Peak to Average Ratio

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict
LTE Band 48	10 MHz	LCH	QPSK	RB1#0	8.2	13	Pass
				RB50#0	9.05	13	Pass
			16-QAM	RB1#0	9.09	13	Pass
				RB50#0	9.7	13	Pass
		MCH	QPSK	RB1#0	8.2	13	Pass
				RB50#0	9.14	13	Pass
			16-QAM	RB1#0	9.05	13	Pass
				RB50#0	9.89	13	Pass
		HCH	QPSK	RB1#0	8.16	13	Pass
				RB50#0	9.19	13	Pass
			16-QAM	RB1#0	8.95	13	Pass
				RB50#0	9.8	13	Pass

NR Mode Test Dat

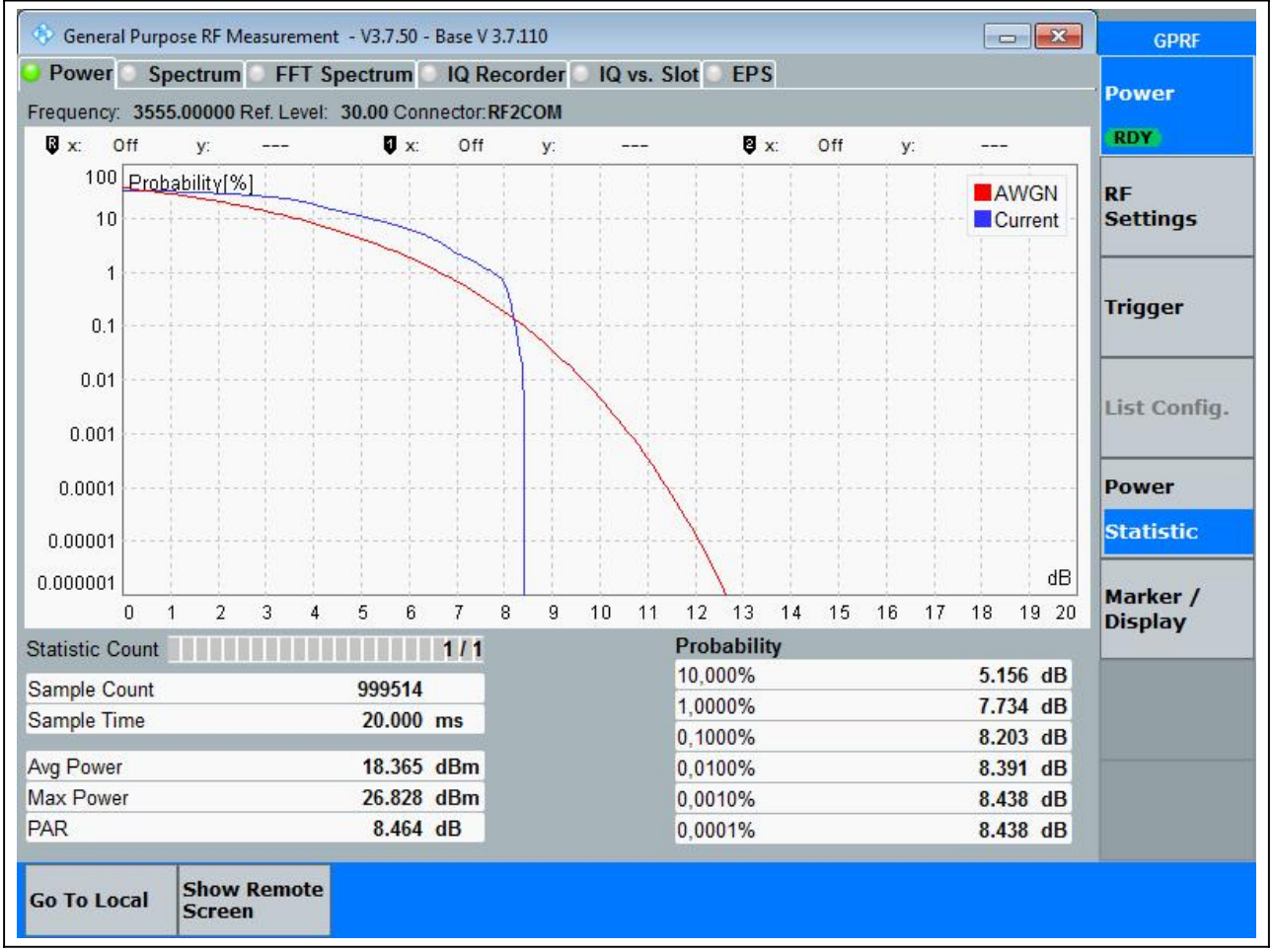
Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Peak to Average Ratio (dB)	Limit (dB)	Verdict
n48	20 MHz	LCH	PI2 BPSK	1	0	4.08	13	Pass
				50	0	4.27	13	Pass
			QPSK	1	0	5.2	13	Pass
				50	0	5.62	13	Pass
			16QAM	1	0	5.67	13	Pass
				50	0	6.28	13	Pass
			64QAM	1	0	5.62	13	Pass
				50	0	6.47	13	Pass
			256QAM	1	0	6.66	13	Pass
				50	0	6.84	13	Pass
		MCH	PI2 BPSK	1	0	4.31	13	Pass
				50	0	4.41	13	Pass
			QPSK	1	0	5.2	13	Pass
				50	0	5.62	13	Pass
			16QAM	1	0	5.72	13	Pass
				50	0	6.28	13	Pass
			64QAM	1	0	5.62	13	Pass
				50	0	6.47	13	Pass
			256QAM	1	0	6.61	13	Pass
				50	0	6.84	13	Pass
		HCH	PI2 BPSK	1	0	3.98	13	Pass
				50	0	4.36	13	Pass
			QPSK	1	0	5.2	13	Pass
				50	0	5.58	13	Pass
			16QAM	1	0	6.52	13	Pass
				50	0	6.28	13	Pass
			64QAM	1	0	5.77	13	Pass
				50	0	6.47	13	Pass
			256QAM	1	0	6.42	13	Pass
				50	0	6.8	13	Pass
	40 MHz	LCH	PI2 BPSK	1	0	3.89	13	Pass
				100	0	4.17	13	Pass
			QPSK	1	0	5.39	13	Pass
				100	0	5.39	13	Pass
			16QAM	1	0	5.86	13	Pass
				100	0	6.23	13	Pass
			64QAM	1	0	5.62	13	Pass

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Peak to Average Ratio (dB)	Limit (dB)	Verdict
				100	0	6.47	13	Pass
			256QAM	1	0	6.52	13	Pass
				100	0	6.75	13	Pass
		MCH	PI2 BPSK	1	0	3.98	13	Pass
				100	0	4.17	13	Pass
			QPSK	1	0	5.16	13	Pass
				100	0	5.53	13	Pass
			16QAM	1	0	6.47	13	Pass
				100	0	6.28	13	Pass
			64QAM	1	0	5.86	13	Pass
				100	0	6.52	13	Pass
			256QAM	1	0	6.56	13	Pass
				100	0	6.66	13	Pass
		HCH	PI2 BPSK	1	0	3.94	13	Pass
				100	0	4.22	13	Pass
			QPSK	1	0	5.44	13	Pass
				100	0	5.58	13	Pass
			16QAM	1	0	5.91	13	Pass
				100	0	6.33	13	Pass
			64QAM	1	0	5.58	13	Pass
				100	0	6.56	13	Pass
			256QAM	1	0	6.61	13	Pass
				100	0	6.66	13	Pass

2. LTE_Band48

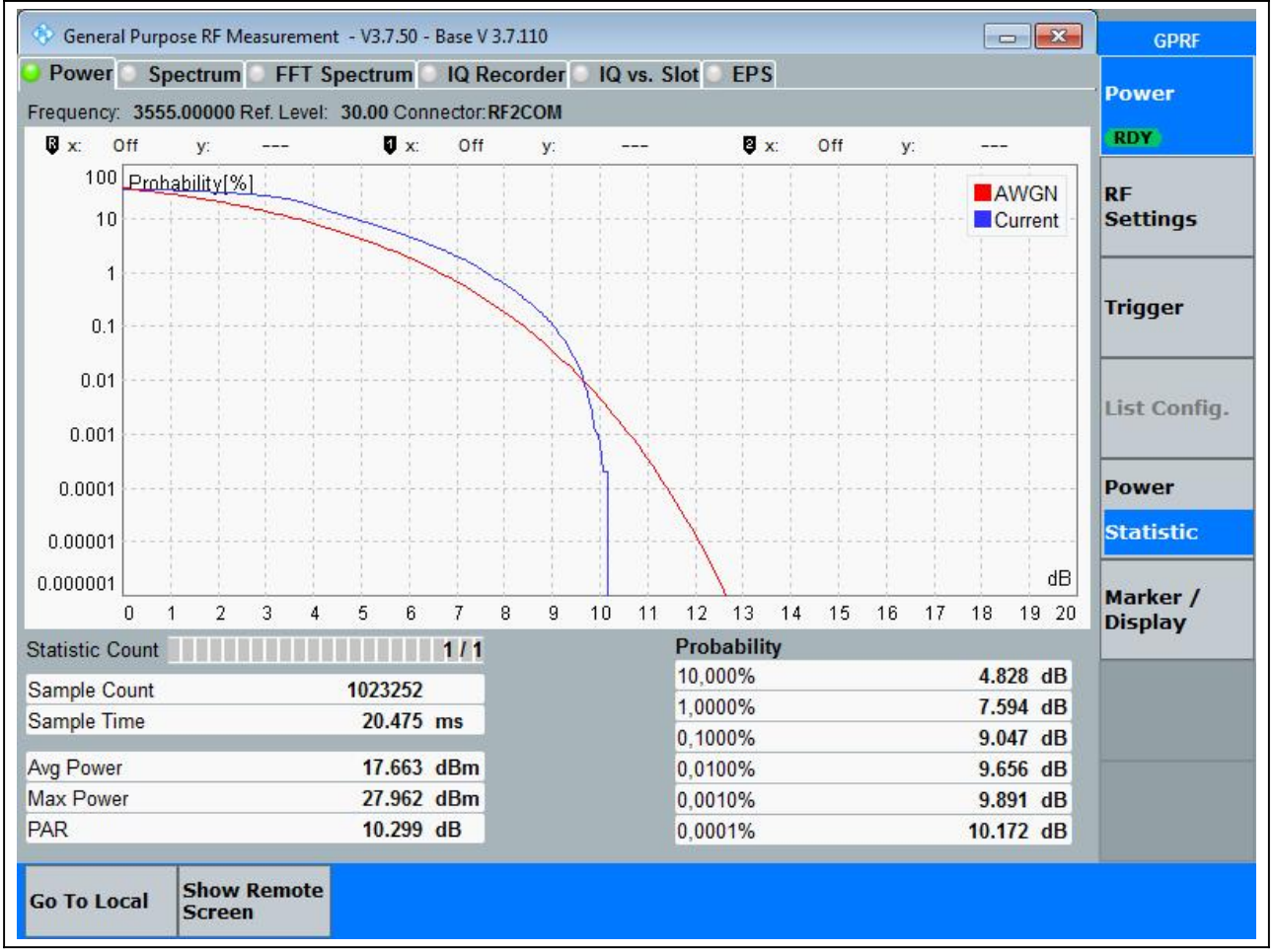
2.1 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:1, Channel:55290, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3555	0.1	8.2	13	Pass



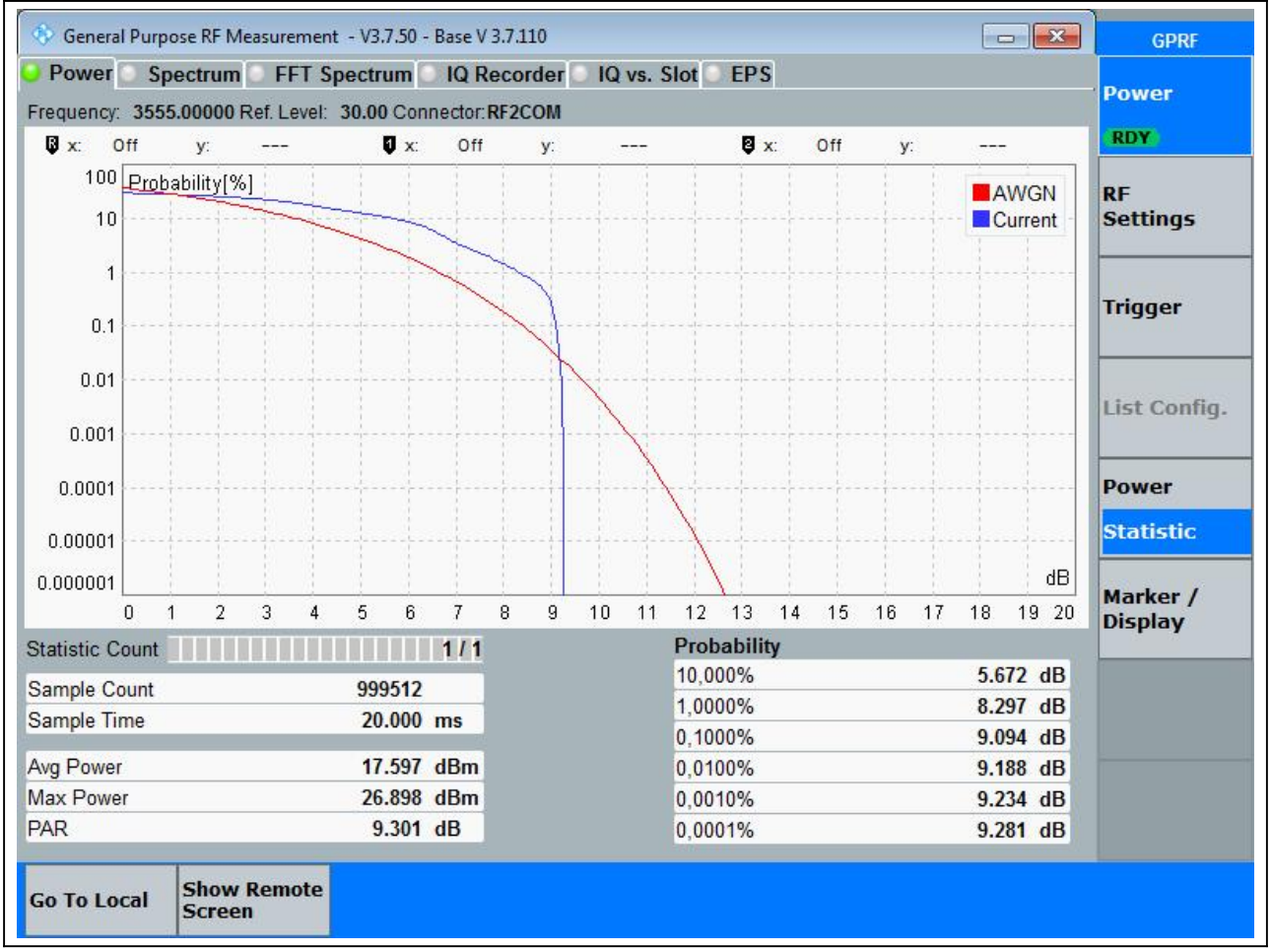
2.2 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:2, Channel:55290, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3555	0.1	9.05	13	Pass



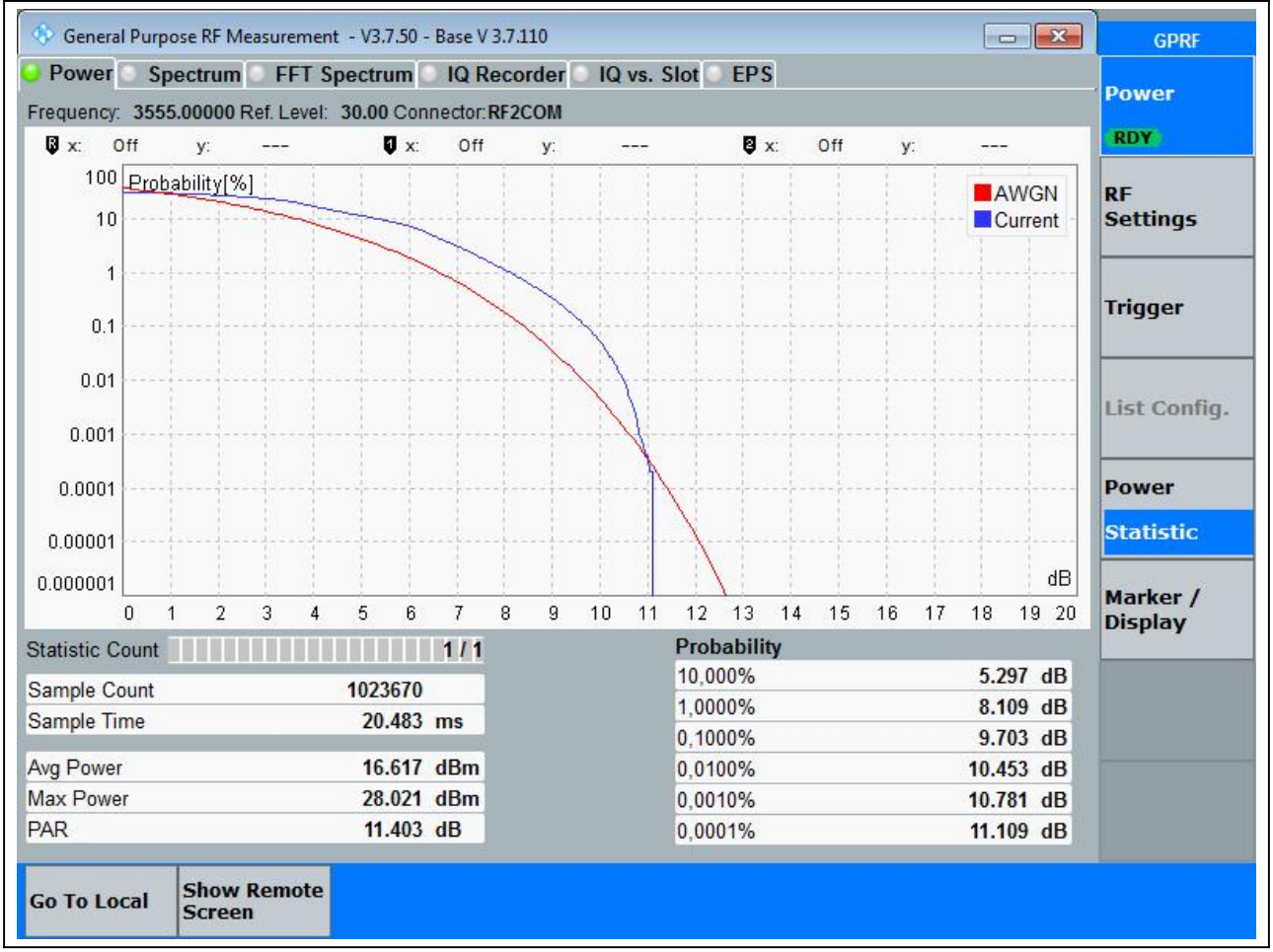
2.3 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:3, Channel:55290, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3555	0.1	9.09	13	Pass



