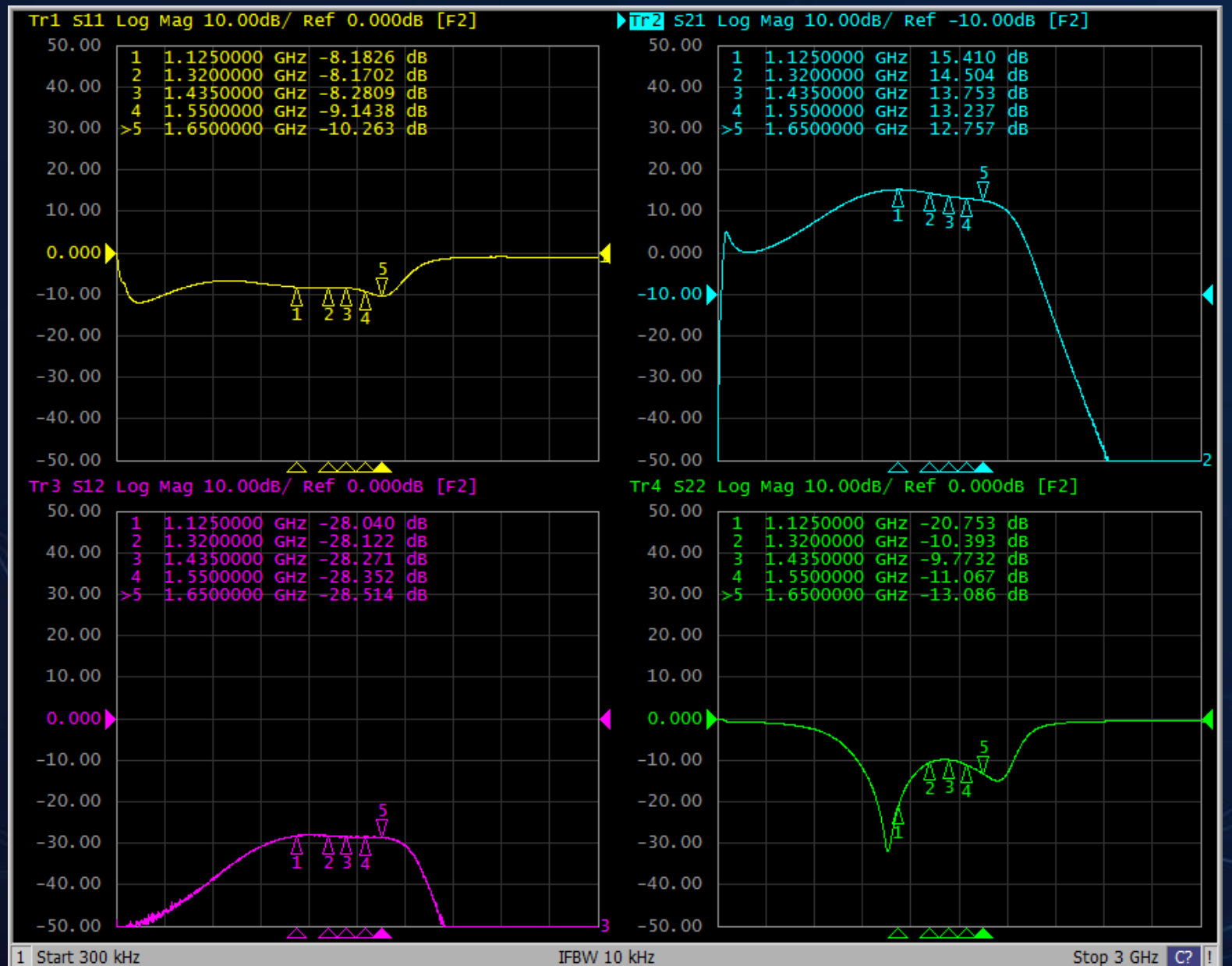
1125 to 1650MHz 5V

SEPTEMBER 14, 2026

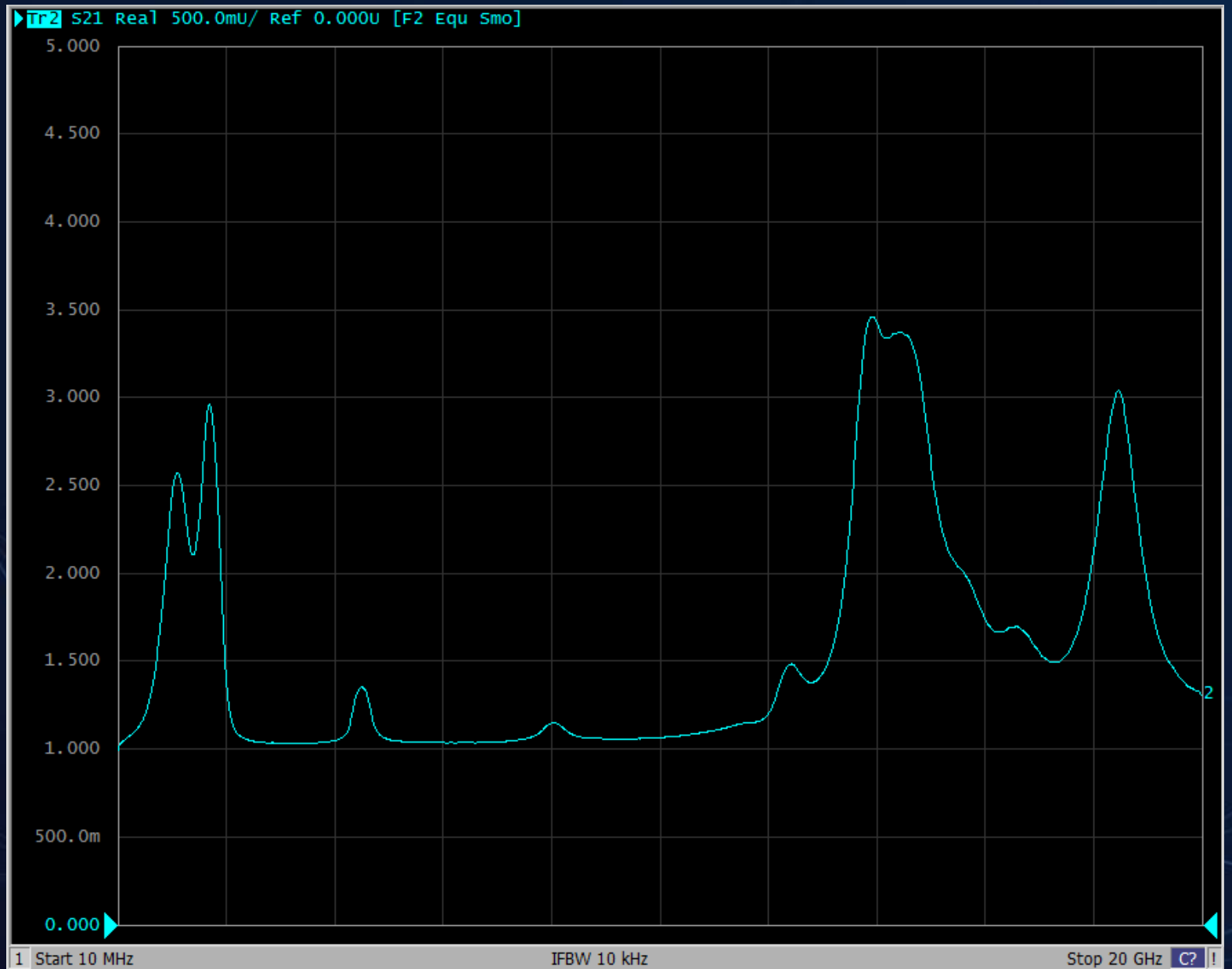
GRF5710 1125-1650MHz 5V Custom BOM



GRF5710 Small Signal Response



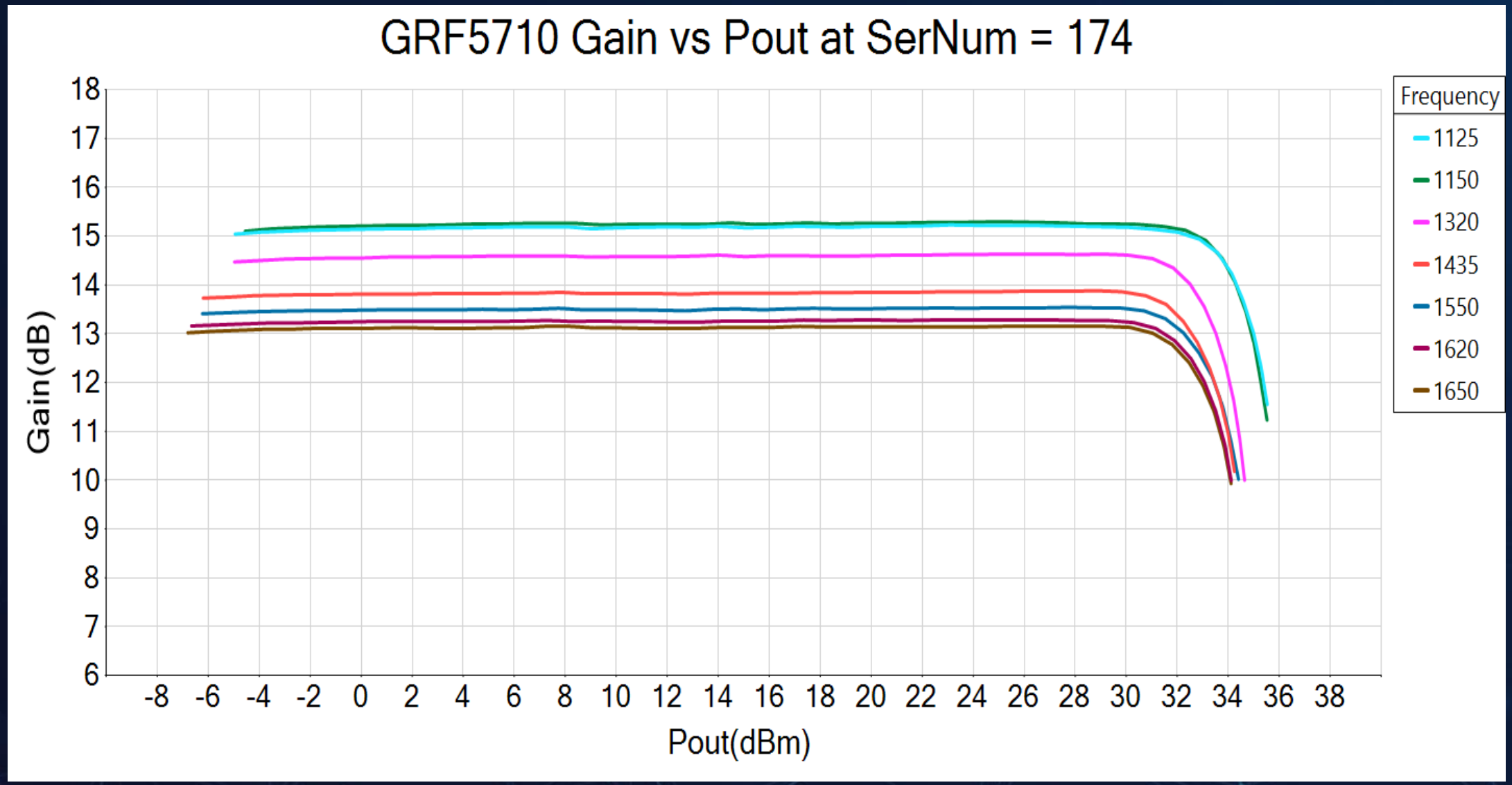
GRF5710 Stability MU

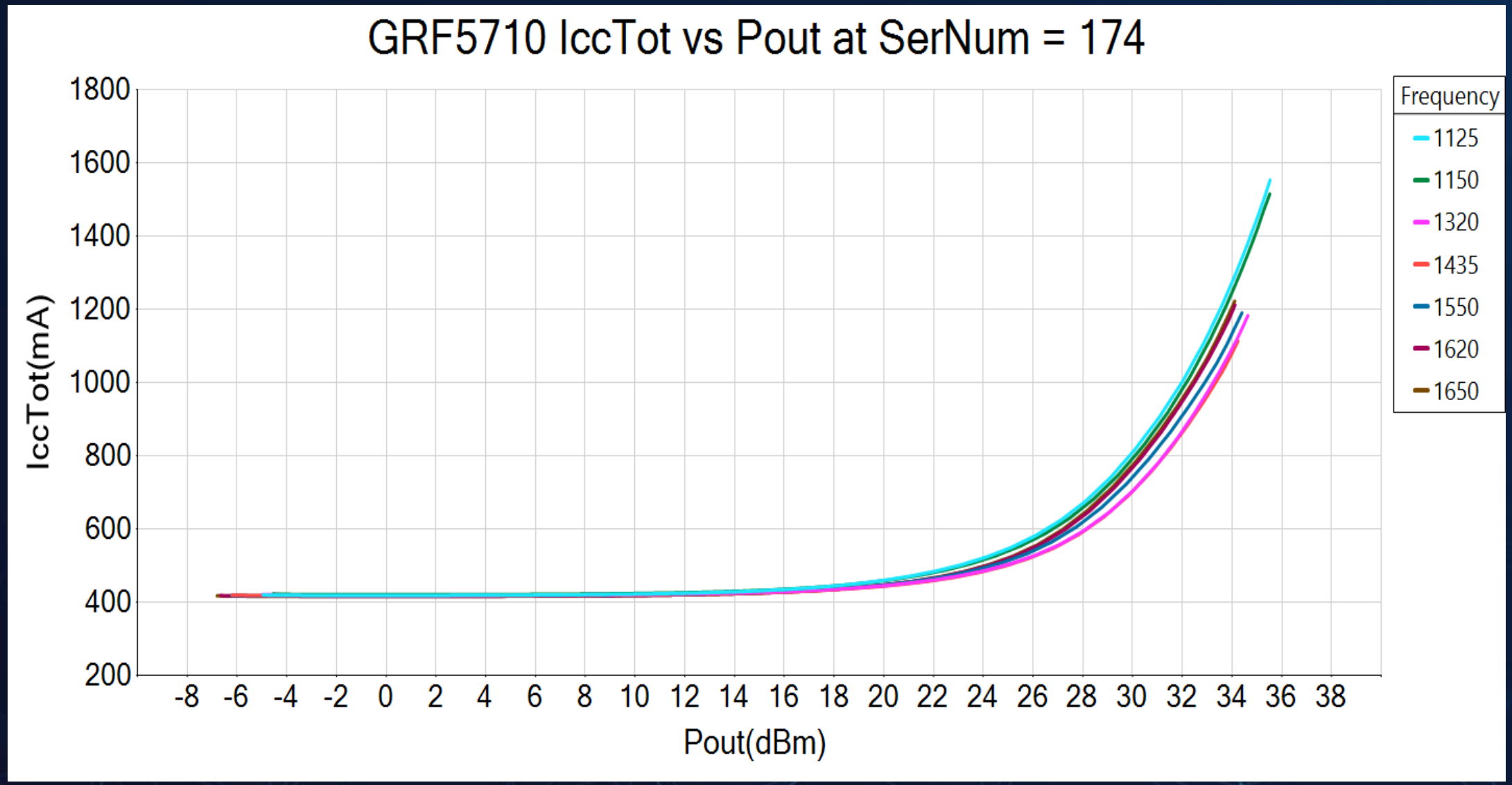