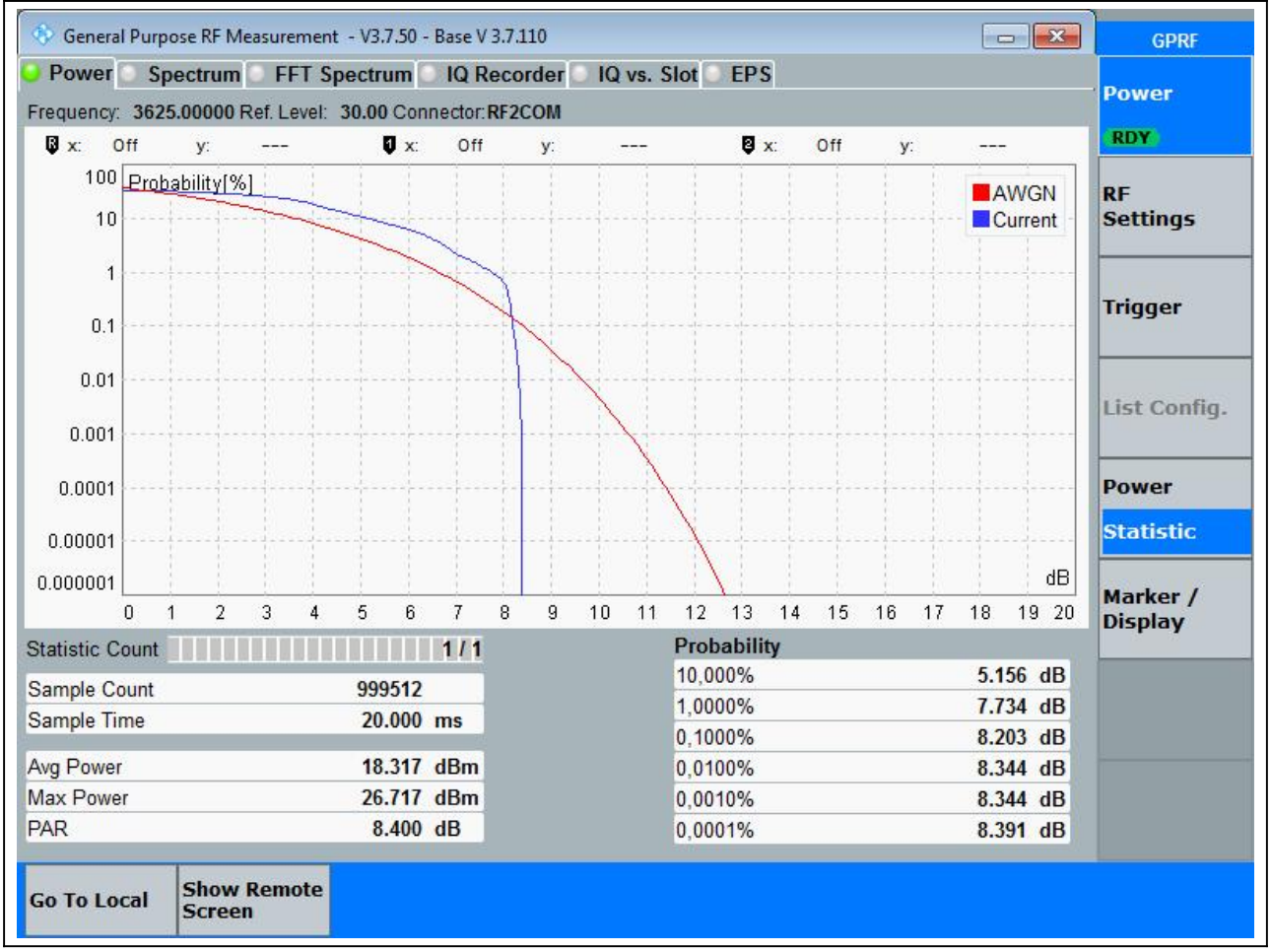
2.4 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:4, Channel:55290, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3555	0.1	9.7	13	Pass



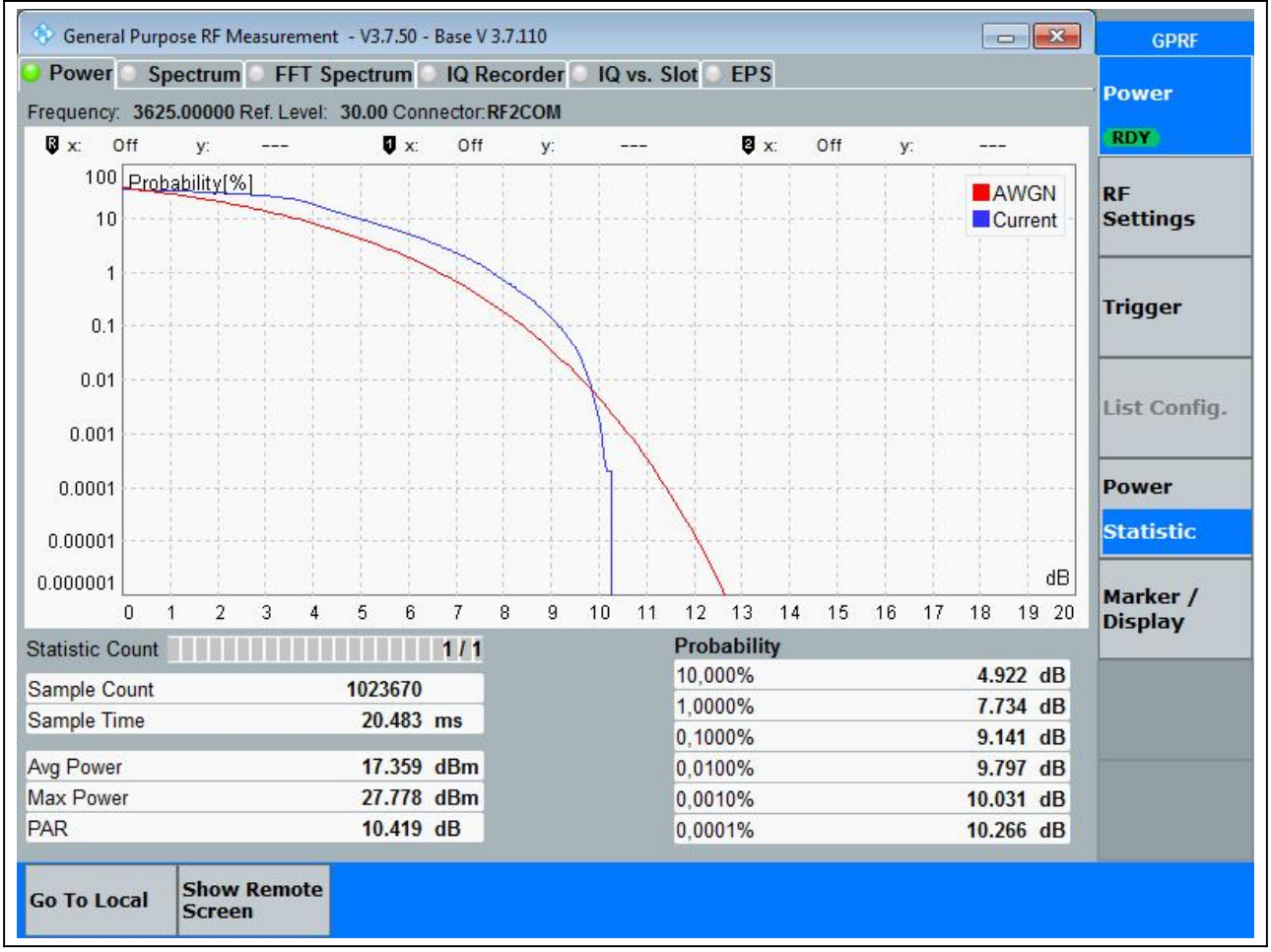
2.5 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:5, Channel:55990, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3625	0.1	8.2	13	Pass



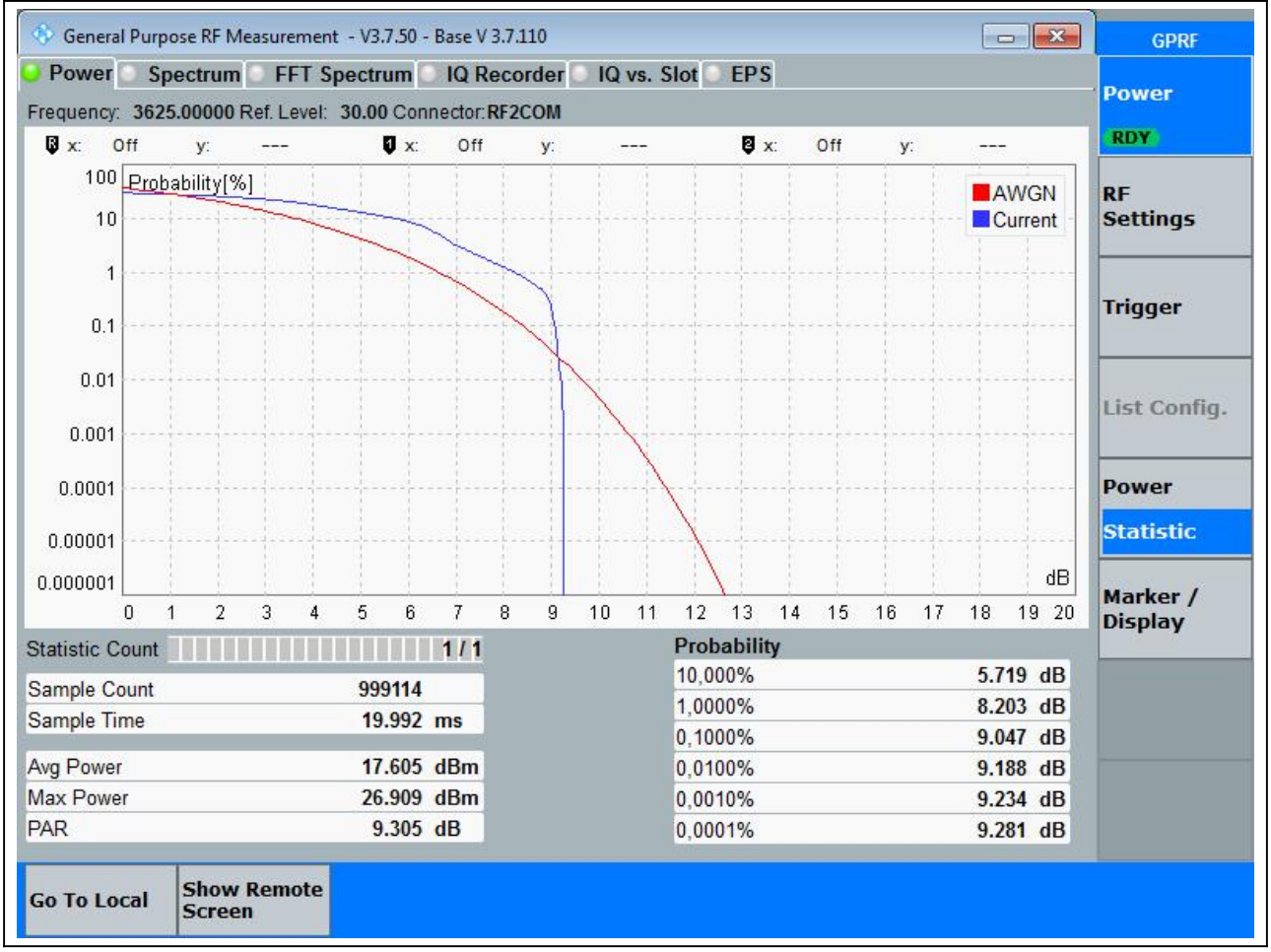
2.6 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:6, Channel:55990, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3625	0.1	9.14	13	Pass



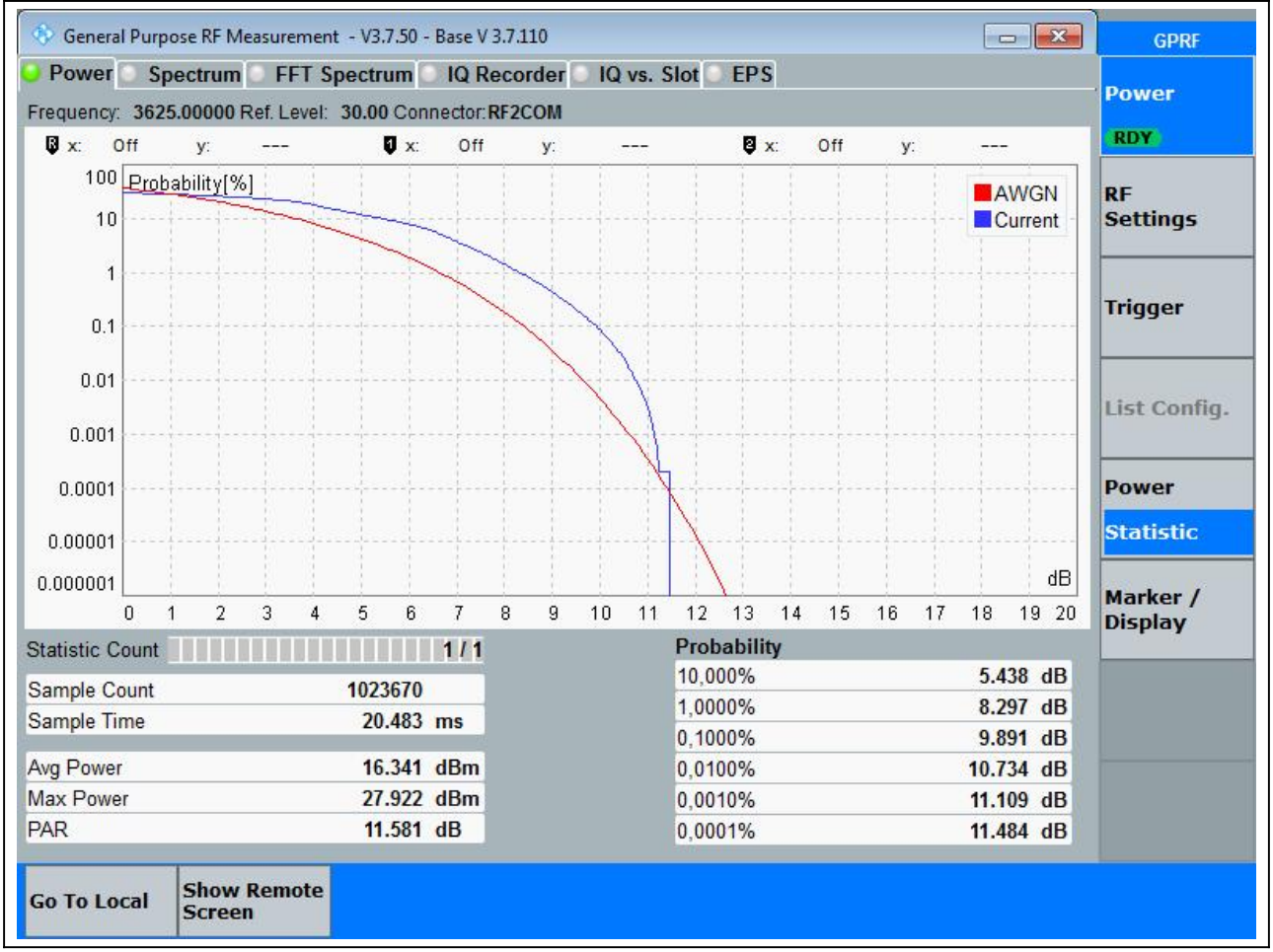
2.7 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:7, Channel:55990, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3625	0.1	9.05	13	Pass



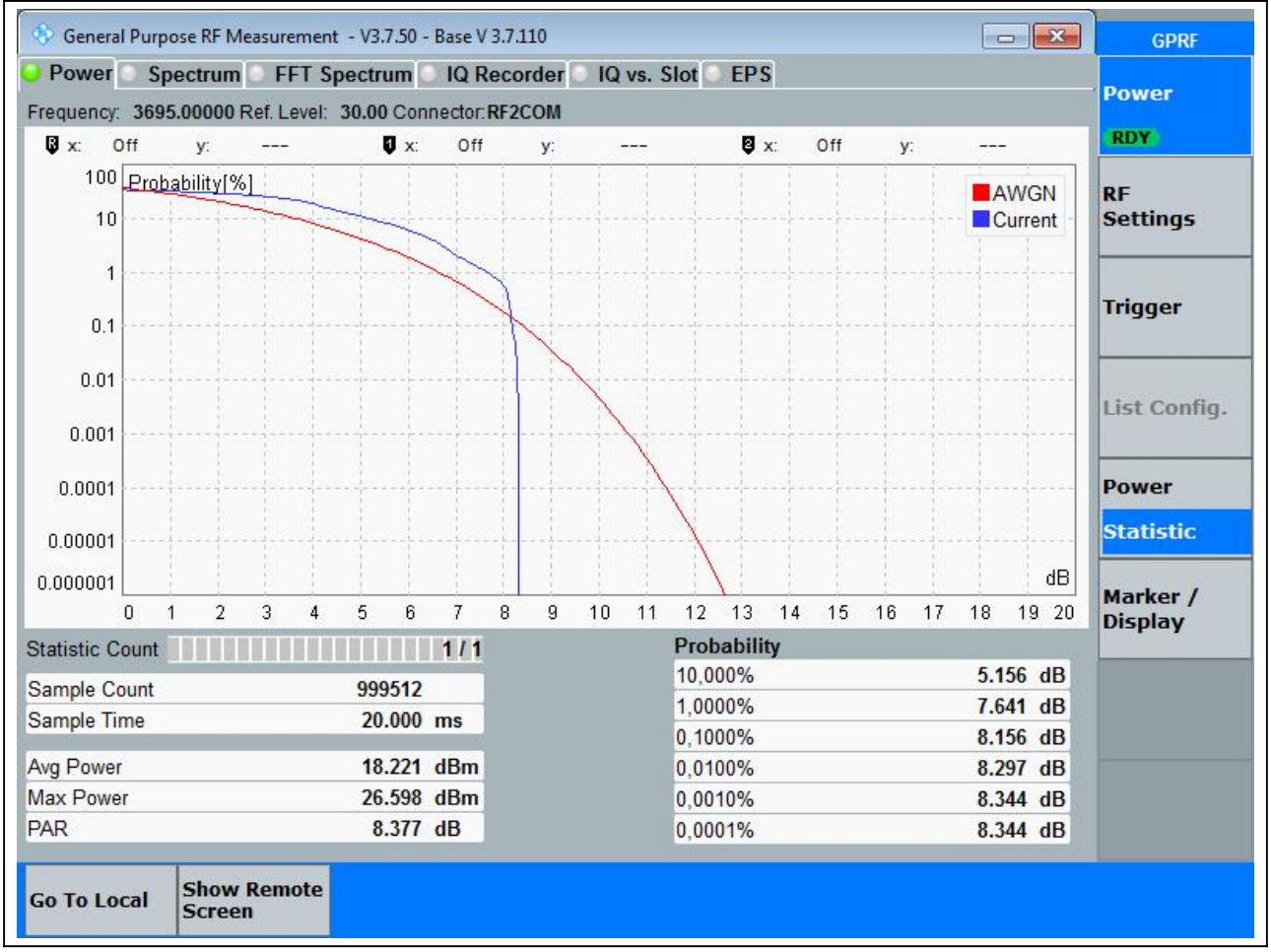
2.8 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:8, Channel:55990, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3625	0.1	9.89	13	Pass