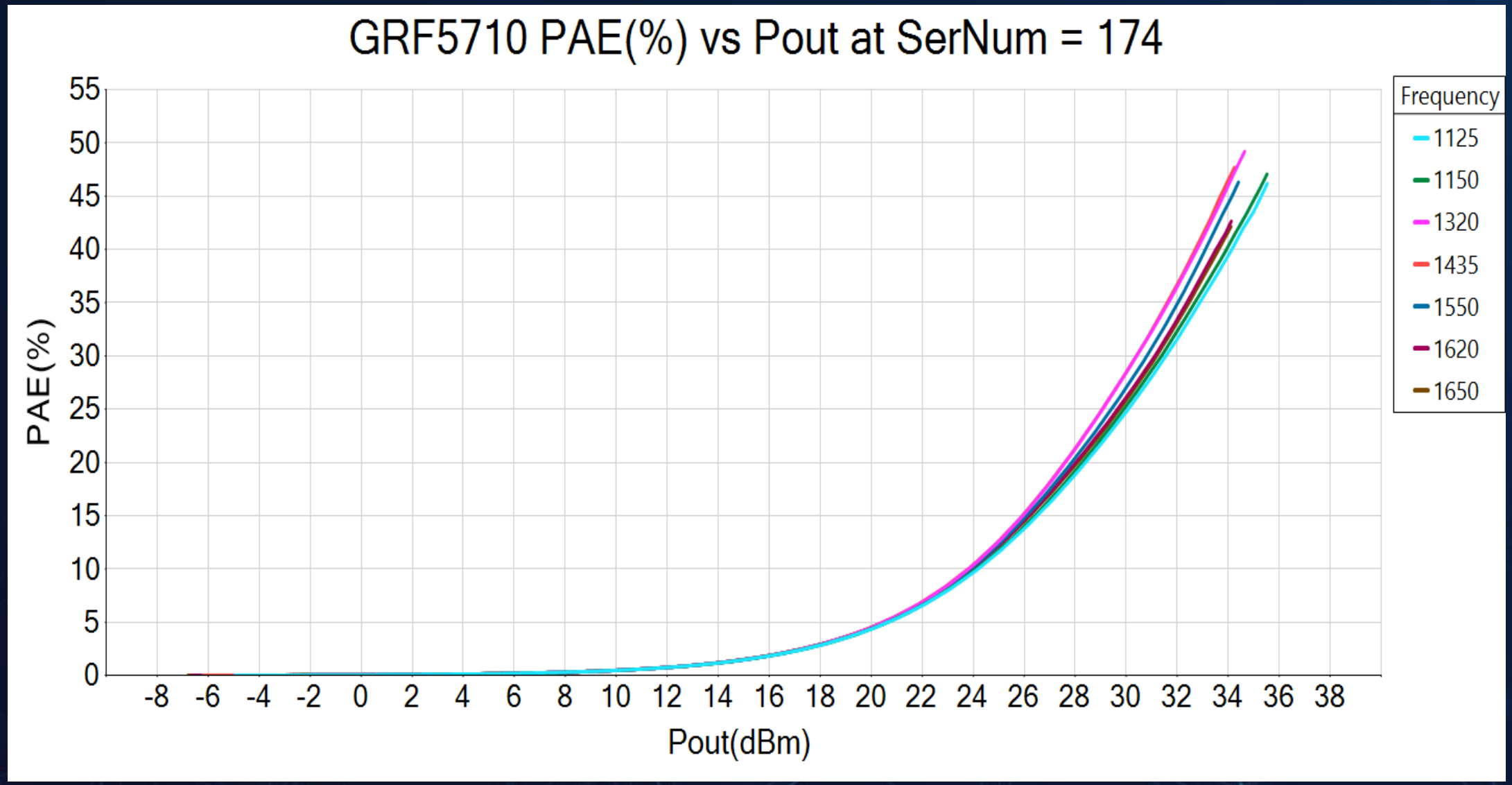
GRF5710 Standard Data Table

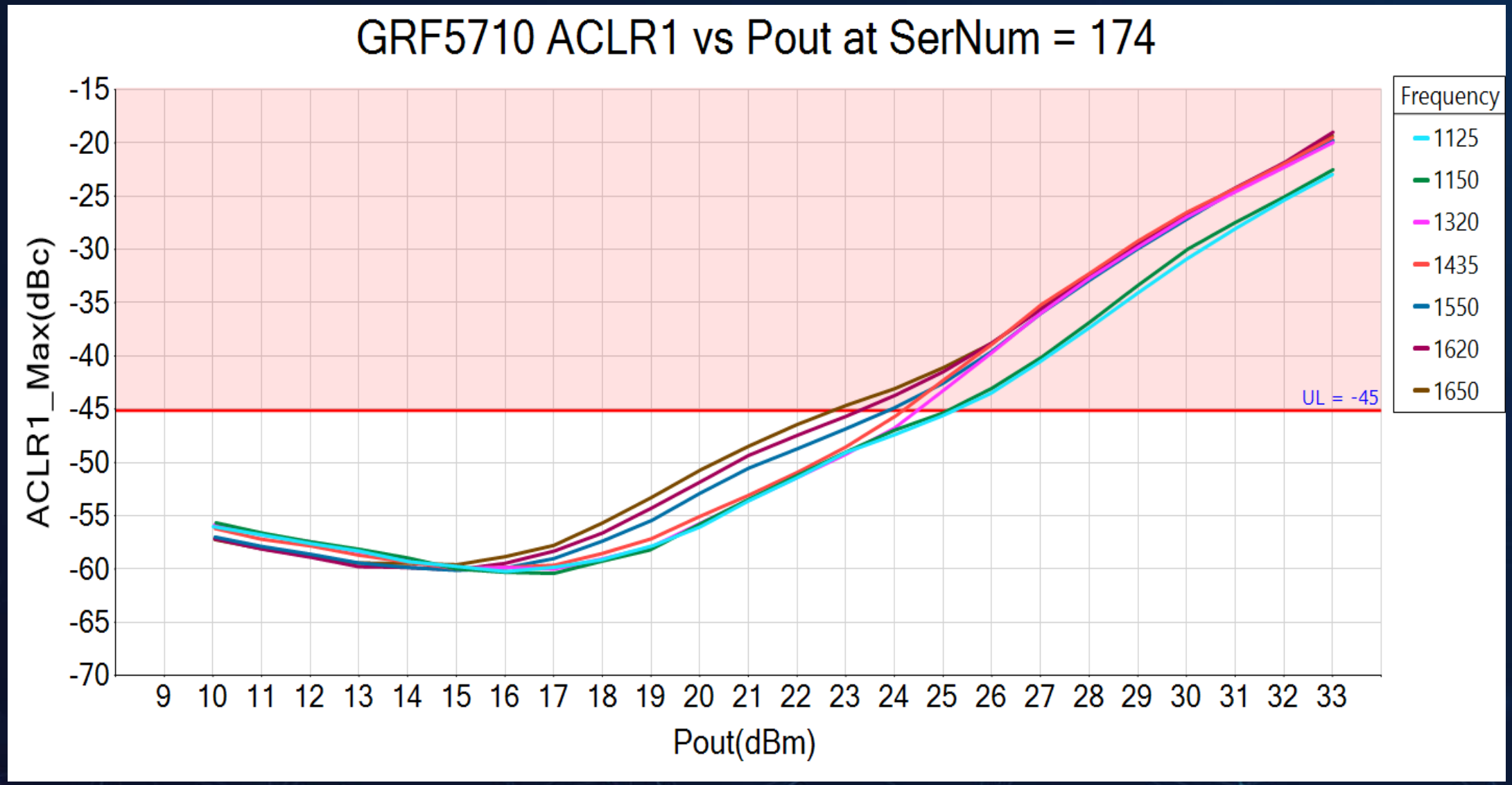
Serial #	Temp(°C)	Freq (MHz)	Vcc (V)	Vbias (V)	Vreg (V)	IcqT (mA)	Pout/Ptone (dBm)	Gain (dB)	Tone Spacing (MHz)	OIP3 (dBm)	IP1dB (dBm)	OP1dB (dBm)	PAE @ OP1dB (%)
174	Room	1125	5	5	5	420	23	15.2	0.6	46.3	20.4	34.5	41.7
174	Room	1150	5	5	5	420	23	15.3	0.6	45.5	19.7	34.2	41.2
174	Room	1320	5	5	5	420	23	14.6	0.6	45.3	19	33.1	41.3
174	Room	1435	5	5	5	420	23	13.9	0.6	45.6	20	32.8	40.4
174	Room	1550	5	5	5	420	23	13.5	0.6	43.9	20.3	33.1	40
174	Room	1620	5	5	5	420	23	13.3	0.6	42.9	20.6	33	37.3
174	Room	1650	5	5	5	420	23	13.1	0.6	42.4	20.7	32.9	36.8