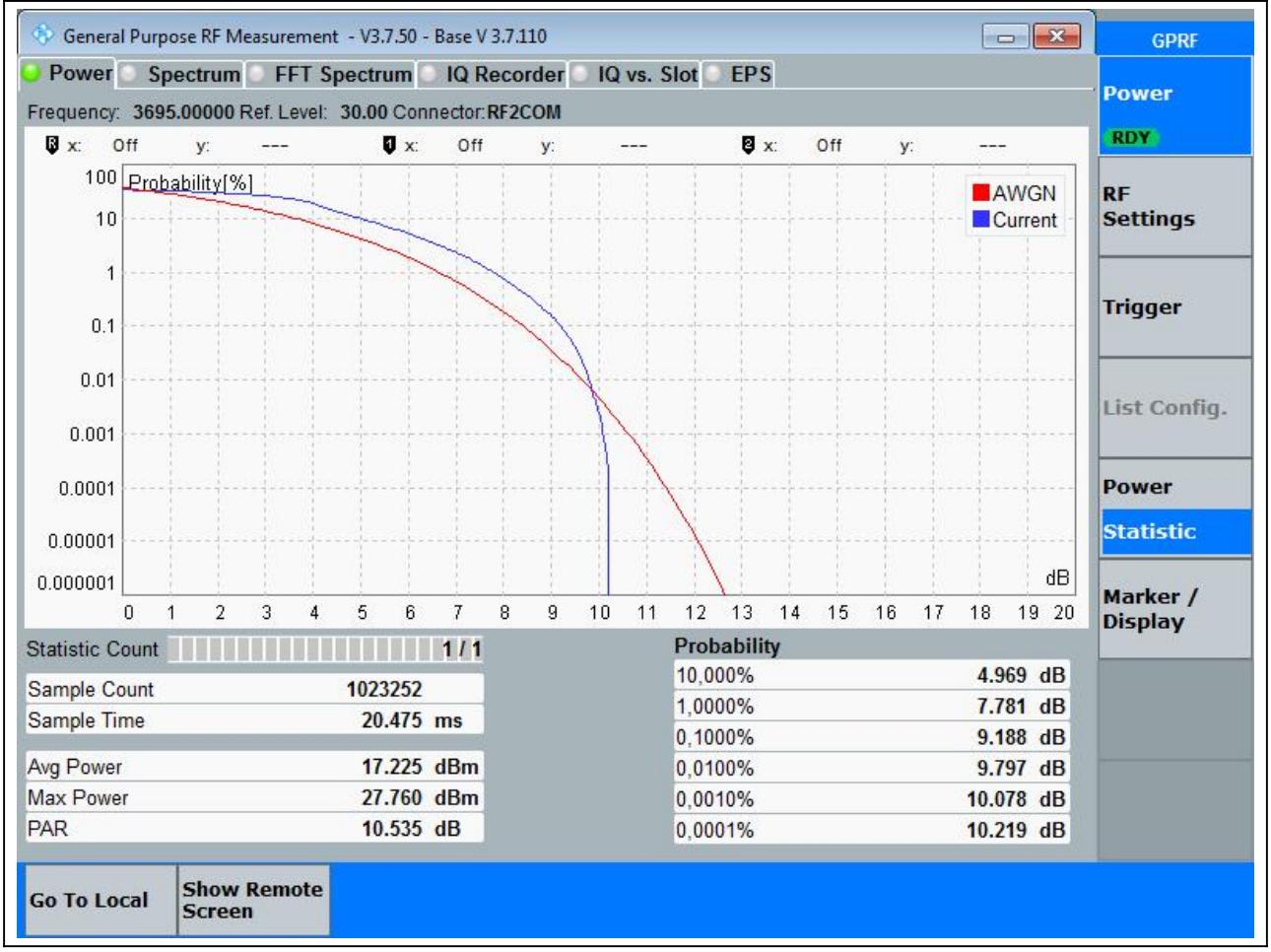
2.9 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:9, Channel:56690, Bandwidth:10, Modulation:QPSK, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3695	0.1	8.16	13	Pass



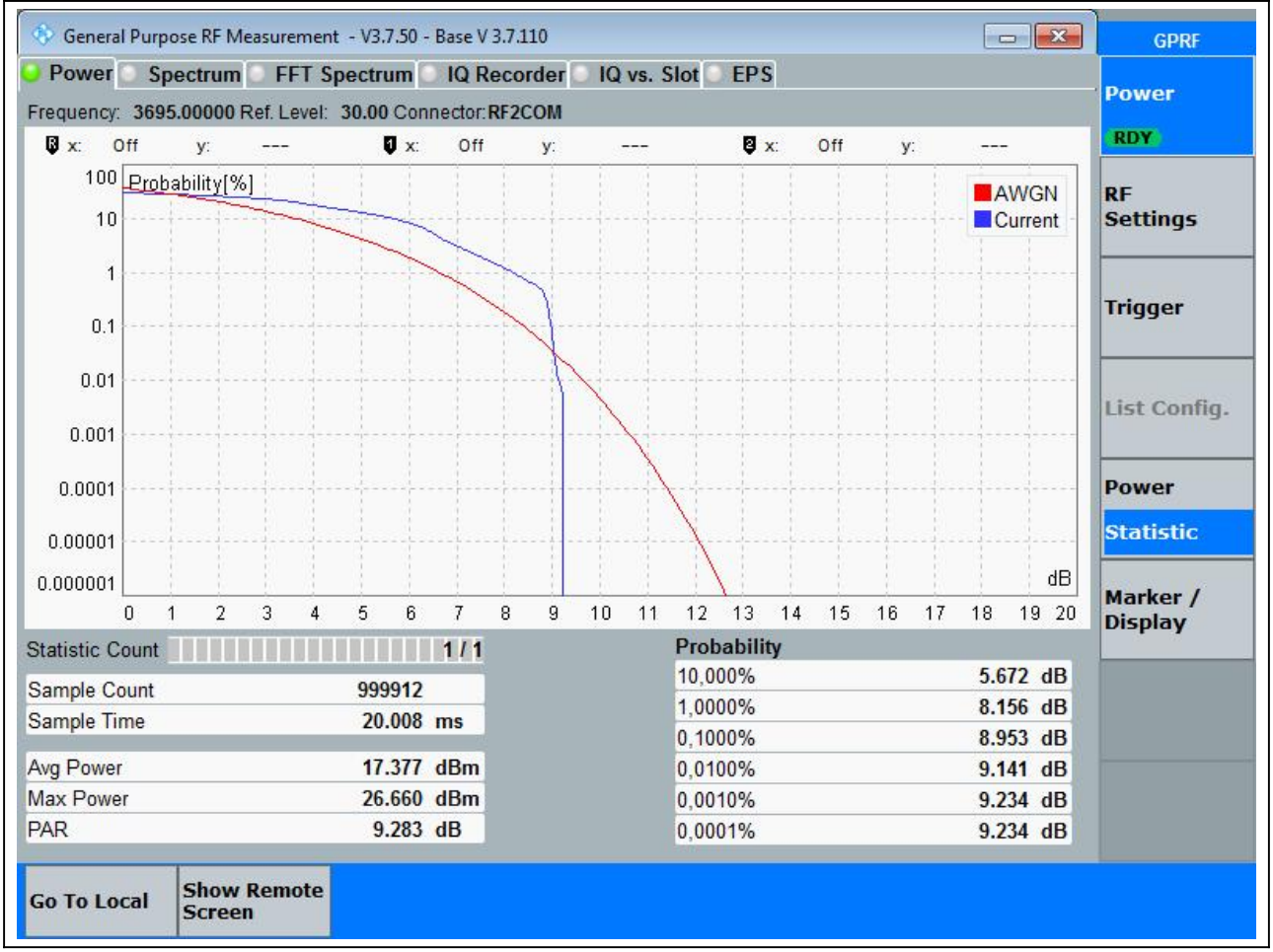
2.10 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:10, Channel:56690, Bandwidth:10, Modulation:QPSK, RB Number: 50, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3695	0.1	9.19	13	Pass



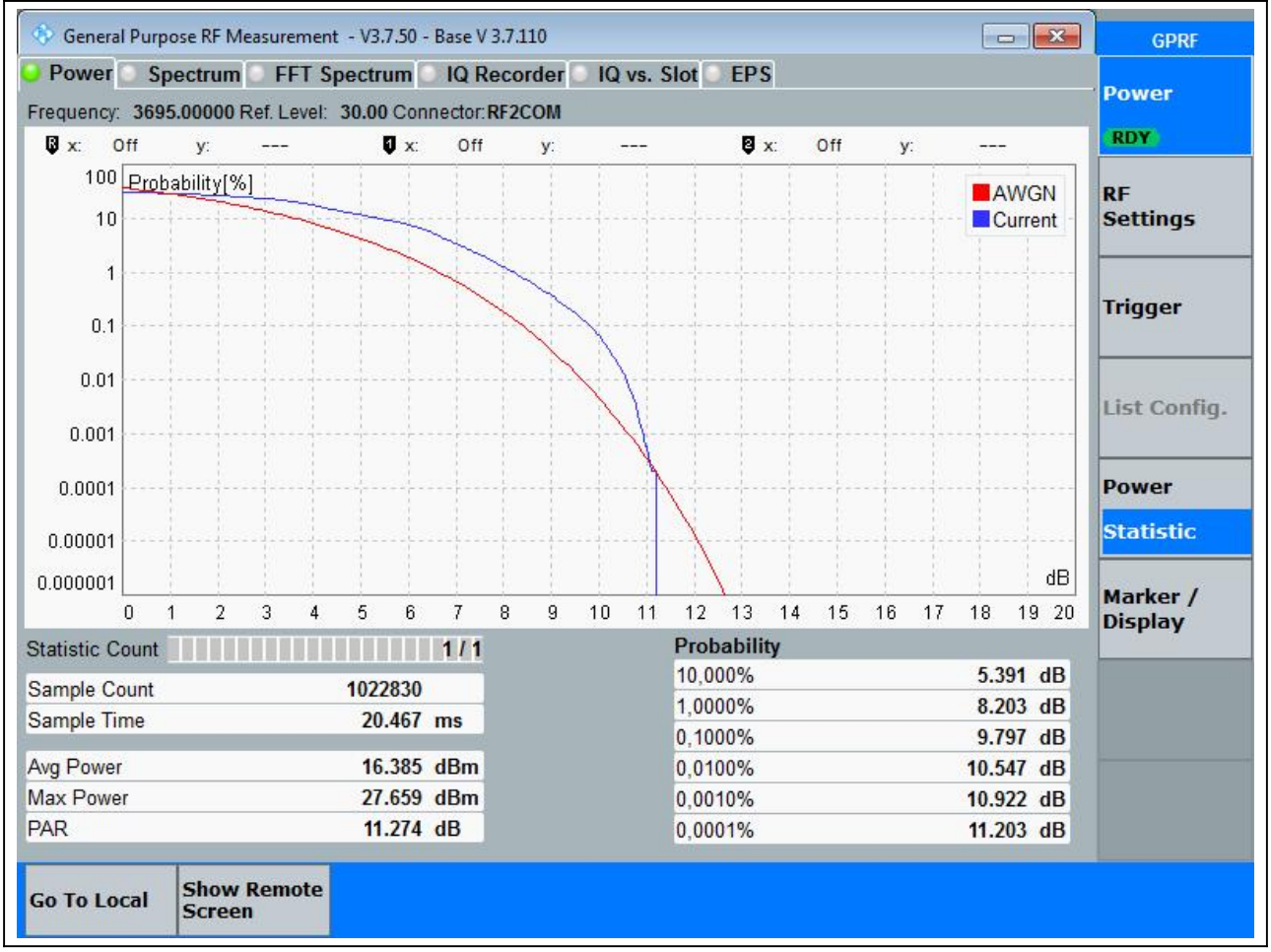
2.11 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:11, Channel:56690, Bandwidth:10, Modulation:Q16, RB Number: 1, RB Position:LOW)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3695	0.1	8.95	13	Pass



2.12 LTE Peak to Average Ratio_Part96(NTLV)(Subtest:12, Channel:56690, Bandwidth:10, Modulation:Q16, RB Number: 50, RB Position:LOW)

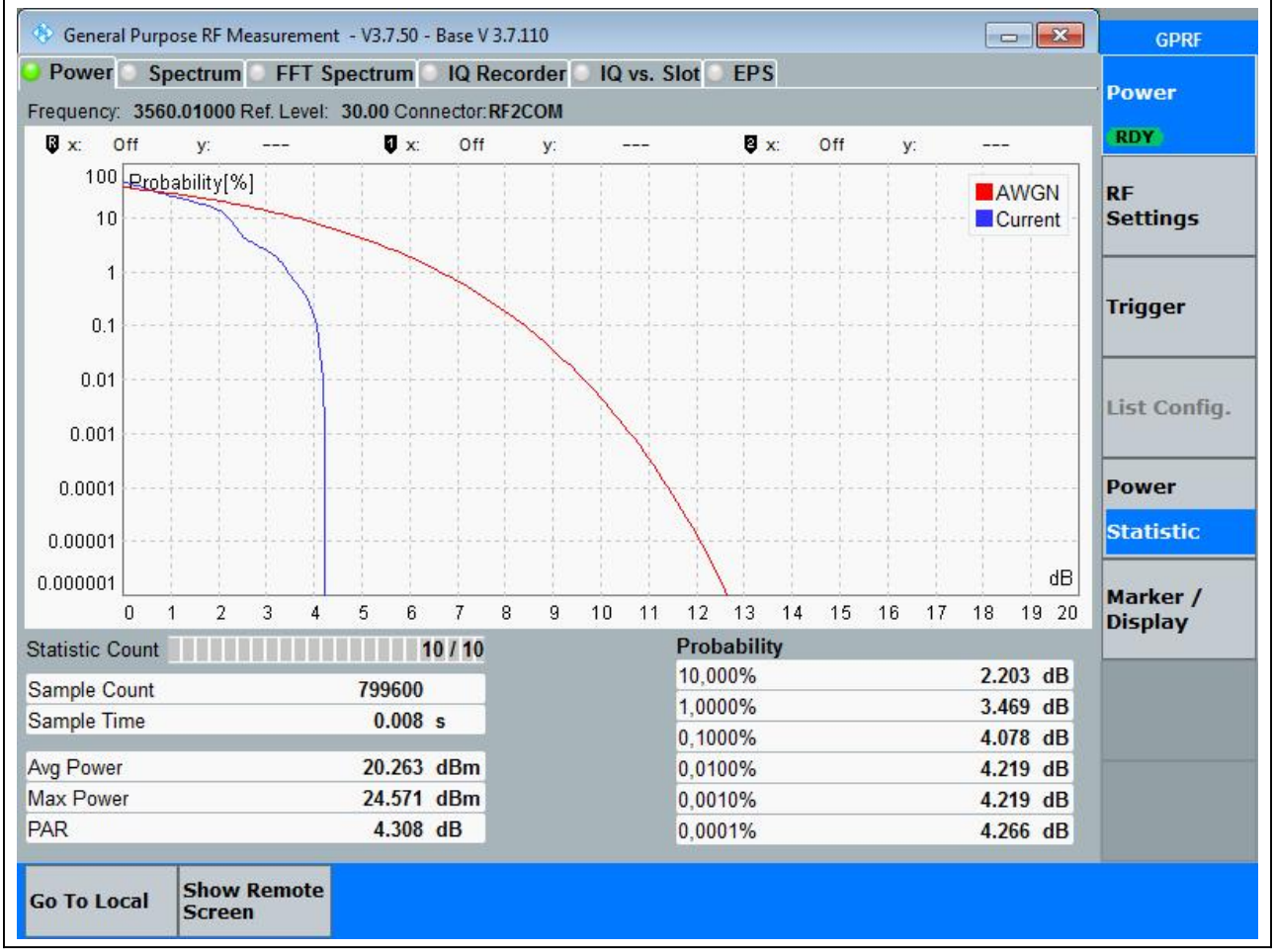
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3695	0.1	9.8	13	Pass



1. n48 30kHz

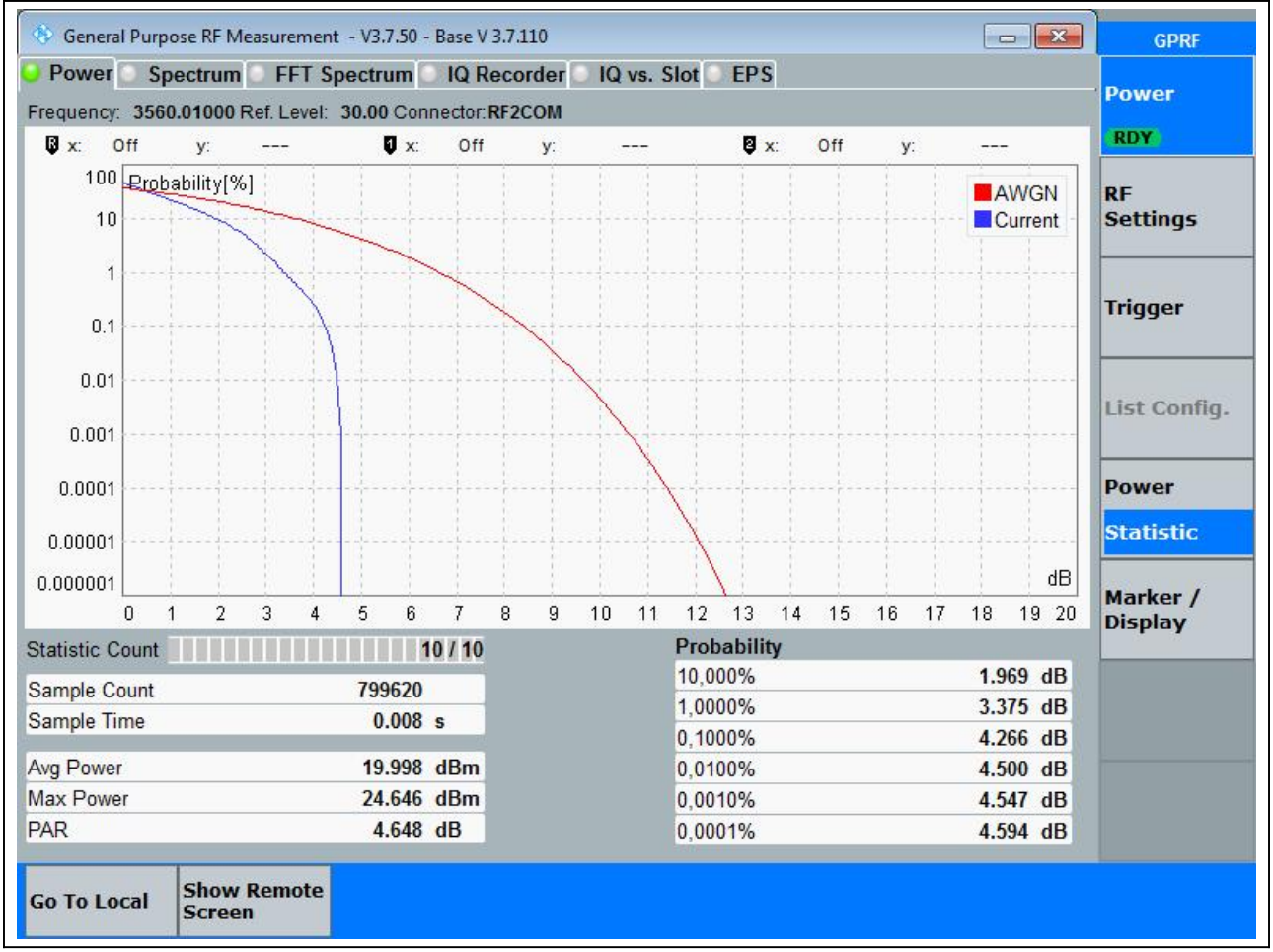
1.1 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	4.08	13	Pass



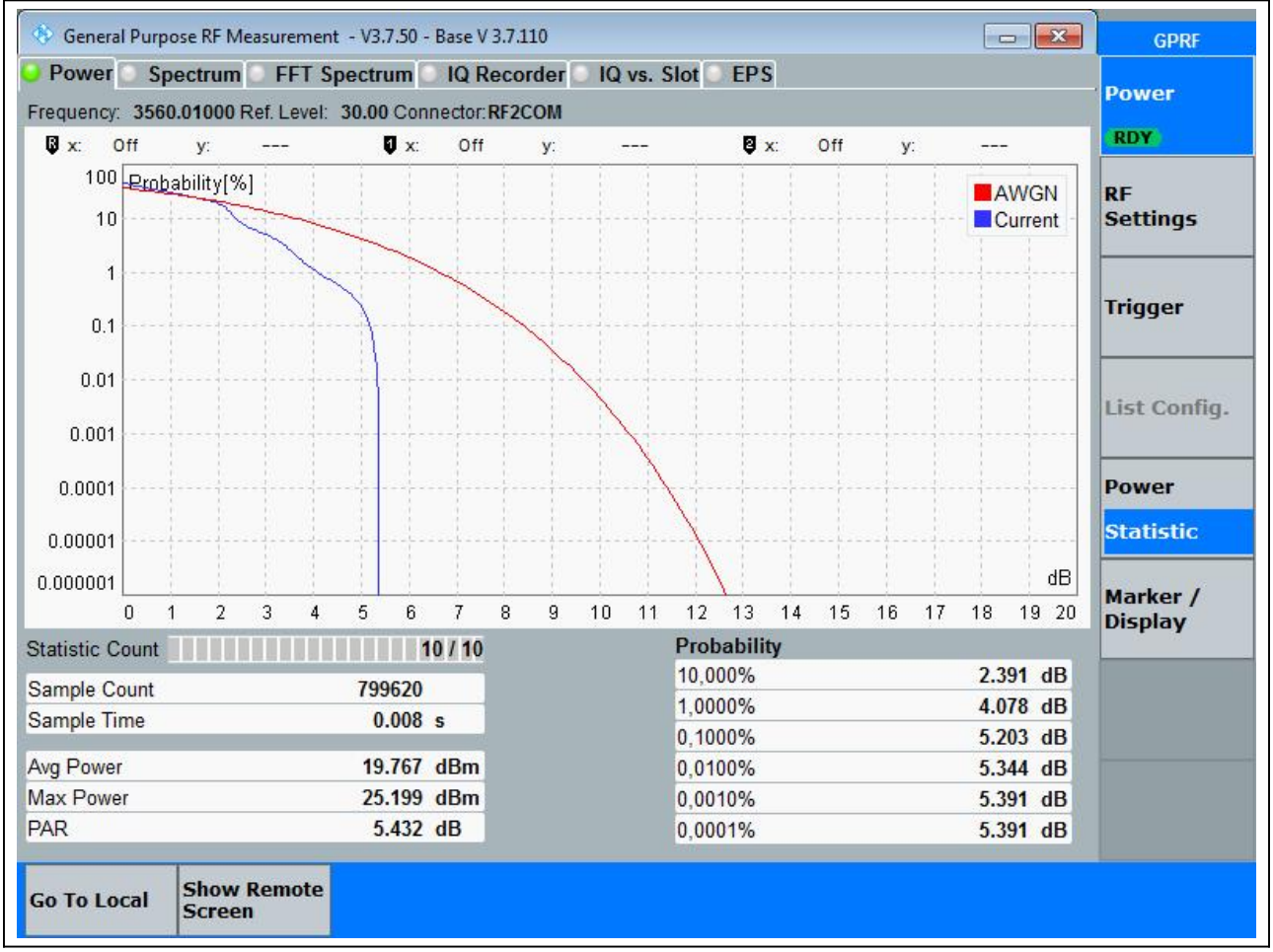
1.2 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	4.27	13	Pass



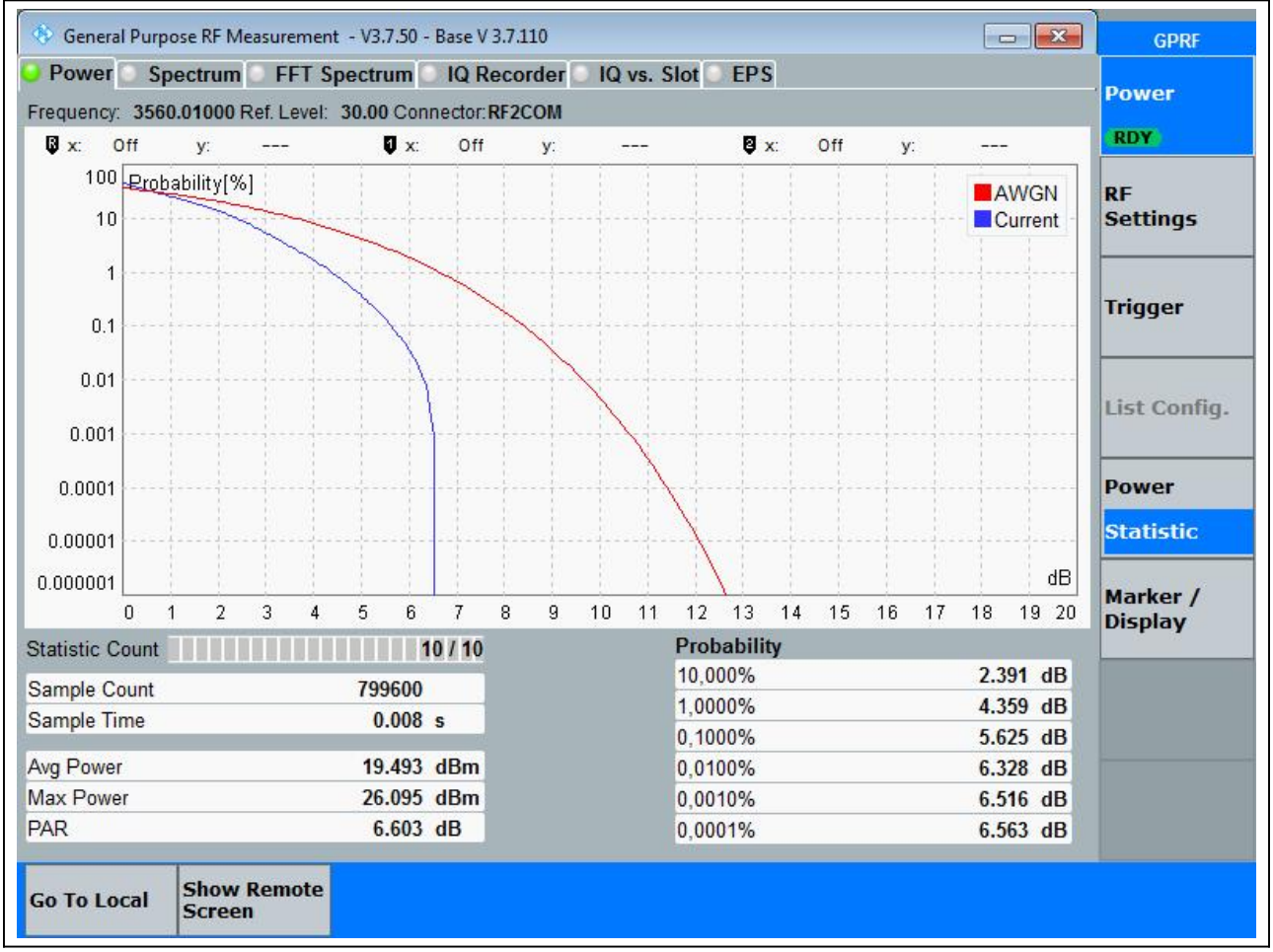
1.3 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	5.2	13	Pass



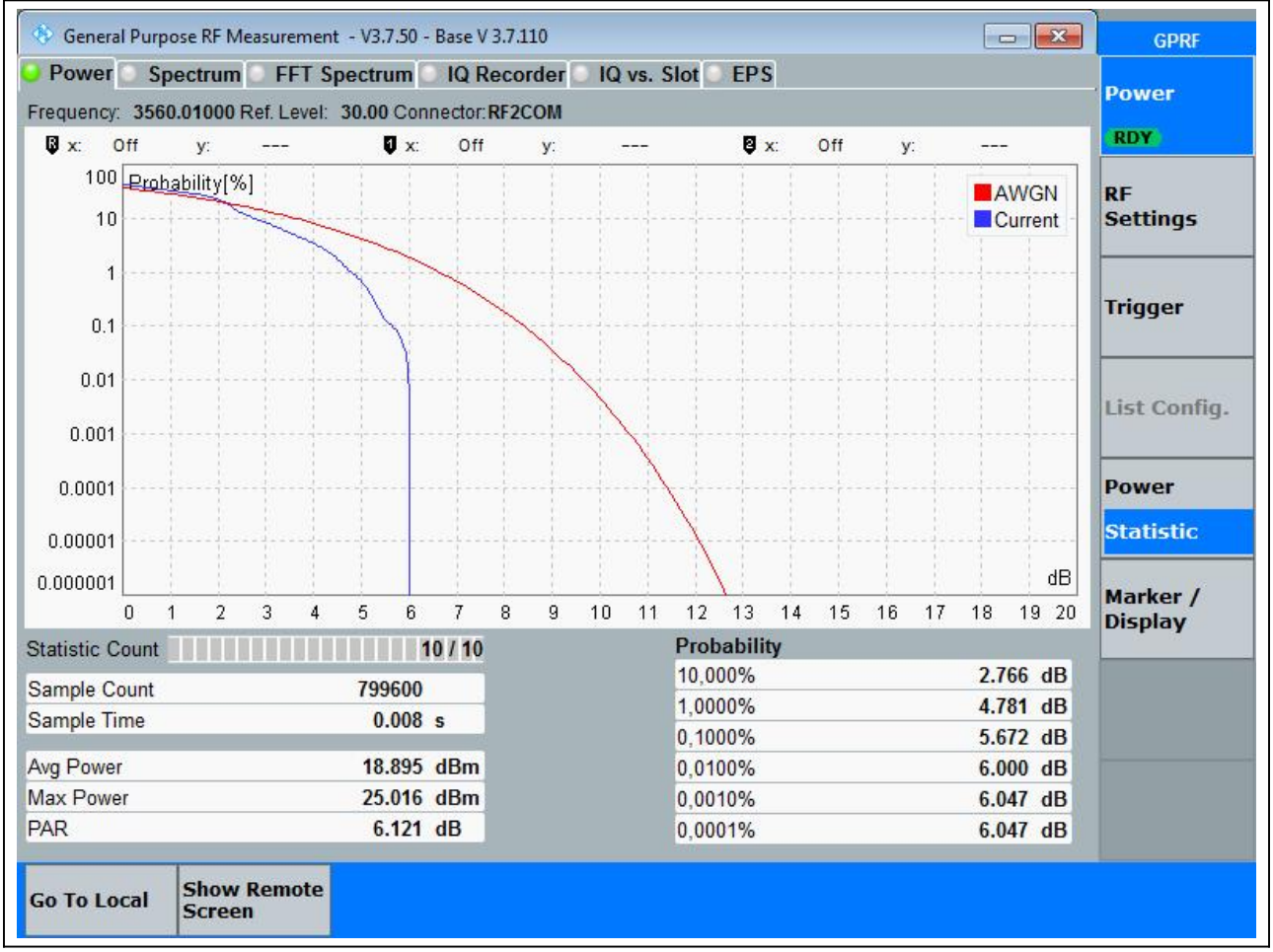
1.4 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	5.62	13	Pass



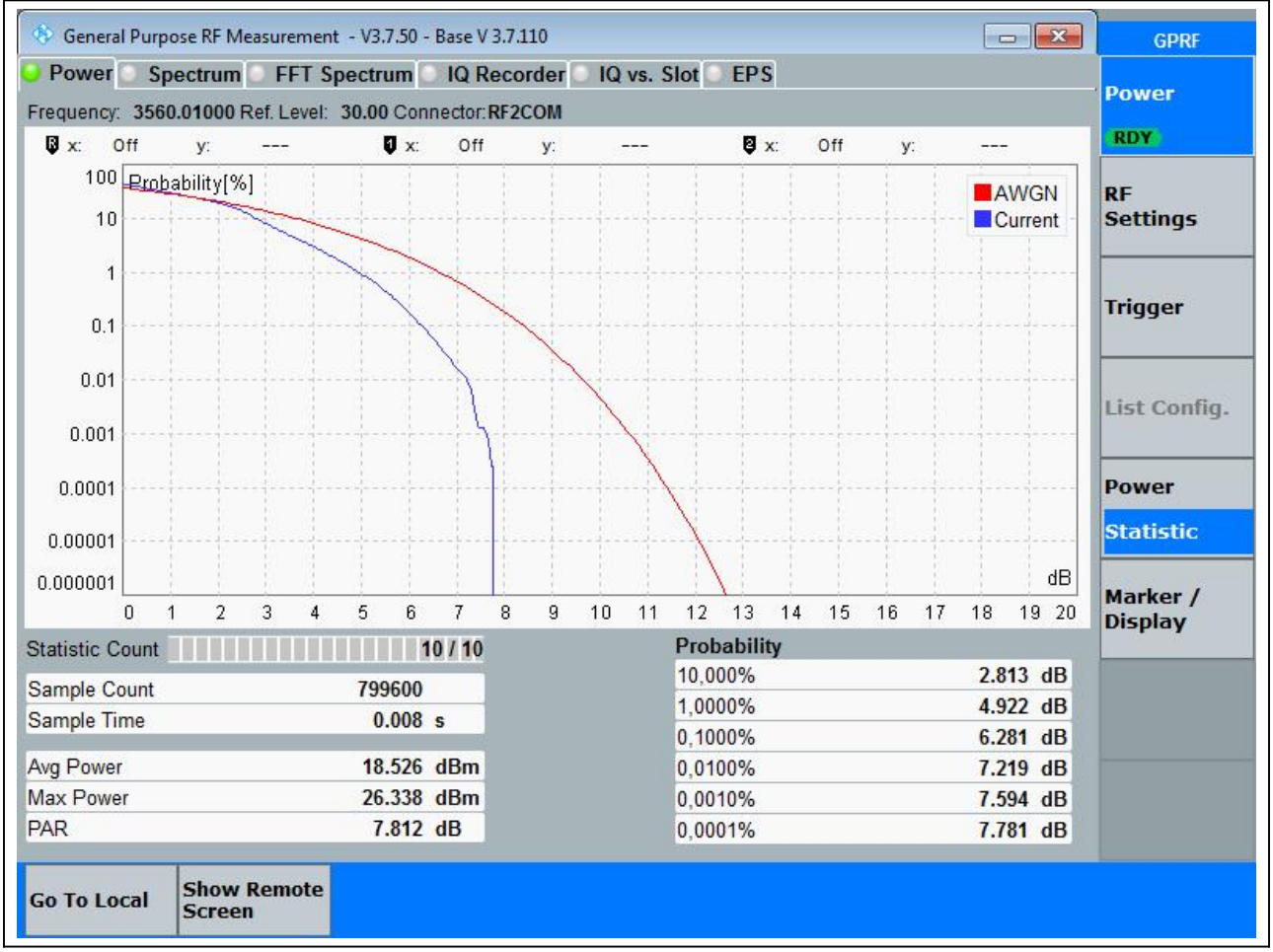
1.5 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	5.67	13	Pass