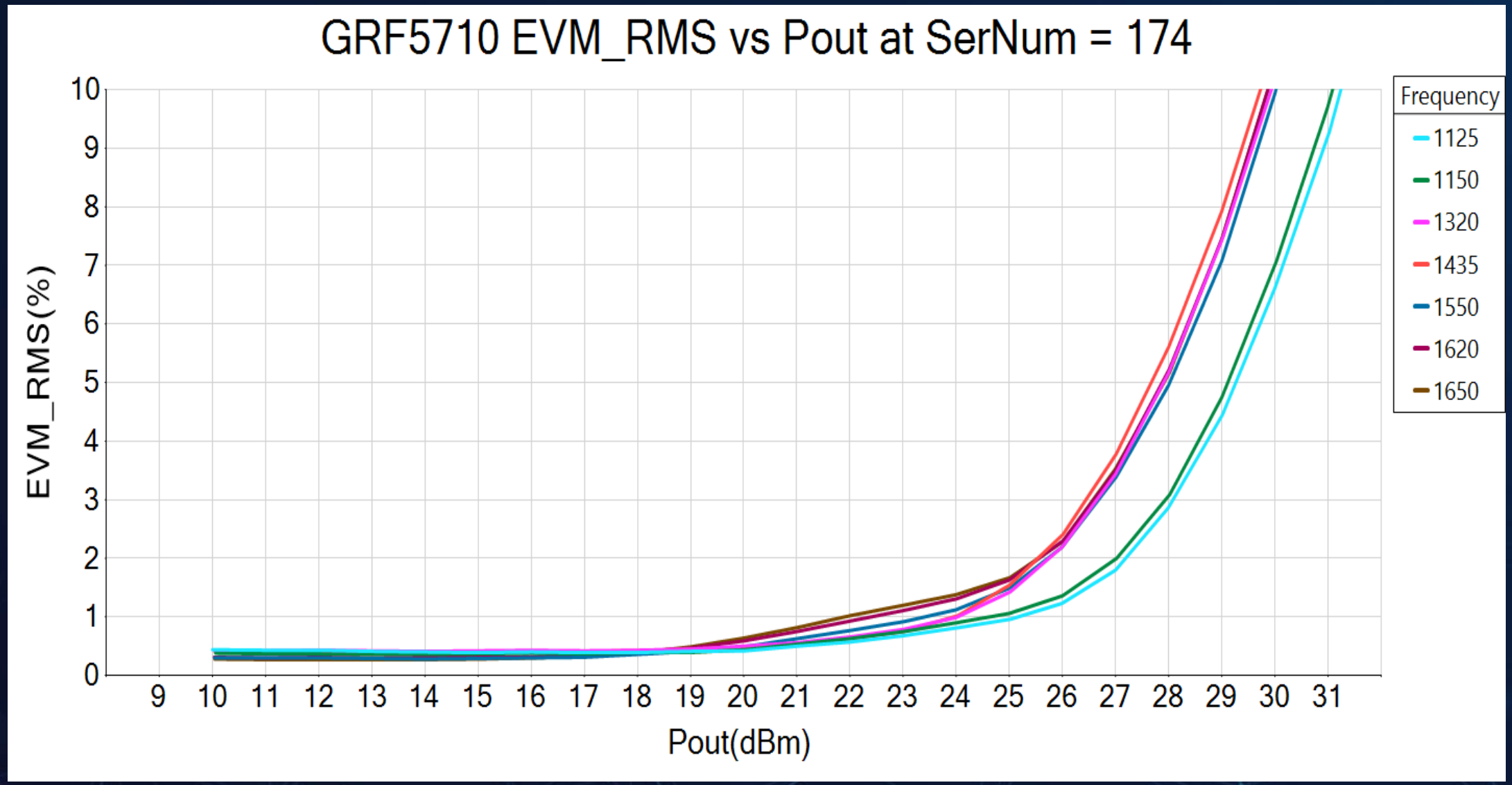
Serial #	Temp(°C)	Freq (MHz)	Vcc (V)	Vbias (V)	Vreg (V)	IcqT (mA)	Pout/Ptone (dBm)	Gain (dB)	Tone Spacing (MHz)	OIP3 (dBm)	IP1dB (dBm)	OP1dB (dBm)	PAE @ OP1dB (%)
175	Room	1125	5	5	5	450	23	15.3	0.6	46.9	20.4	34.5	41.6
175	Room	1150	5	5	5	450	23	15.4	0.6	46.4	19.6	34.3	41.3
175	Room	1320	5	5	5	450	23	14.5	0.6	46.5	19.1	33.1	41.9
175	Room	1435	5	5	5	450	23	13.6	0.6	46.8	20.3	32.9	41.4
175	Room	1550	5	5	5	450	23	13.3	0.6	45.1	20.3	33.2	40.2
175	Room	1620	5	5	5	450	23	13	0.6	43.9	21.1	33.2	38
175	Room	1650	5	5	5	450	23	12.9	0.6	43.1	21.3	33.2	37.2