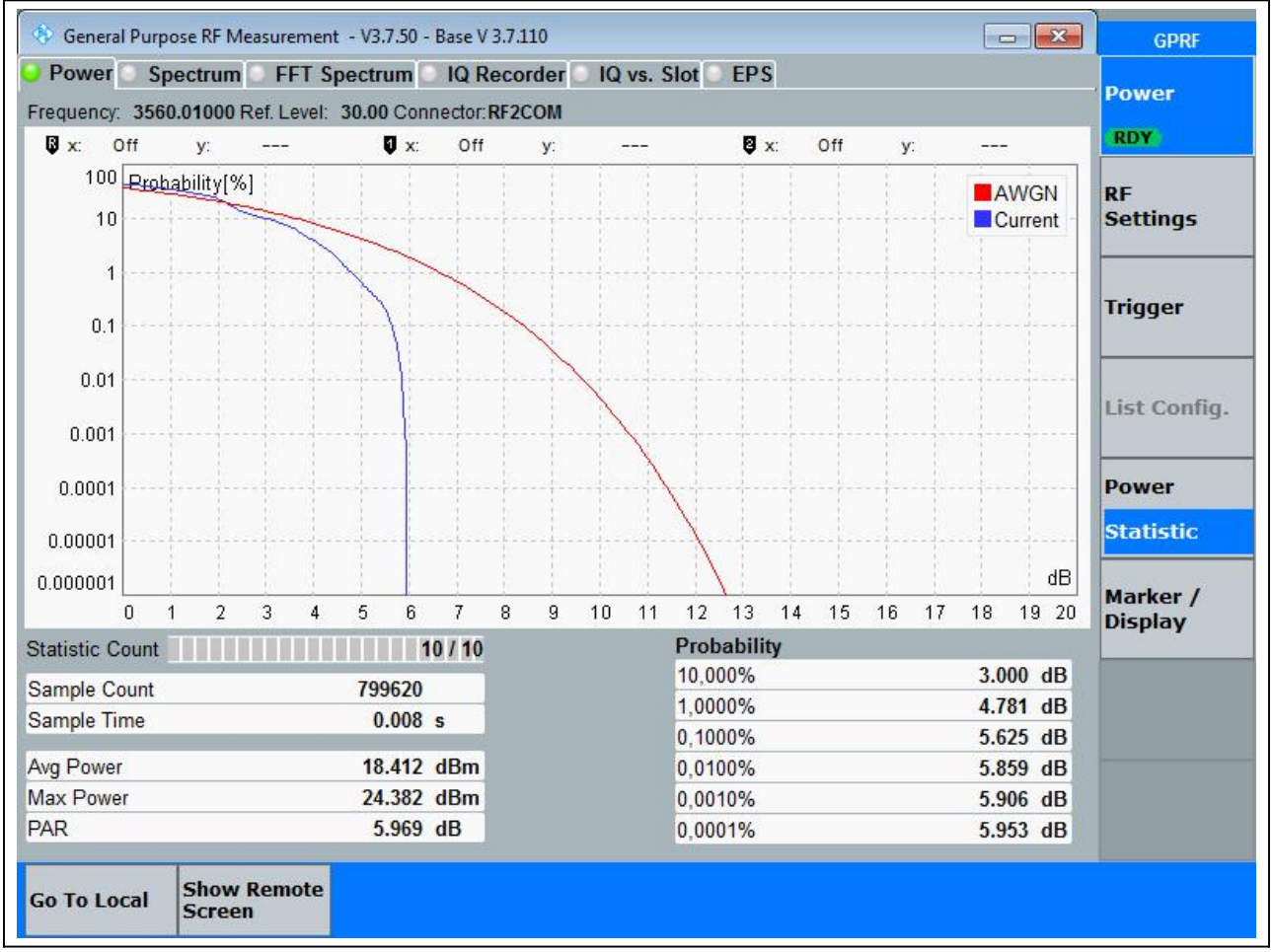
1.6 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	6.28	13	Pass



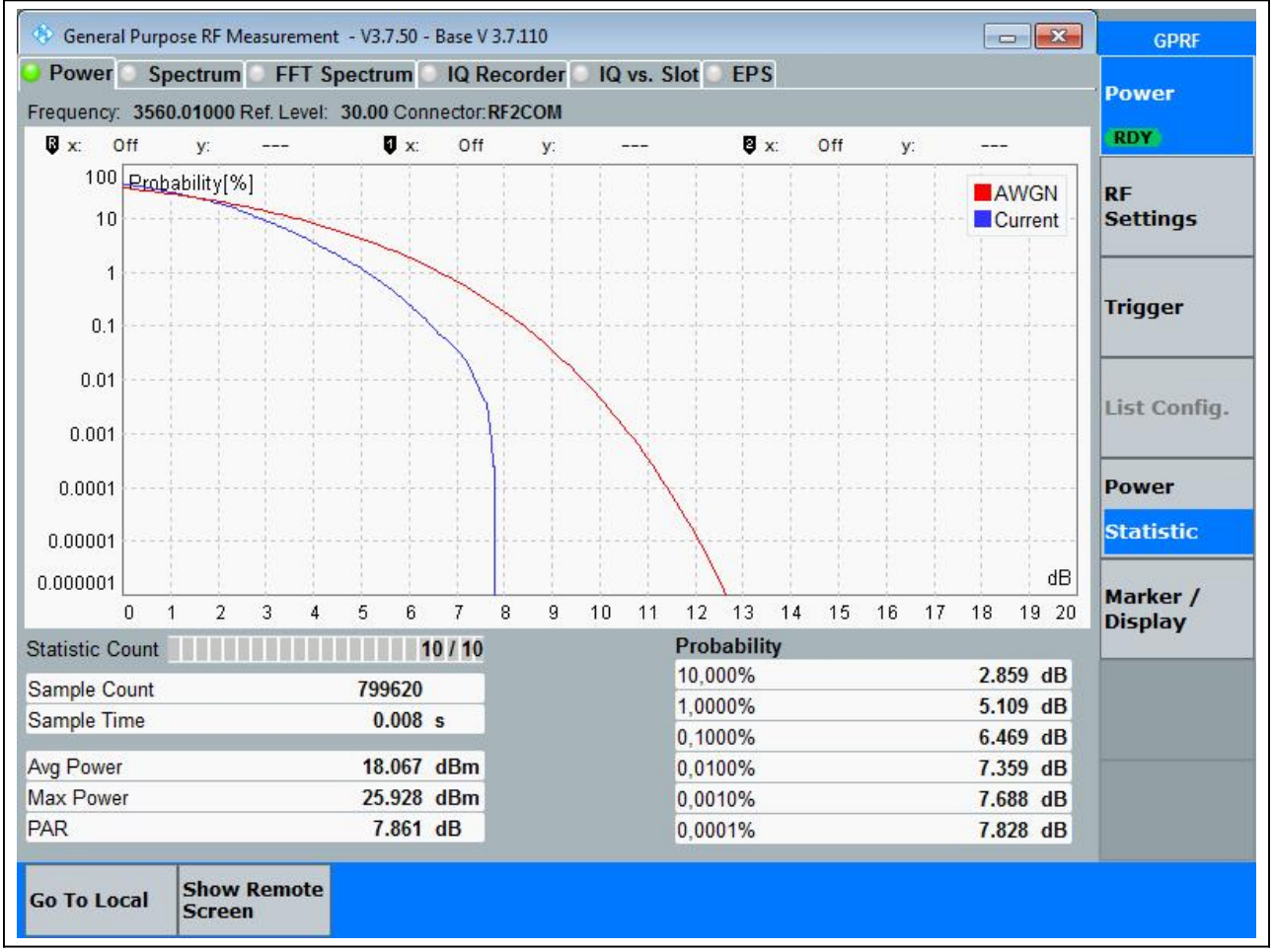
1.7 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	5.62	13	Pass



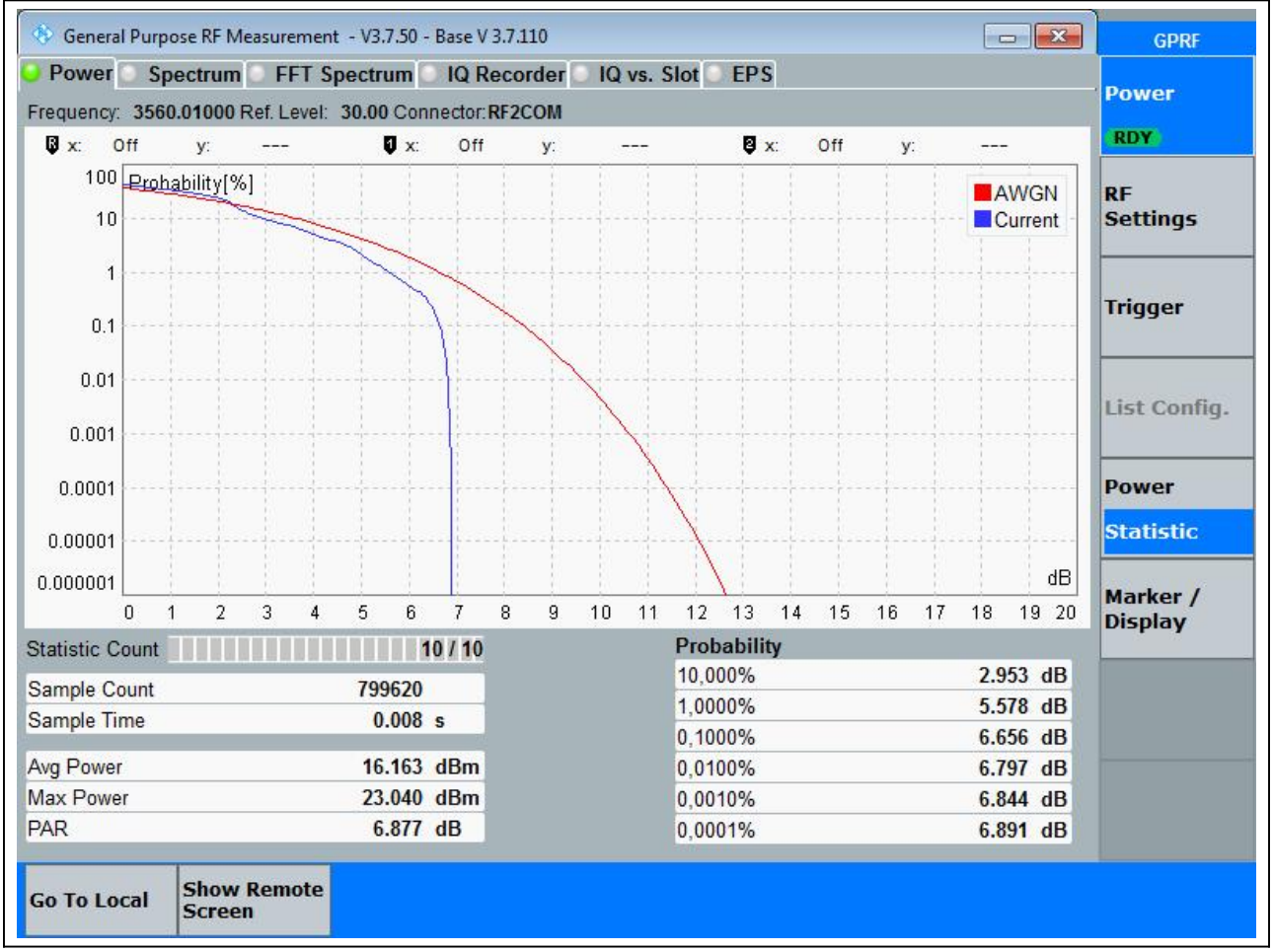
1.8 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	6.47	13	Pass



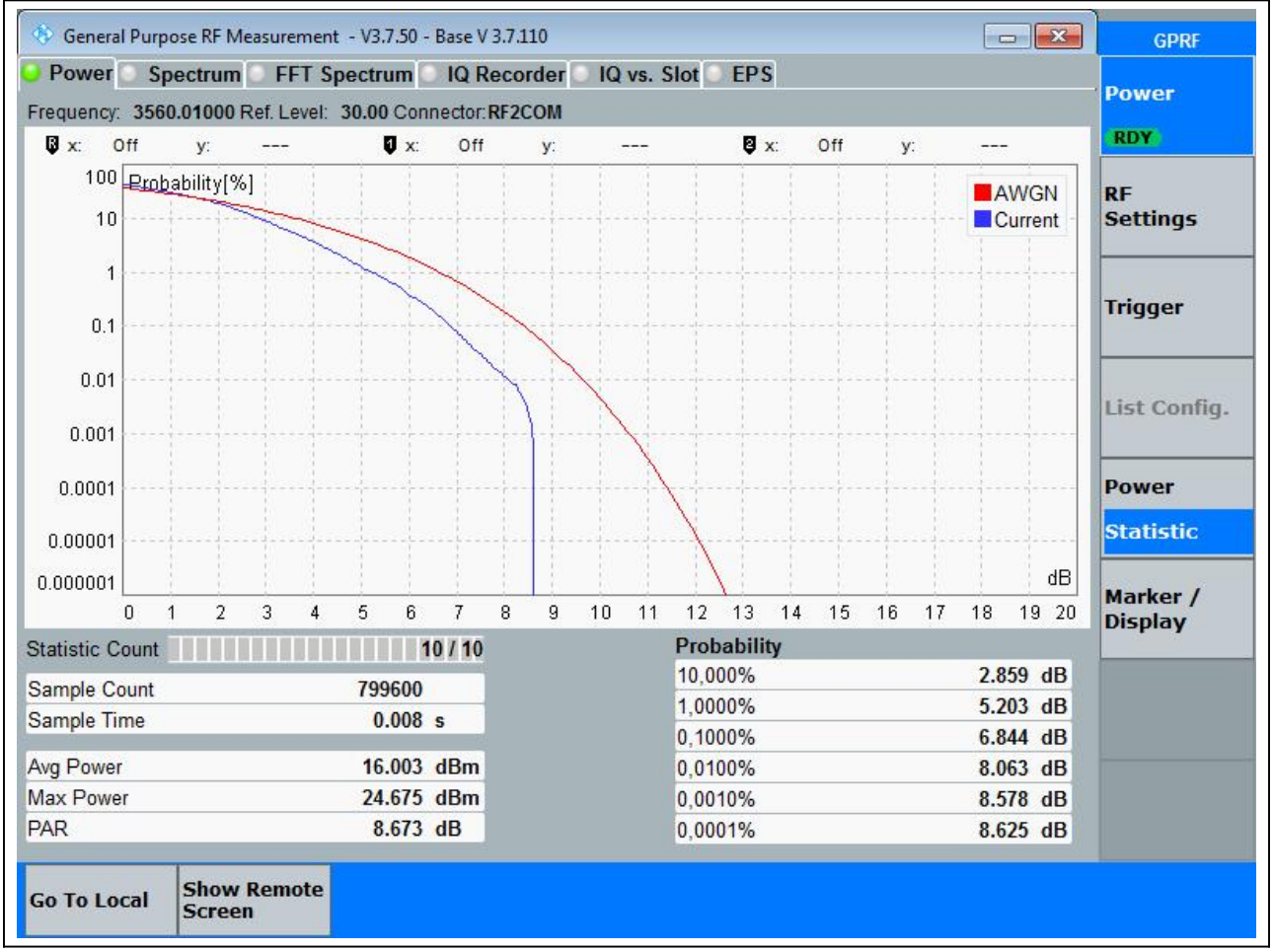
1.9 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	6.66	13	Pass



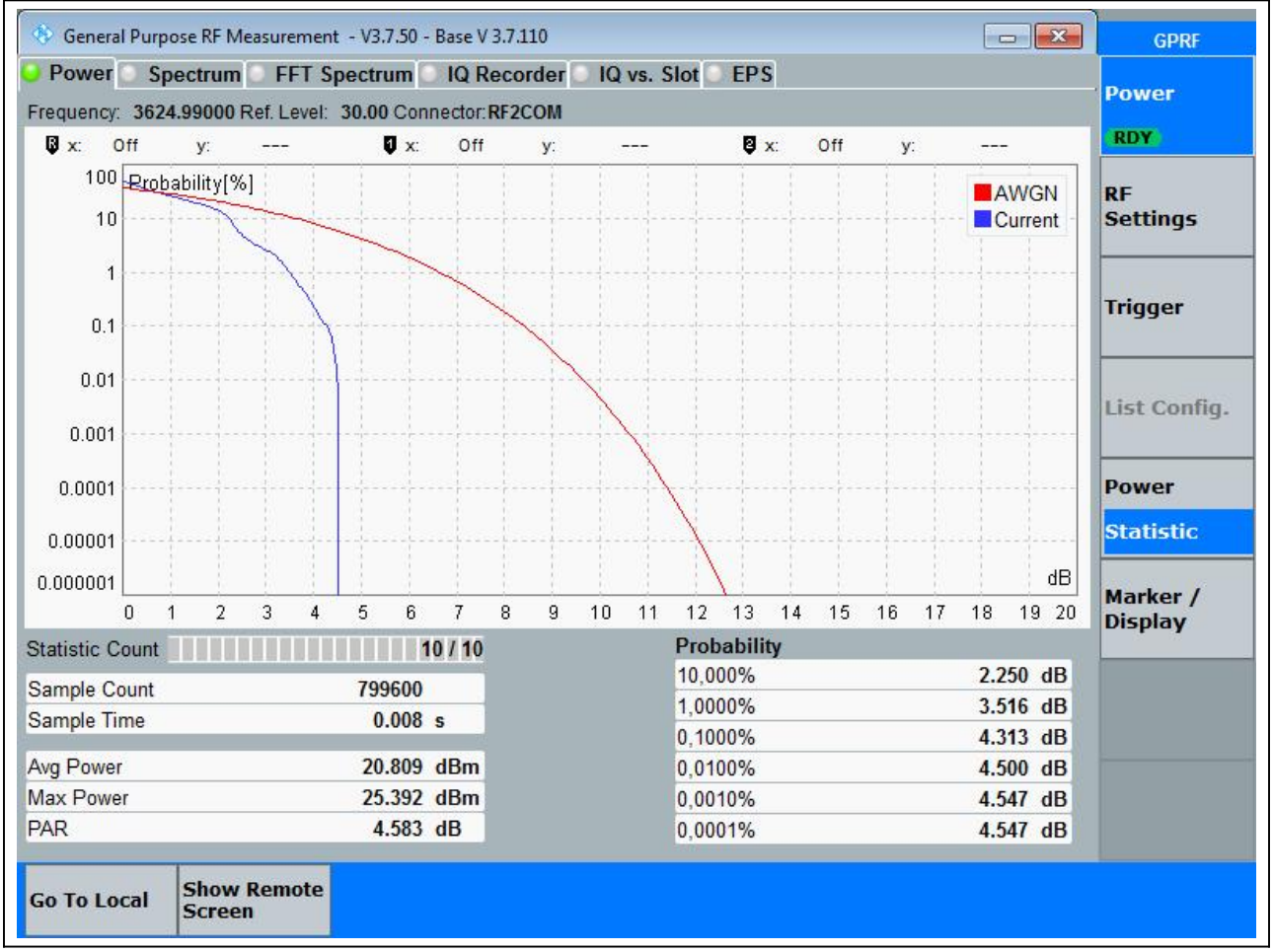
1.10 Peak to Average Ratio for SA_Part96(NTNV)(Channel:637334, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3560.01	0.1	6.84	13	Pass



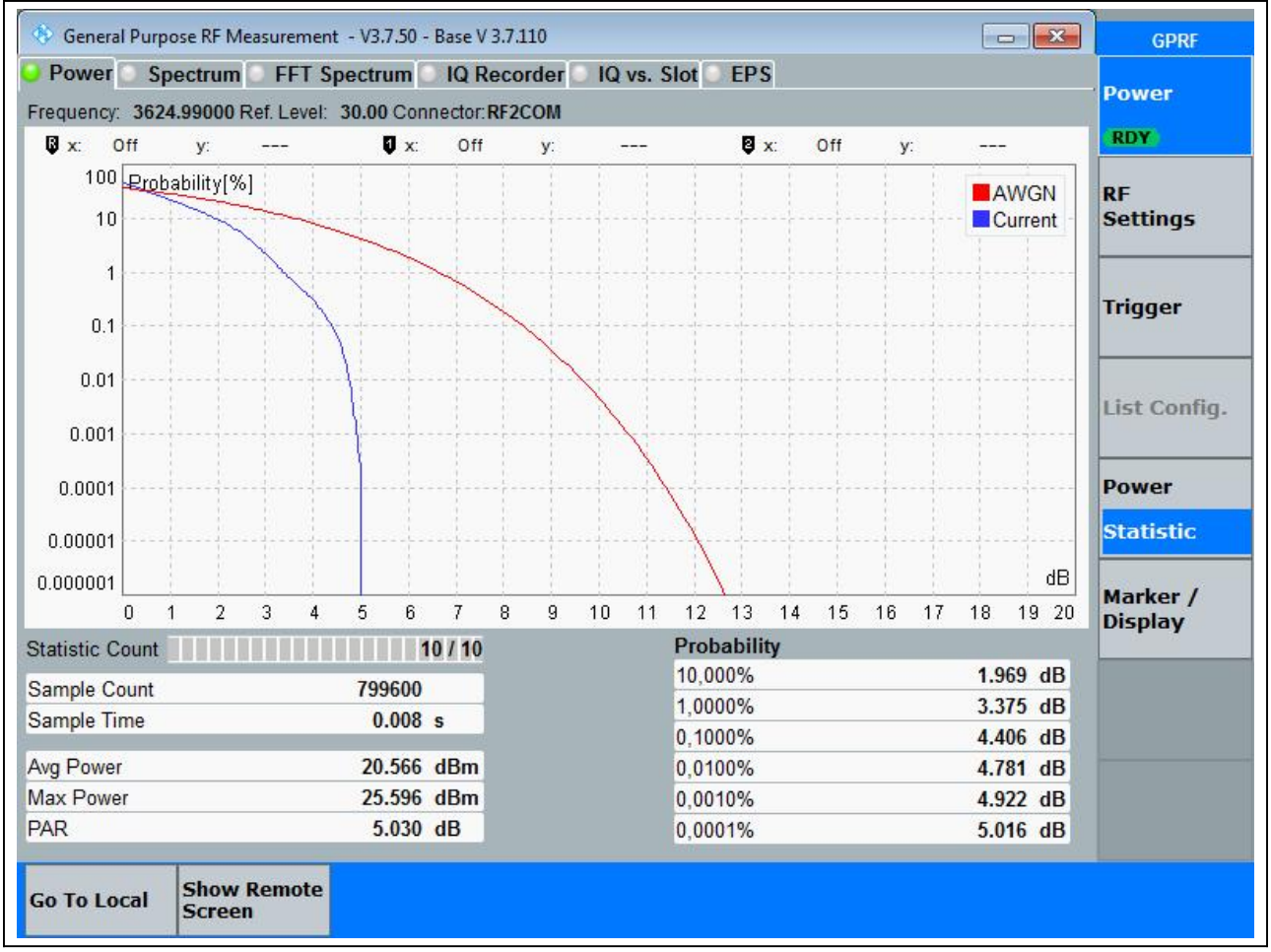
1.11 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	4.31	13	Pass



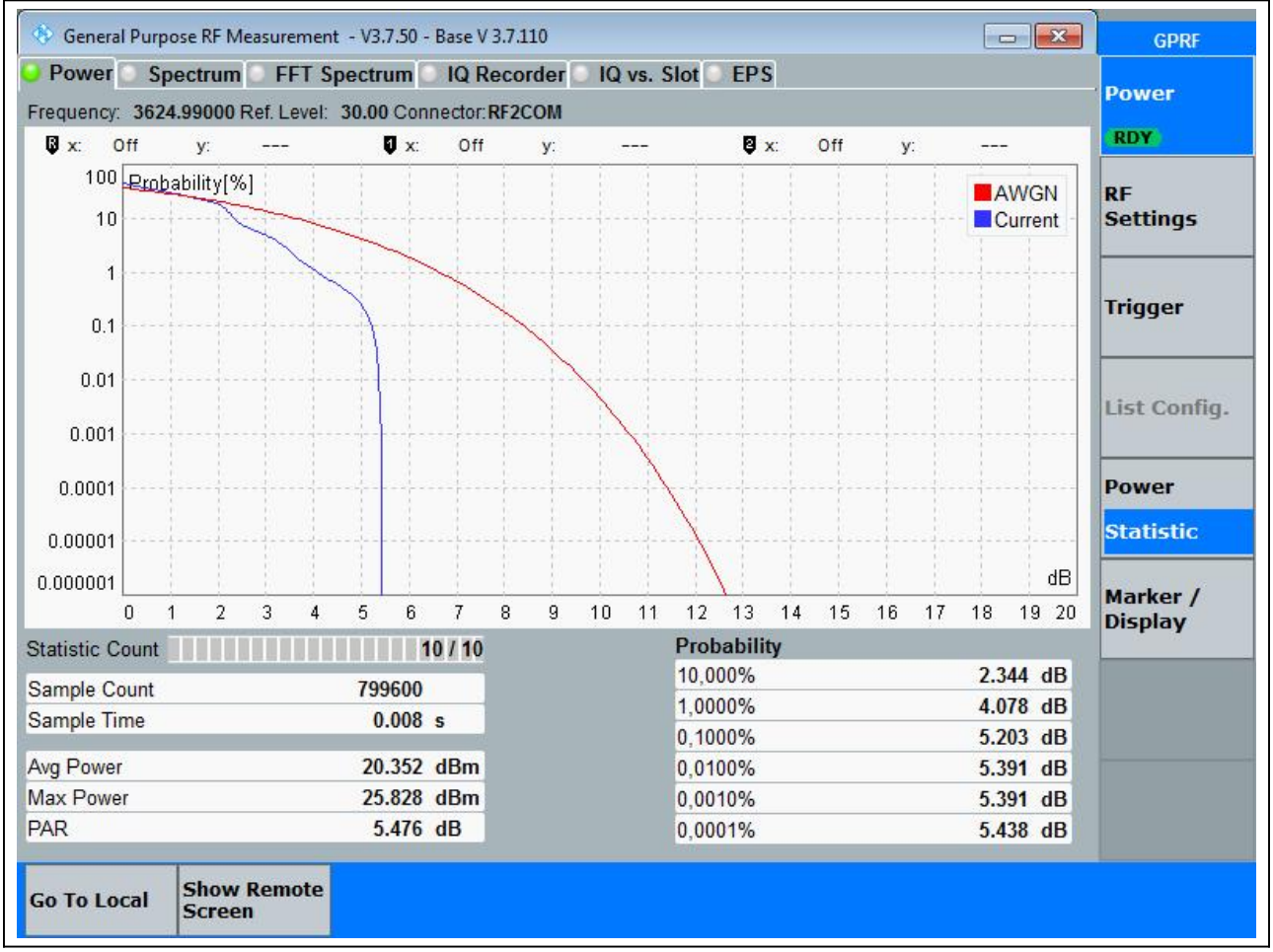
1.12 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	4.41	13	Pass



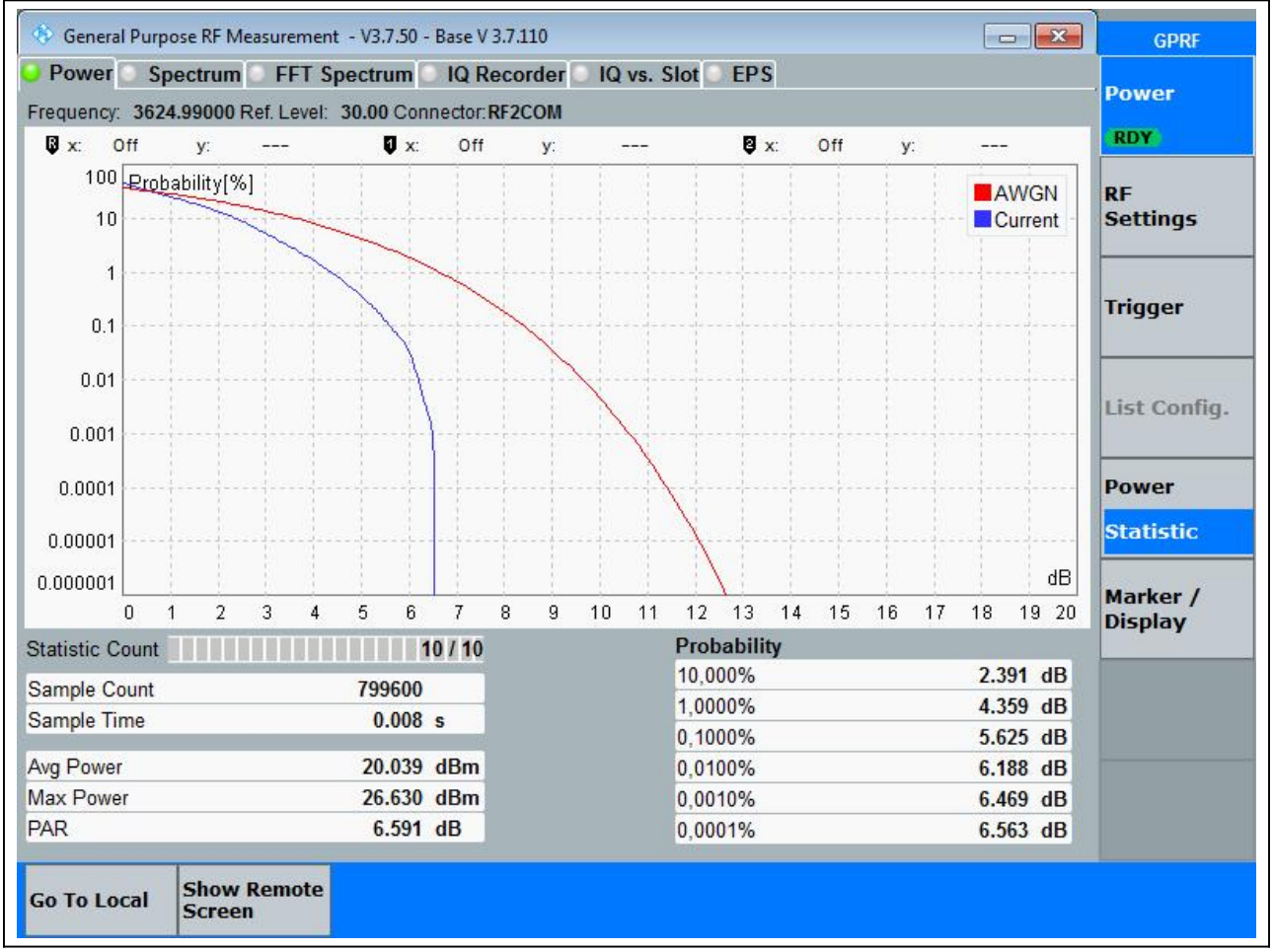
1.13 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	5.2	13	Pass



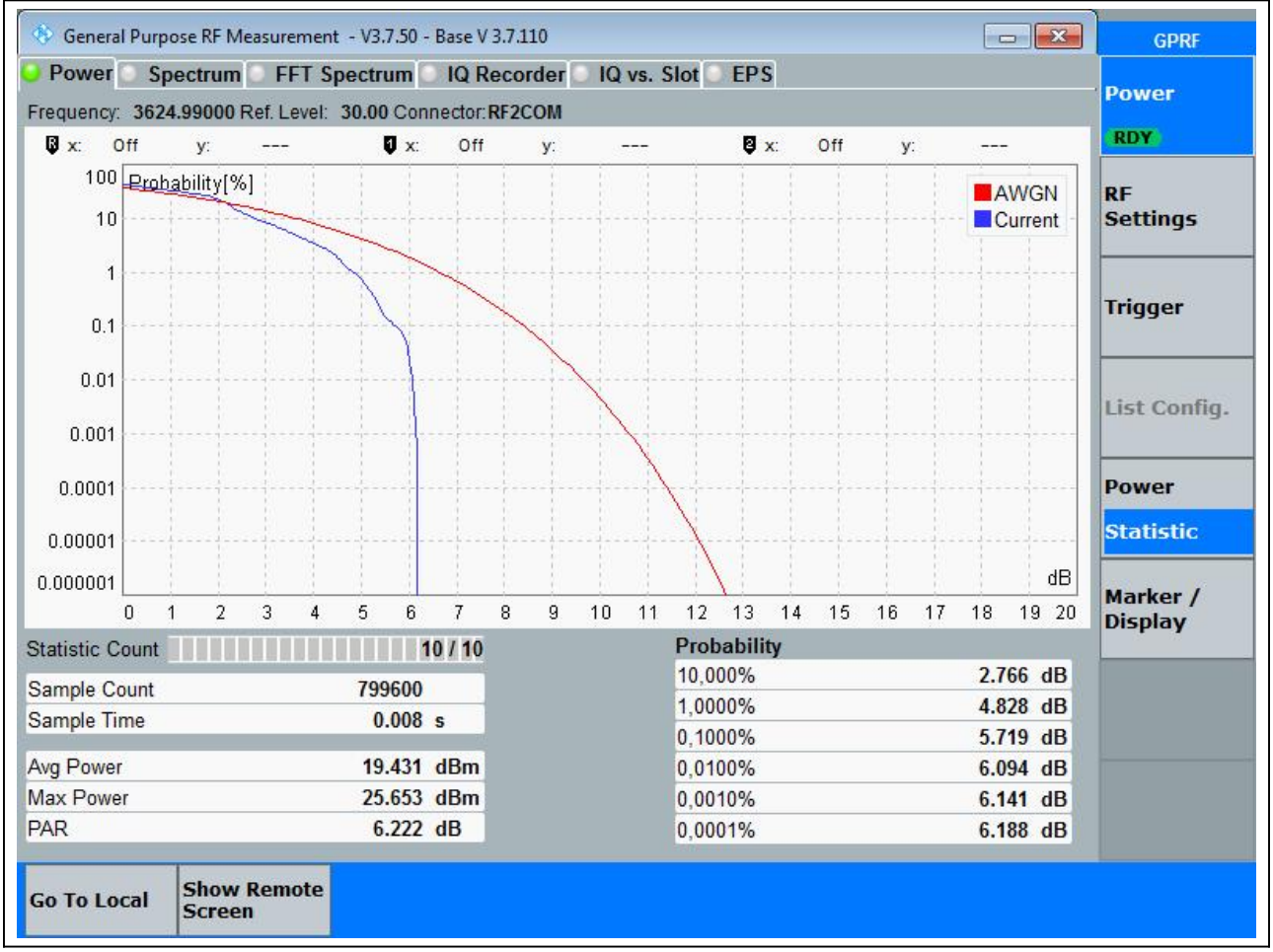
1.14 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	5.62	13	Pass



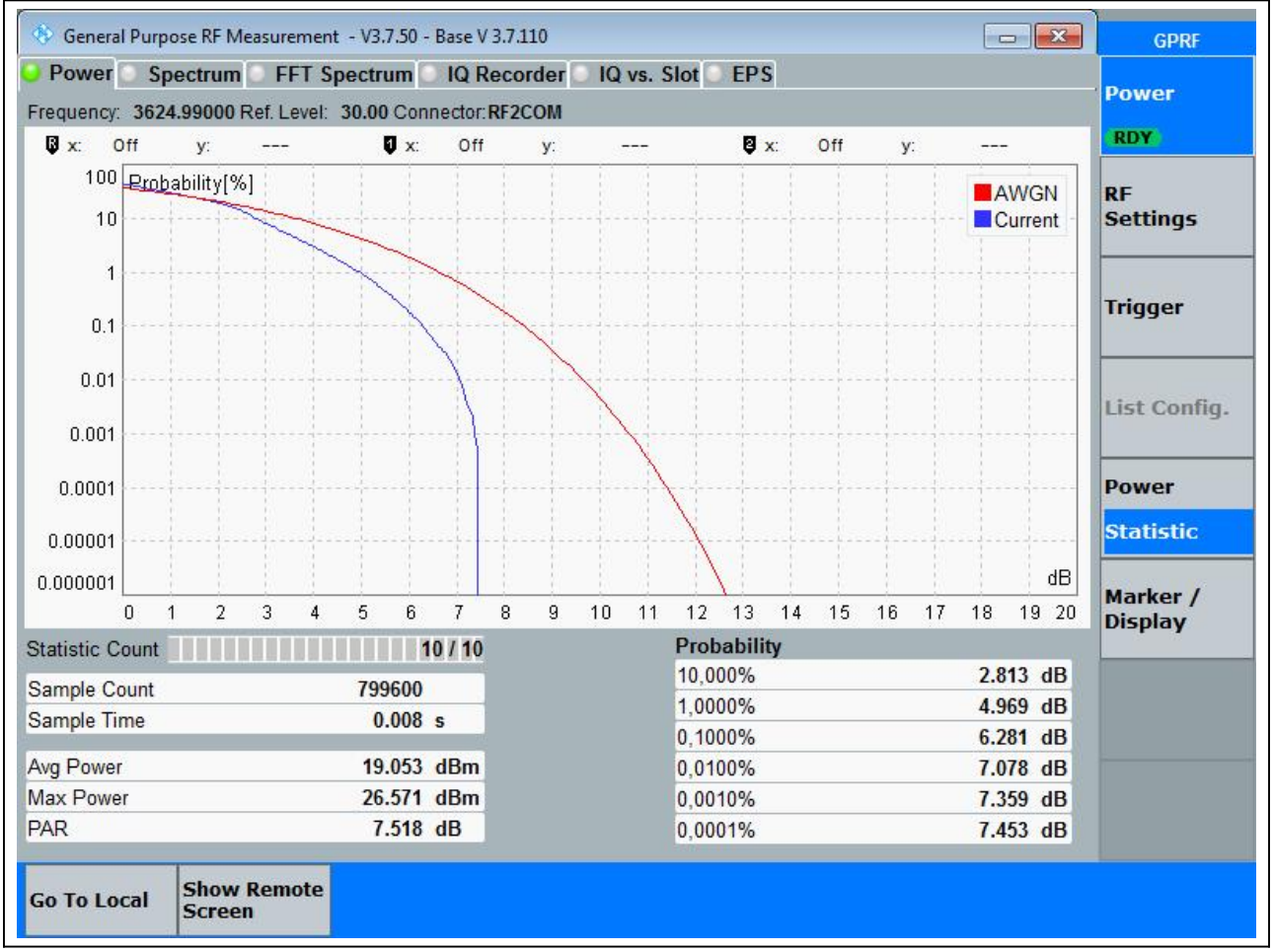
1.15 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	5.72	13	Pass