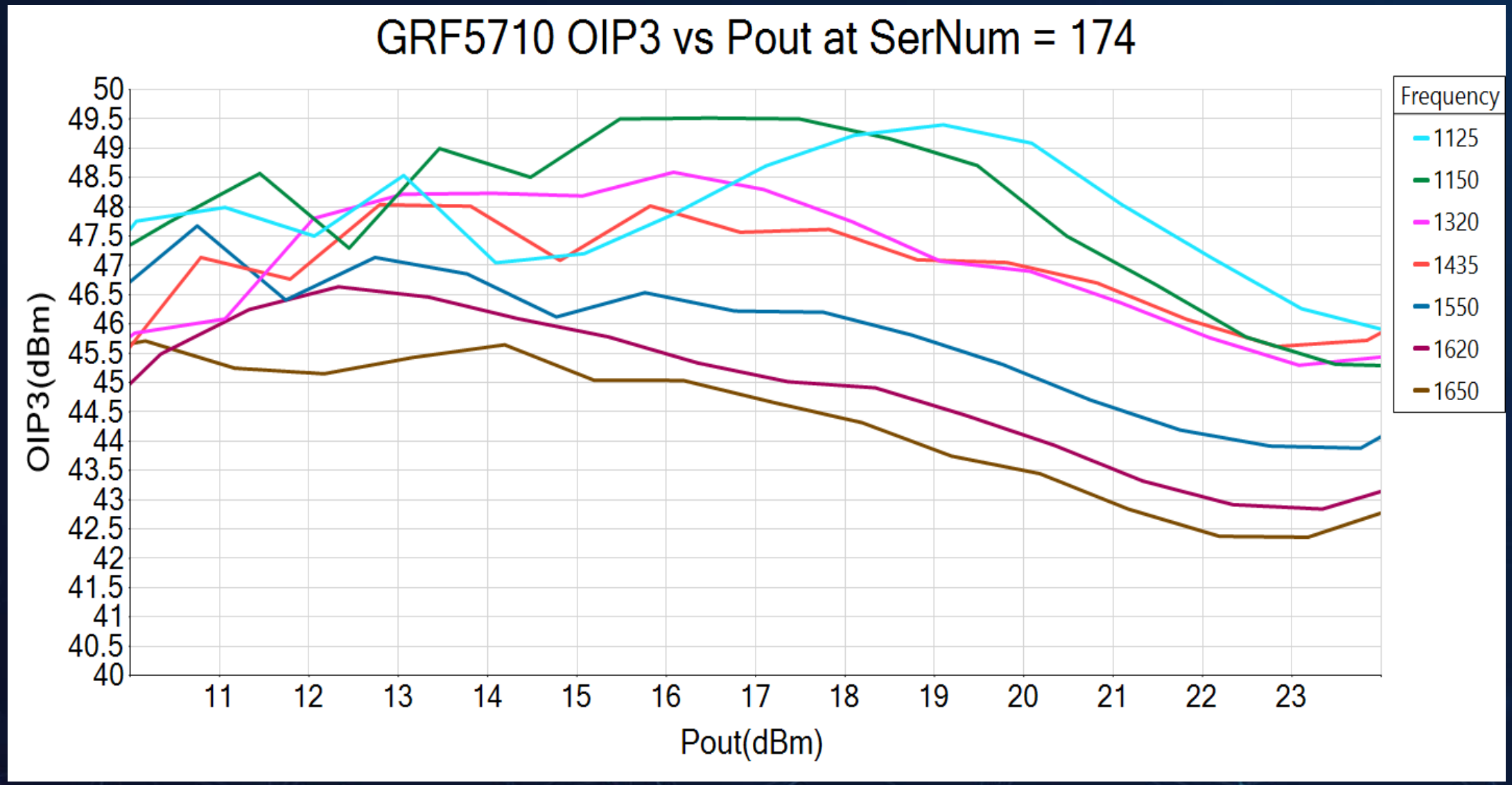

GRF5710 Gain vs Pout at SerNum = 174
Gain(dB)
18
17
16
15
14
13
12
11
10
9
8
7
6
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650

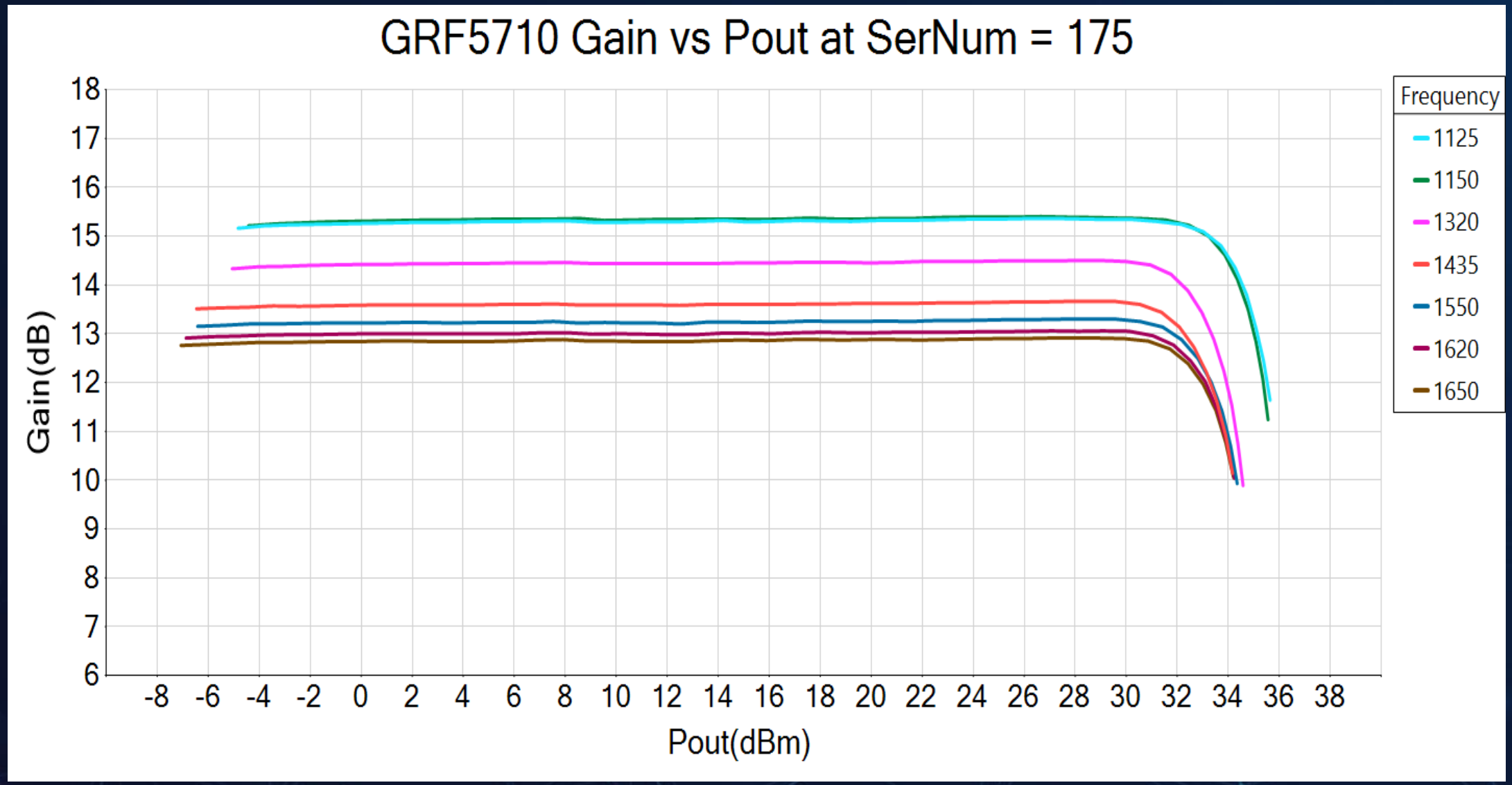

GRF5710 IccTot vs Pout at SerNum = 174
IccTot(mA)
1800
1600
1400
1200
1000
800
600
400
200
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650