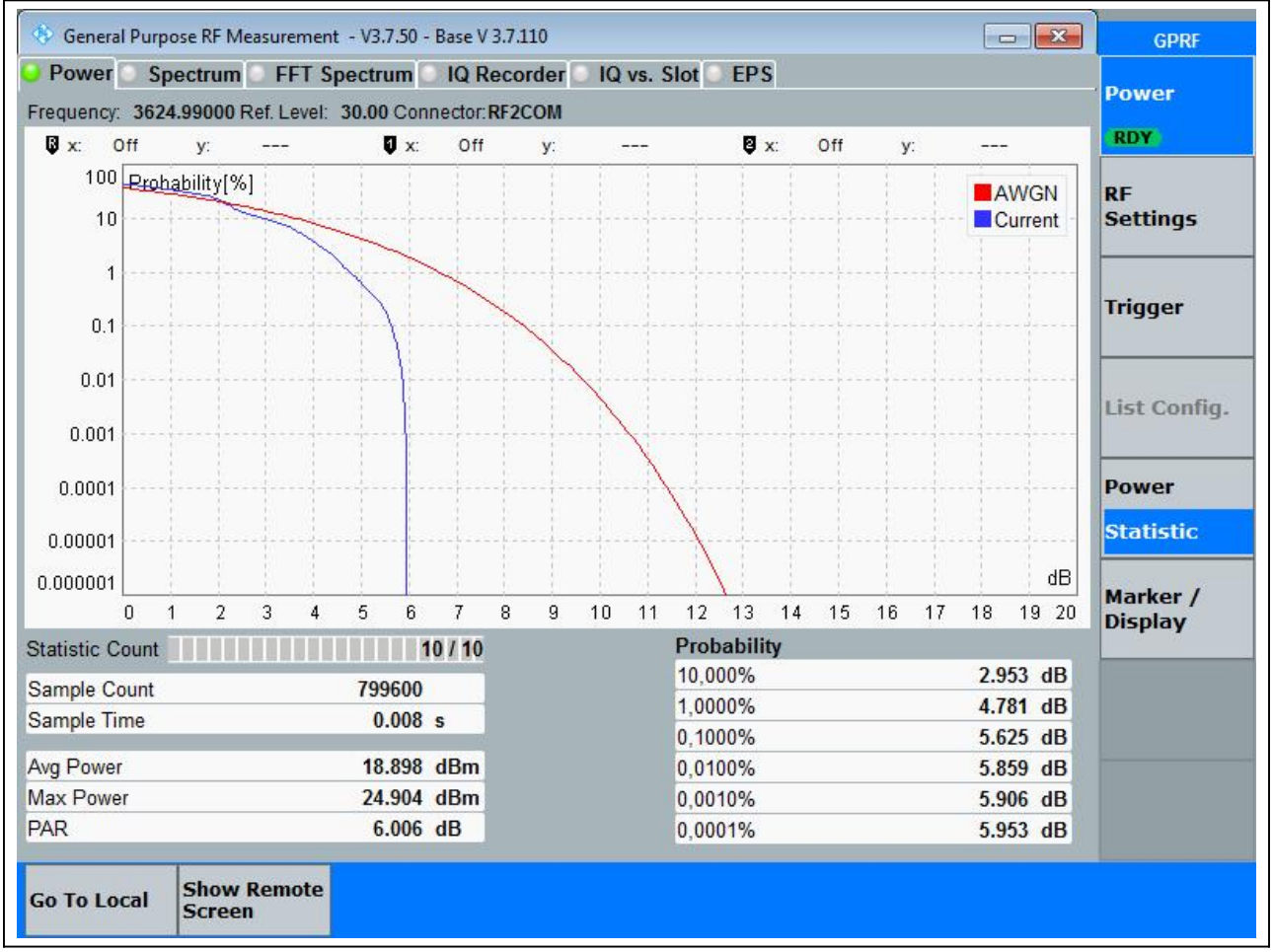
1.16 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	6.28	13	Pass



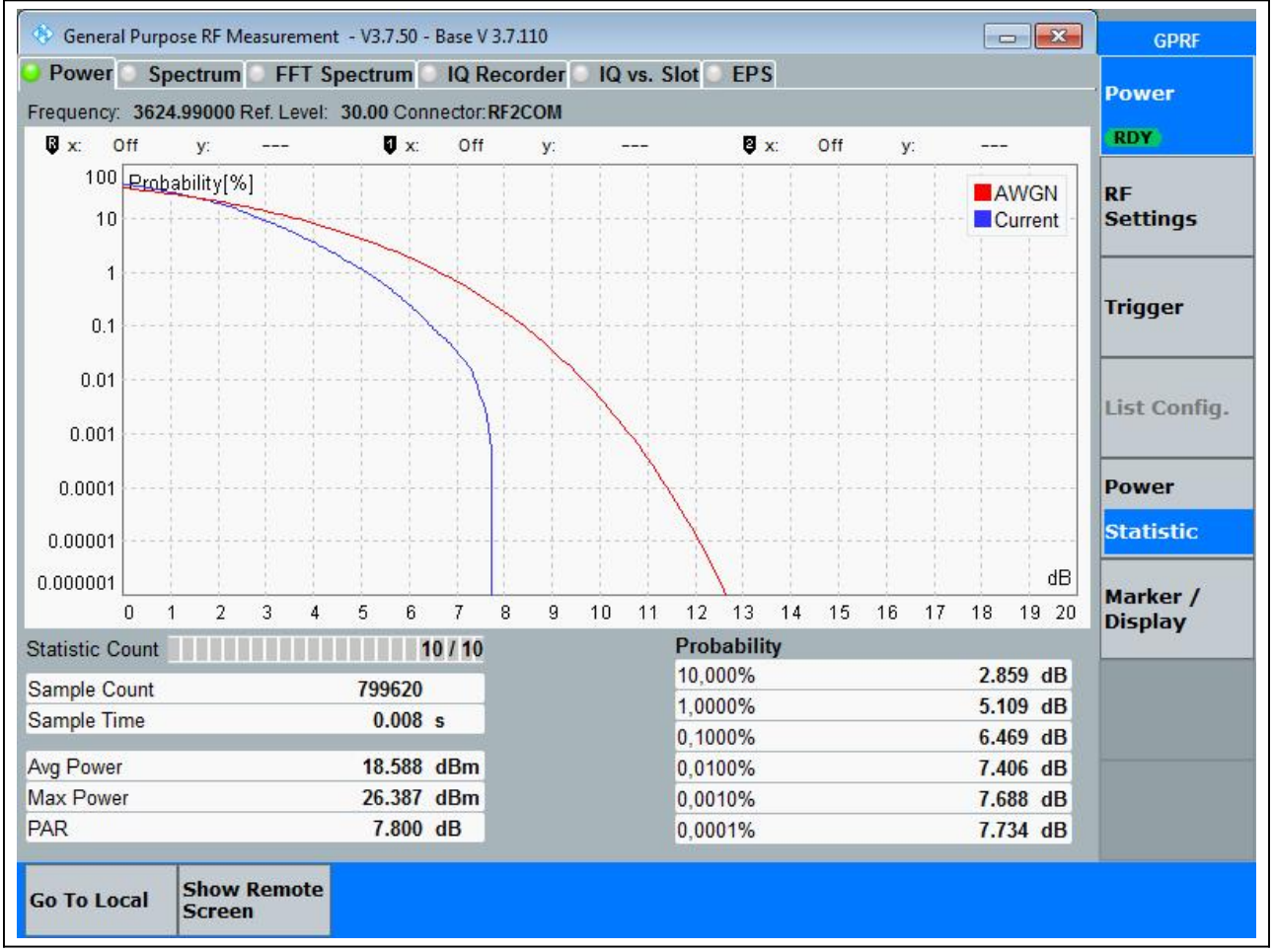
1.17 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	5.62	13	Pass



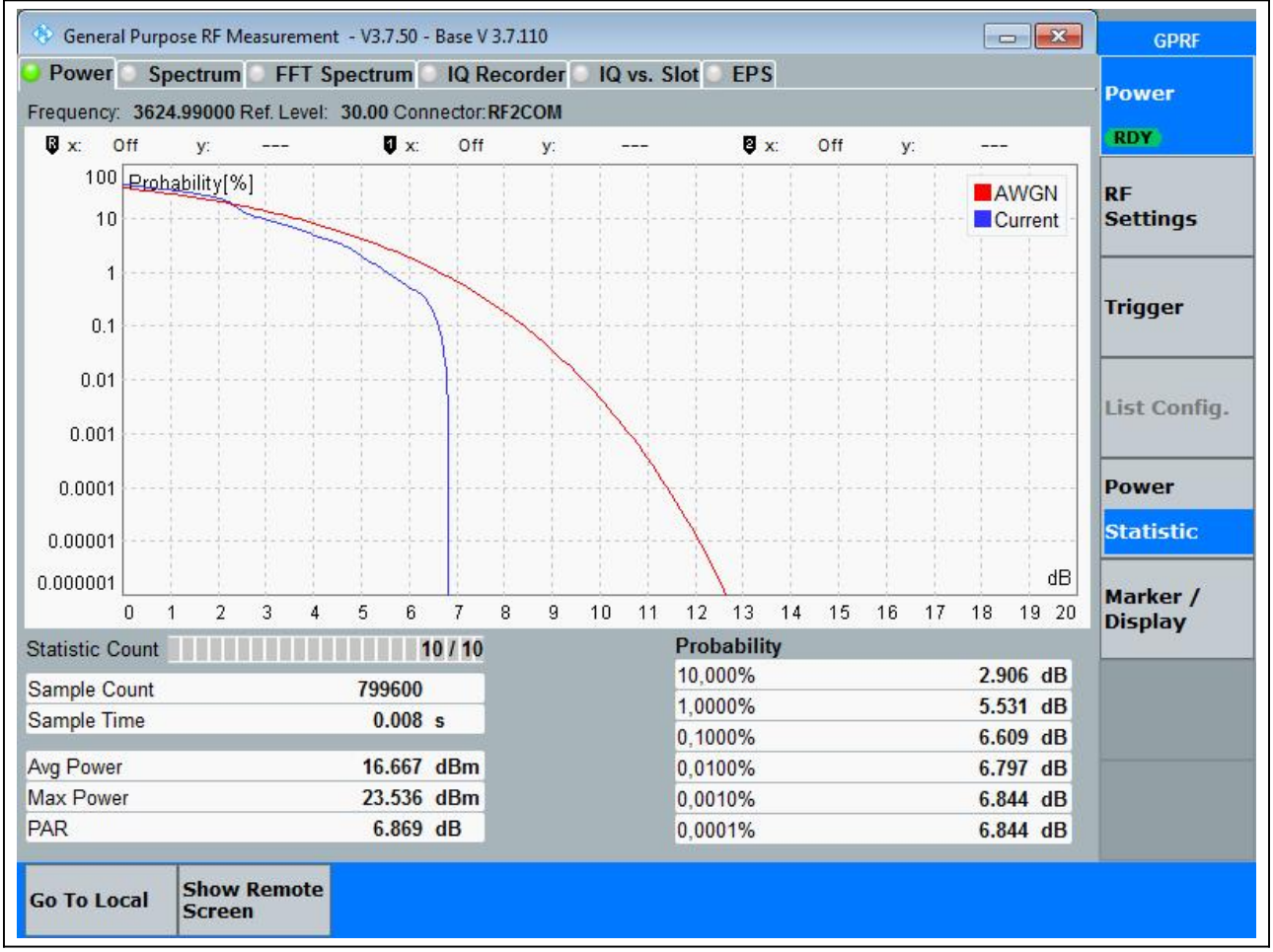
1.18 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:64QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	6.47	13	Pass



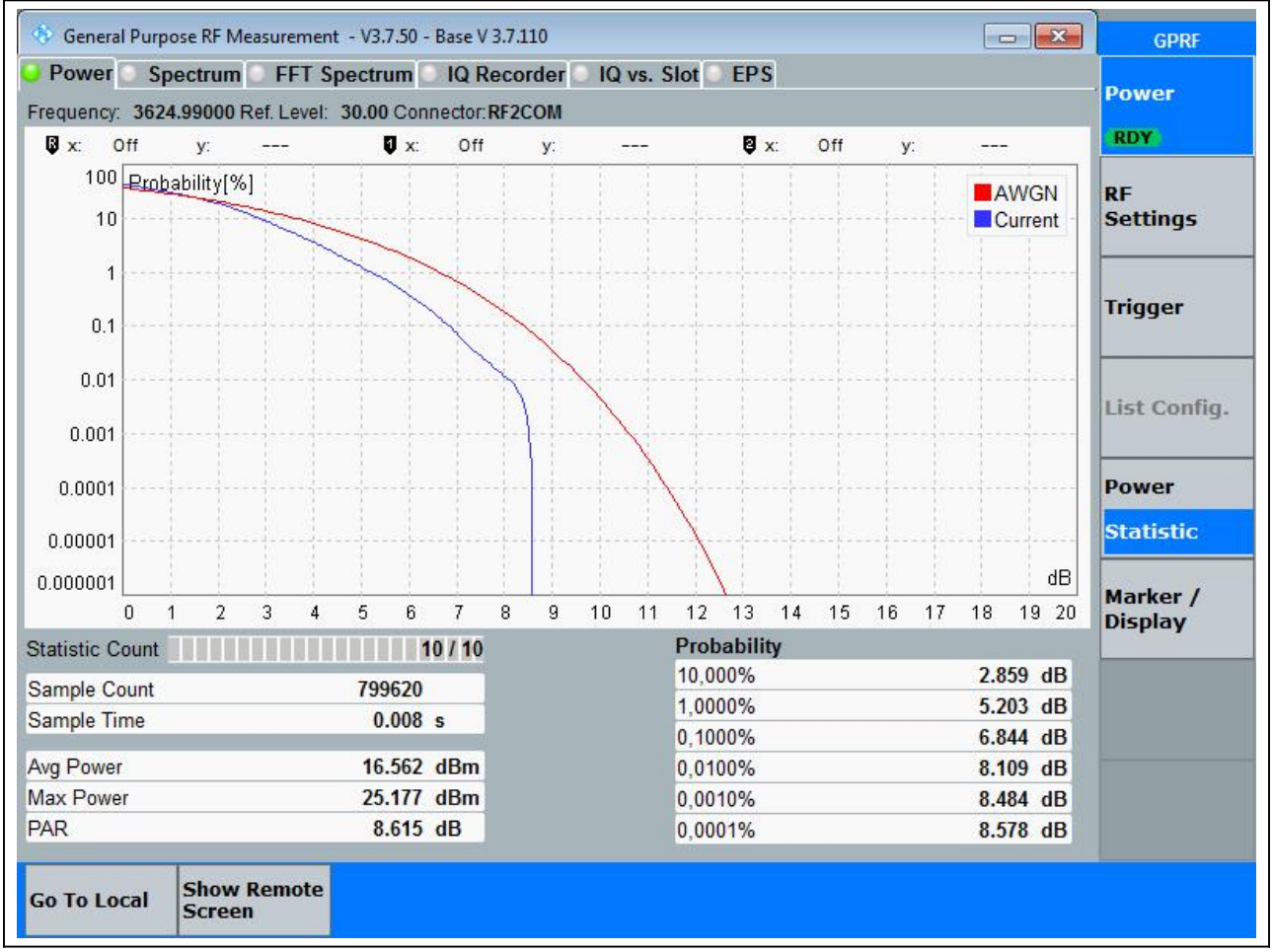
1.19 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	6.61	13	Pass