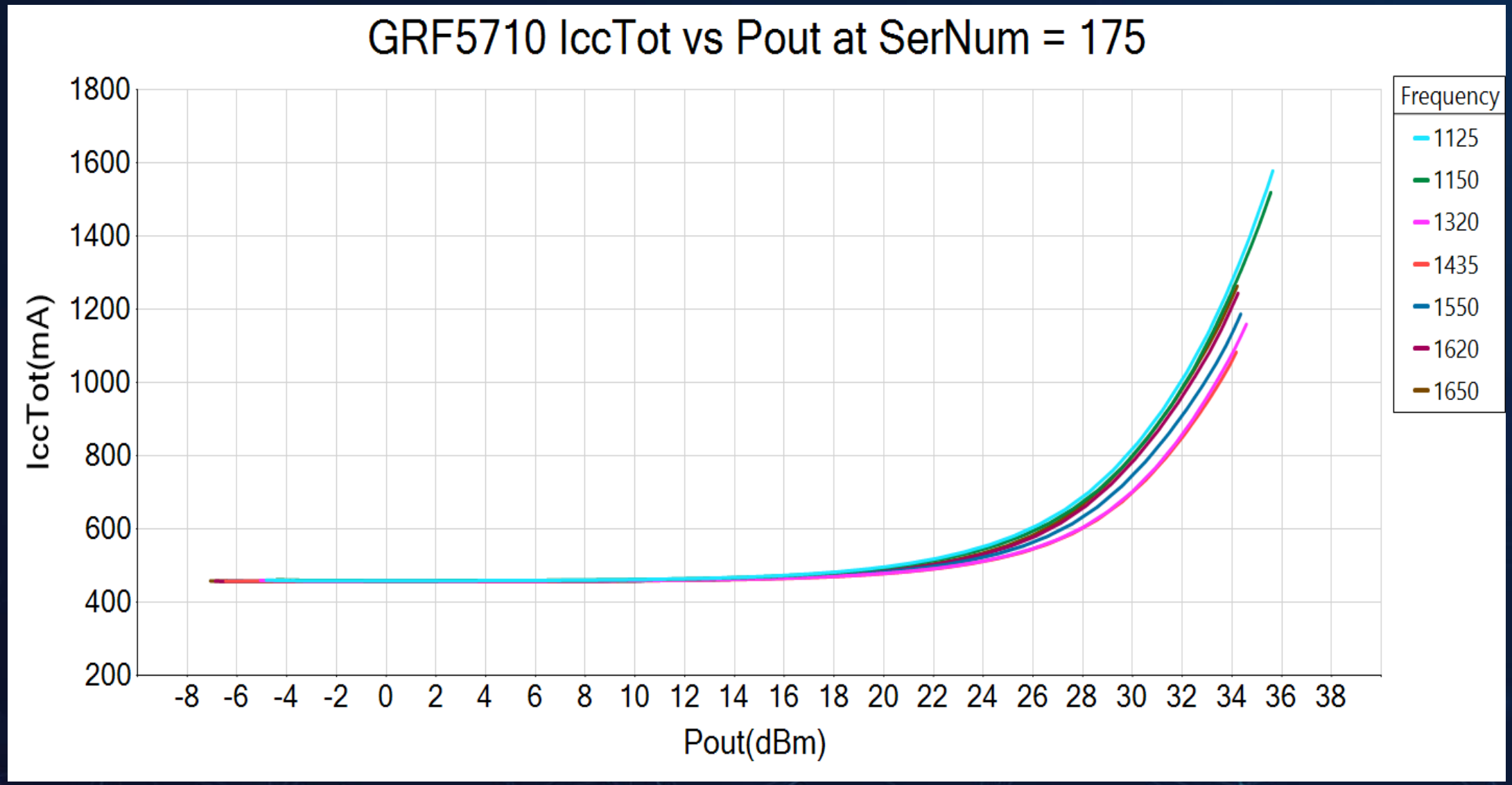

GRF5710 PAE(%) vs Pout at SerNum = 174
PAE(%)
55
50
45
40
35
30
25
20
15
10
5
0
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650

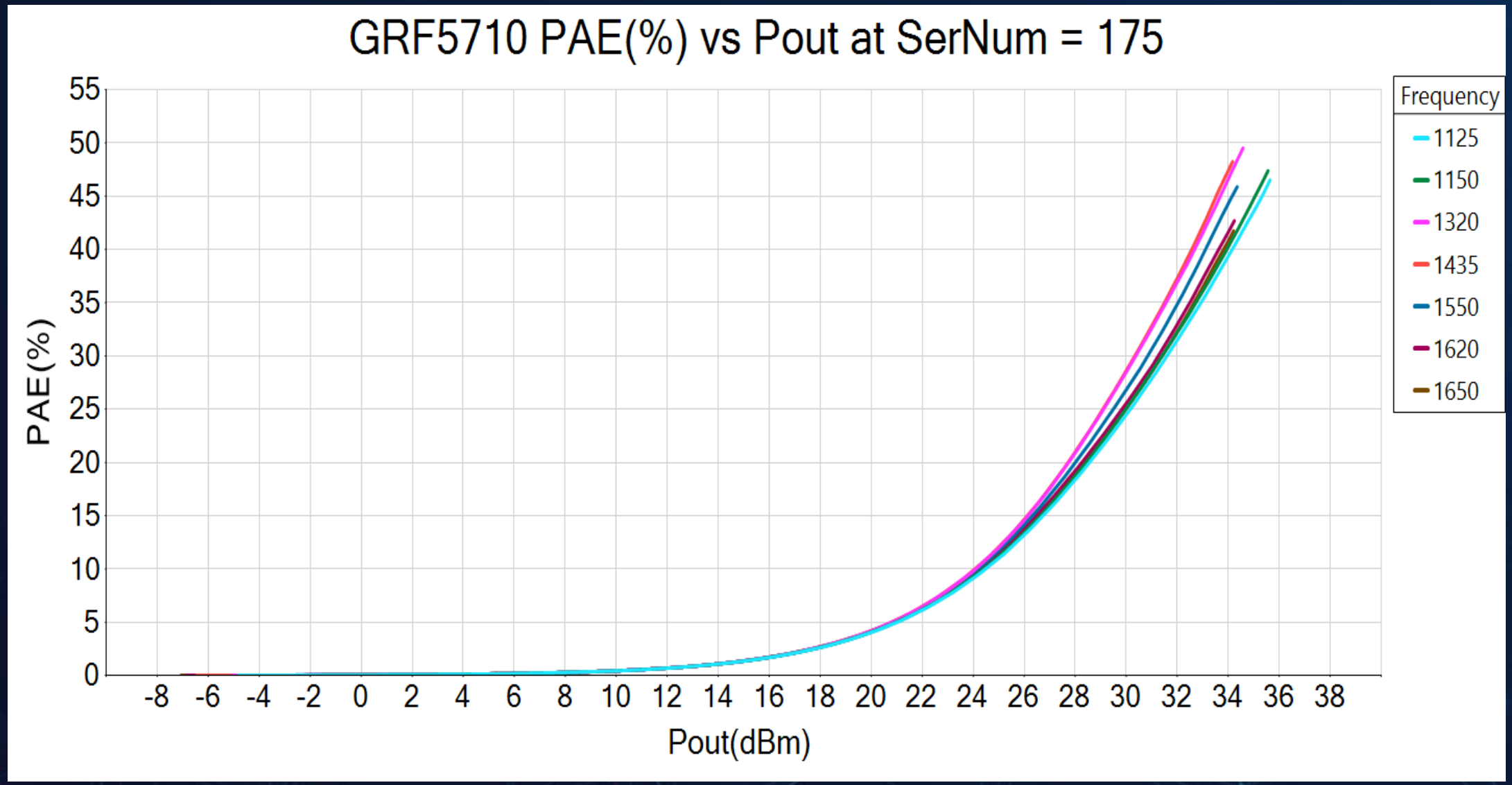

GRF5710 ACLR1 vs Pout at SerNum = 174
ACLR1_Max(dBc)
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
Pout(dBm)
UL = -45
Frequency
1125
1150
1320
1435
1550
1620
1650

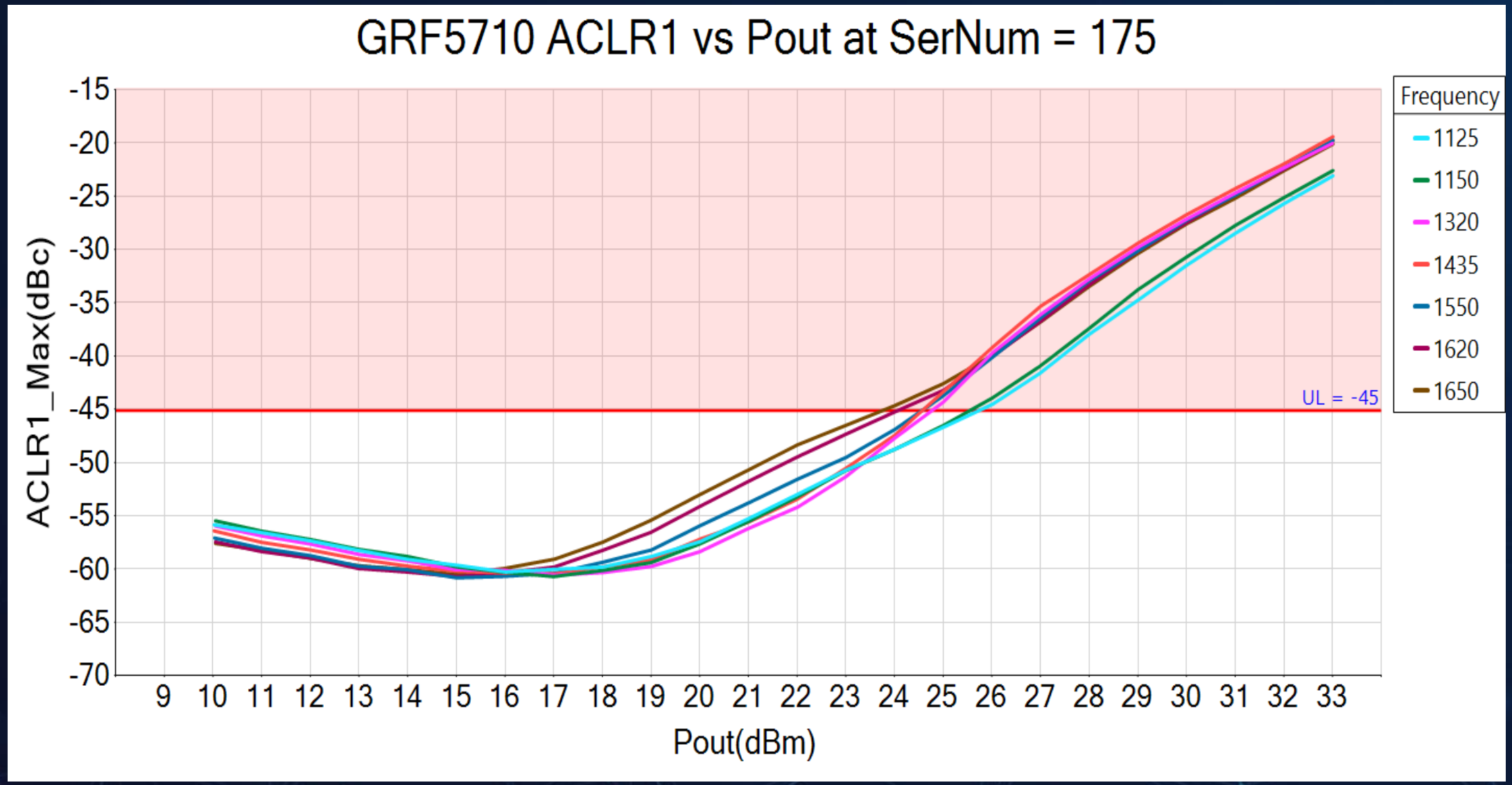

GRF5710 EVM_RMS vs Pout at SerNum = 174
EVM_RMS(%)
0
1
2
3
4
5
6
7
8
9
10
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650