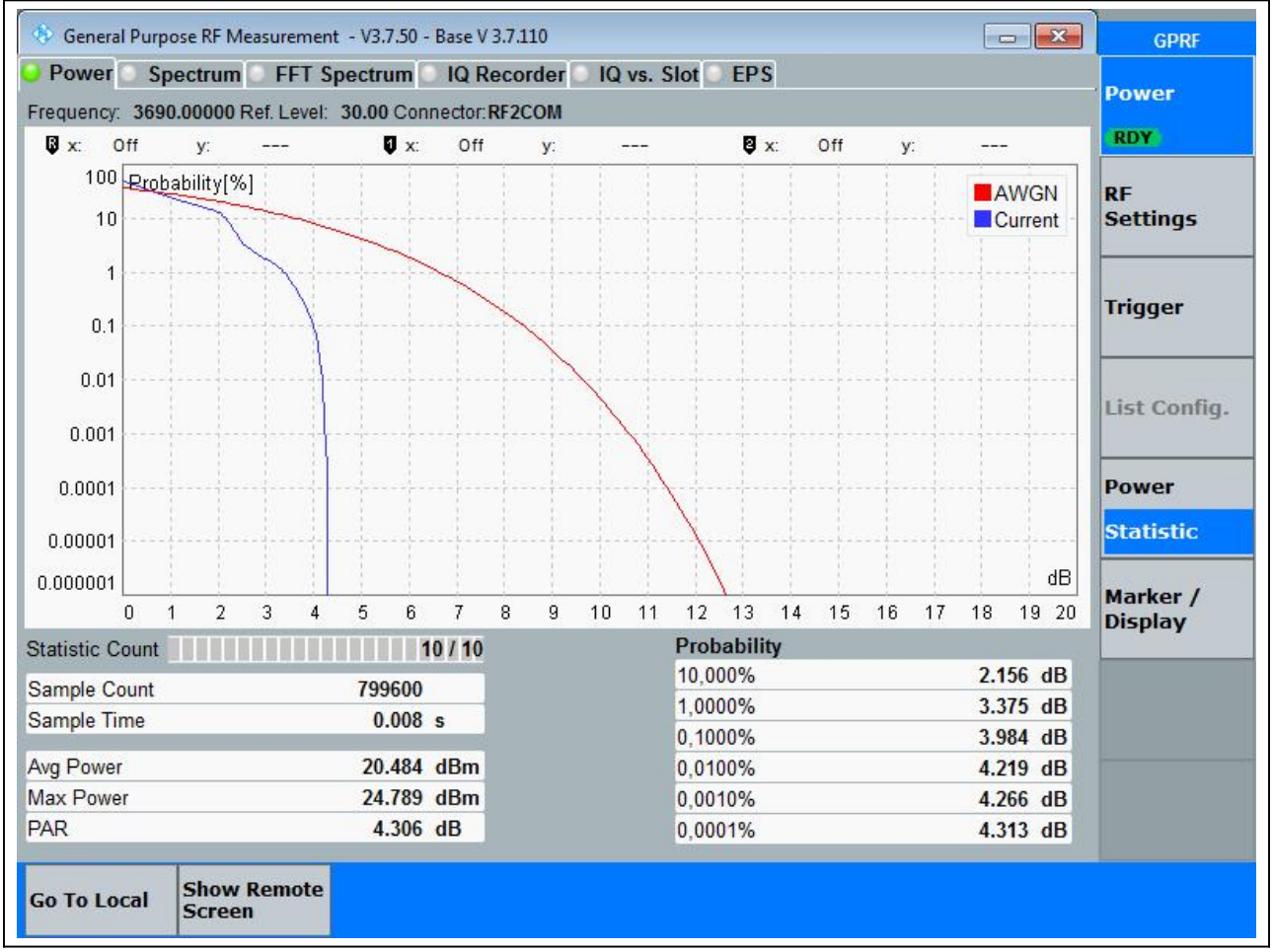
1.20 Peak to Average Ratio for SA_Part96(NTNV)(Channel:641666, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:256QAM, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3624.99	0.1	6.84	13	Pass



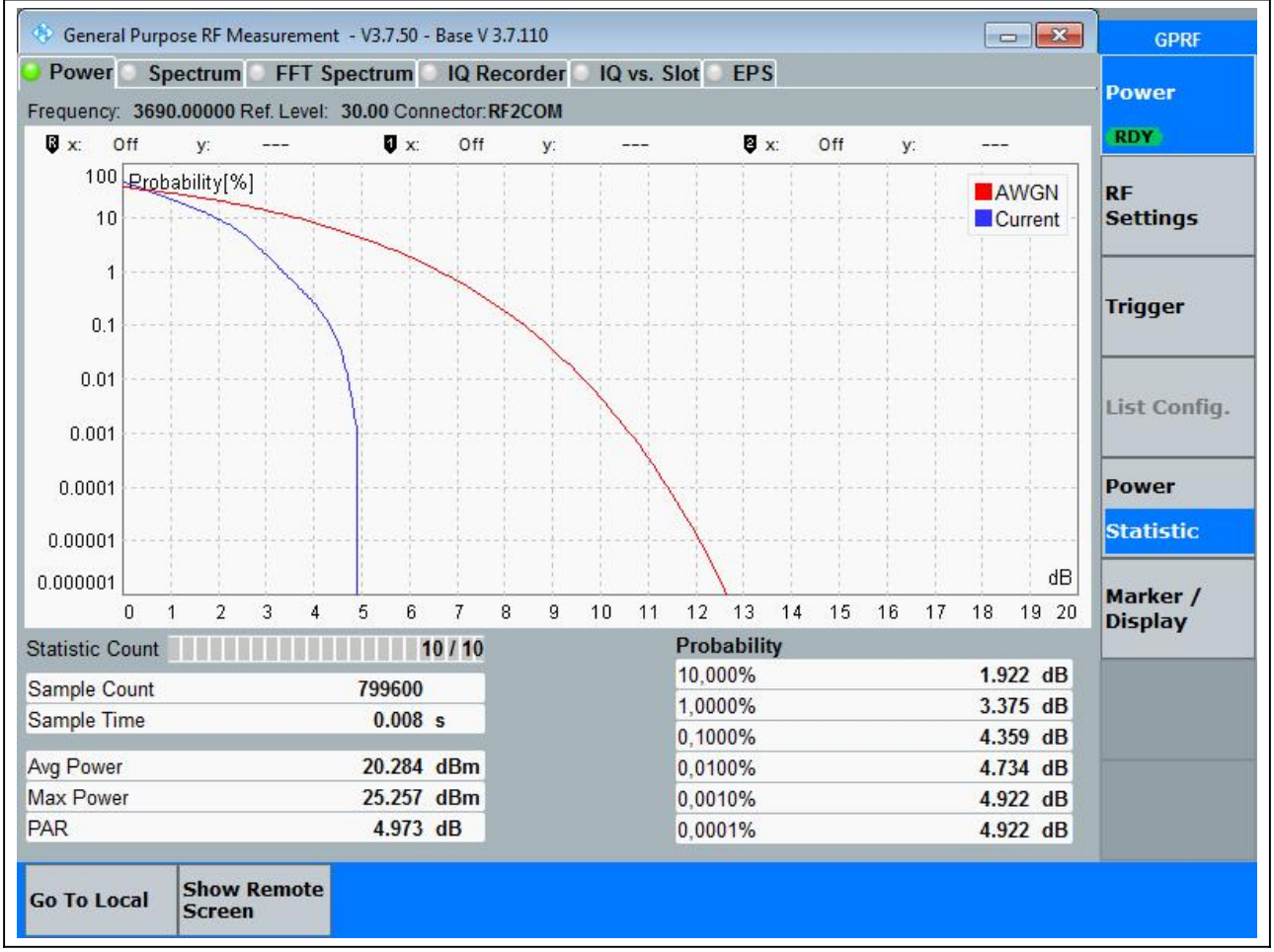
1.21 Peak to Average Ratio for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	3.98	13	Pass



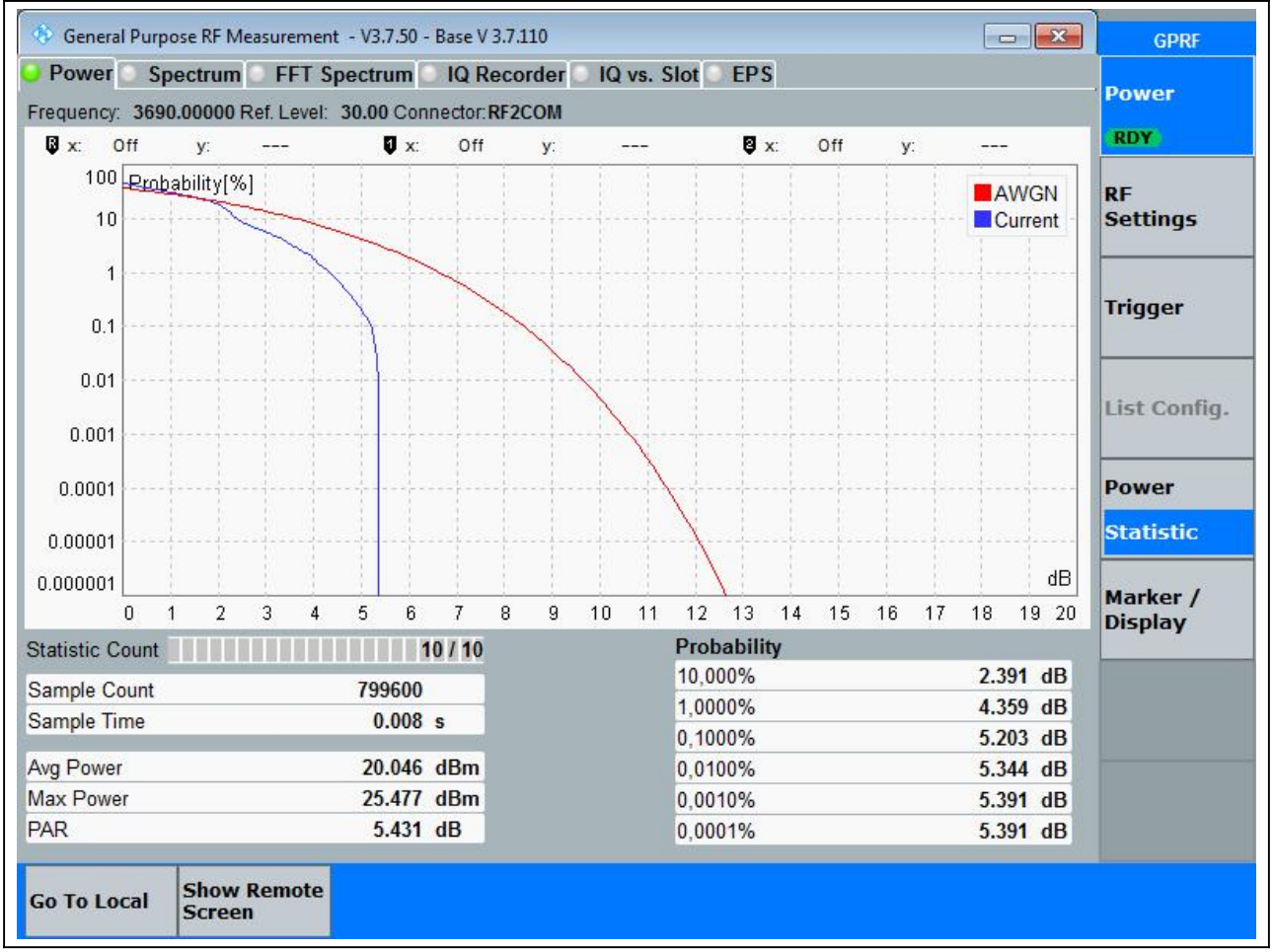
1.22 Peak to Average Ratio for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	4.36	13	Pass



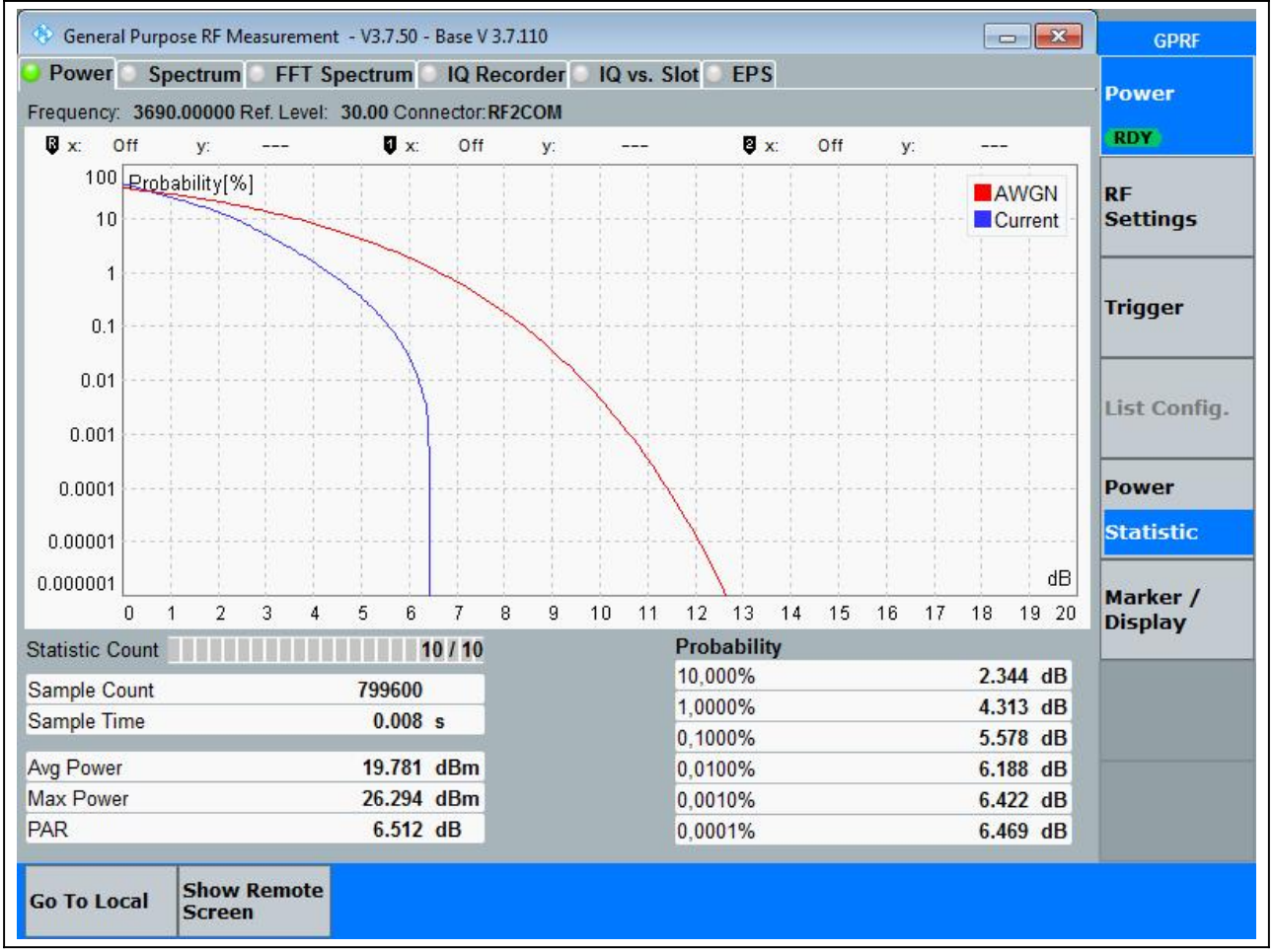
1.23 Peak to Average Ratio for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)

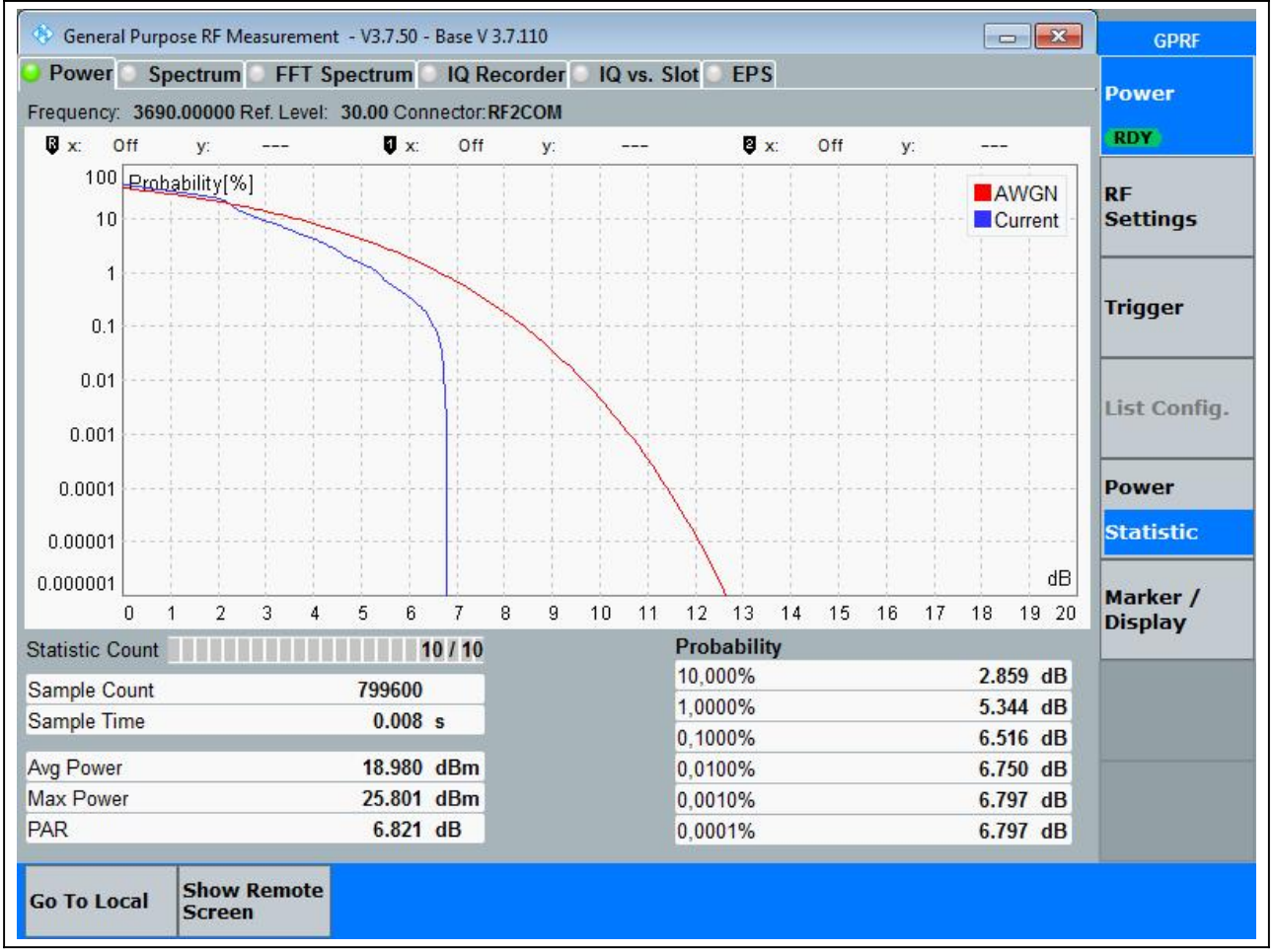
Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	5.2	13	Pass



1.24 Peak to Average Ratio for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:50, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	5.58	13	Pass



1.25 Peak to Average Ratio for SA_Part96(NTNV)(Channel:646000, Bandwidth:20, SCS:30, OFDM:DFT-s-OFDM, Modulation:16QAM, RB Number:1, RB Position:0)

Center Frequency(MHz)	PAR Percent (%)	PAR (dB)	Upper Limit (dB)	Verdict
3690	0.1	6.52	13	Pass