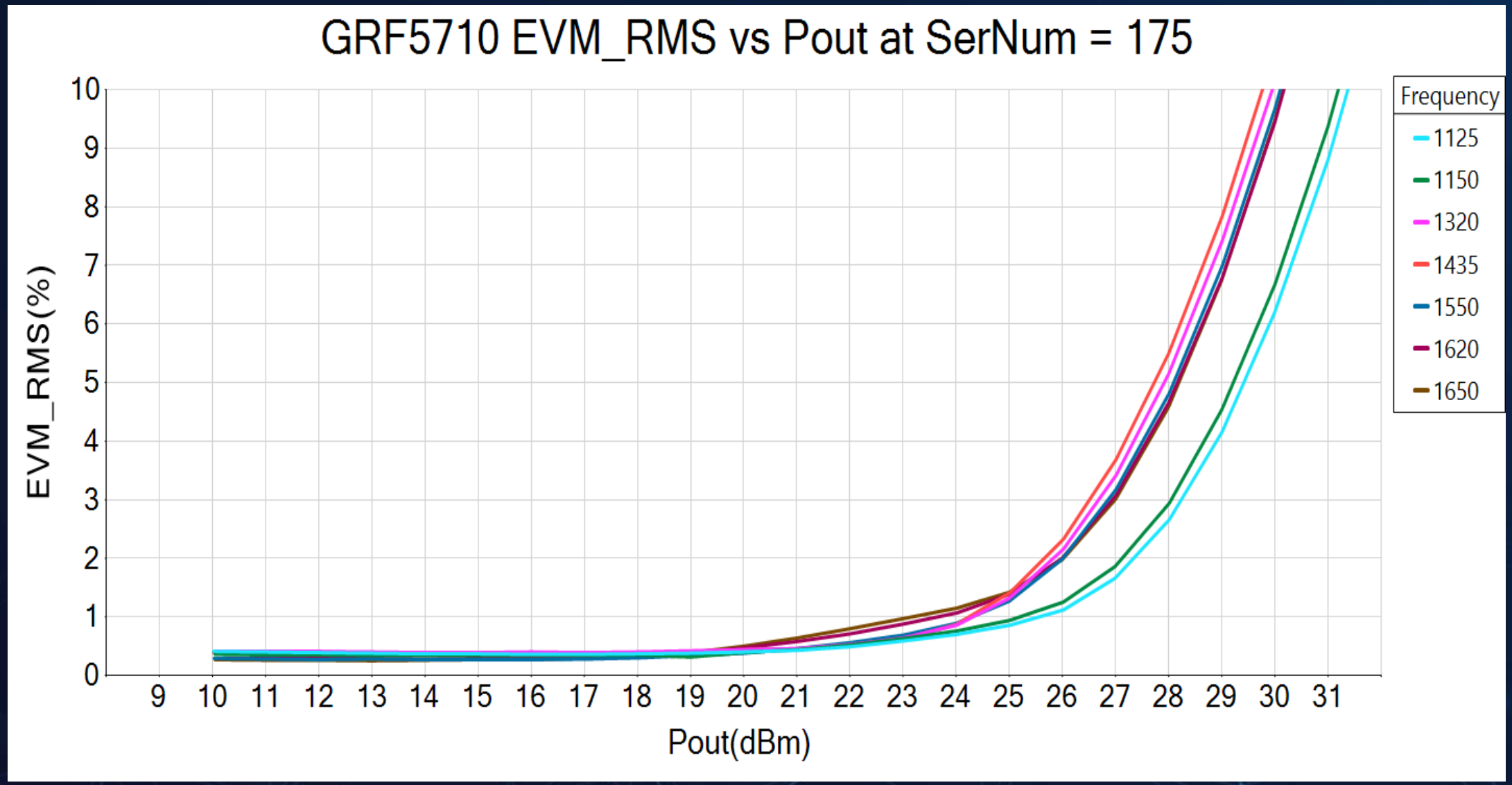

GRF5710 OIP3 vs Pout at SerNum = 174
OIP3(dBm)
50
49.5
49
48.5
48
47.5
47
46.5
46
45.5
45
44.5
44
43.5
43
42.5
42
41.5
41
40.5
40
11
12
13
14
15
16
17
18
19
20
21
22
23
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650

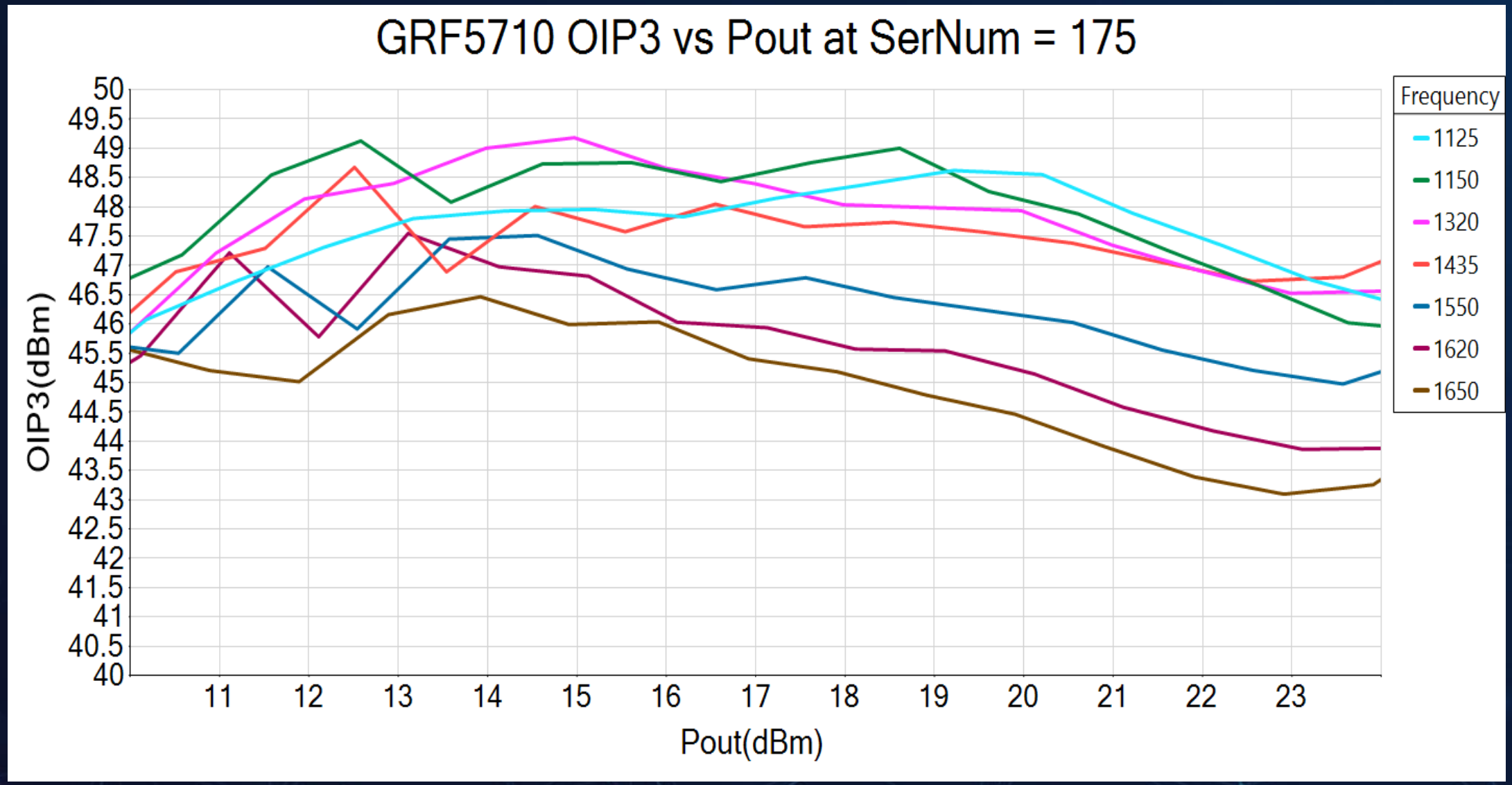

GRF5710 Gain vs Pout at SerNum = 175
Gain(dB)
18
17
16
15
14
13
12
11
10
9
8
7
6
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650


GRF5710 IccTot vs Pout at SerNum = 175
IccTot(mA)
1800
1600
1400
1200
1000
800
600
400
200
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650


GRF5710 PAE(%) vs Pout at SerNum = 175
PAE(%)
55
50
45
40
35
30
25
20
15
10
5
0
-8 -6 -4 -2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650


GRF5710 ACLR1 vs Pout at SerNum = 175
ACLR1_Max(dBc)
-15
-20
-25
-30
-35
-40
-45
-50
-55
-60
-65
-70
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
Pout(dBm)
UL = -45
Frequency
1125
1150
1320
1435
1550
1620
1650


GRF5710 EVM_RMS vs Pout at SerNum = 175
EVM_RMS(%)
0
1
2
3
4
5
6
7
8
9
10
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650


GRF5710 OIP3 vs Pout at SerNum = 175
OIP3(dBm)
50
49.5
49
48.5
48
47.5
47
46.5
46
45.5
45
44.5
44
43.5
43
42.5
42
41.5
41
40.5
40
11
12
13
14
15
16
17
18
19
20
21
22
23
Pout(dBm)
Frequency
1125
1150
1320
1435
1550
1620
1650