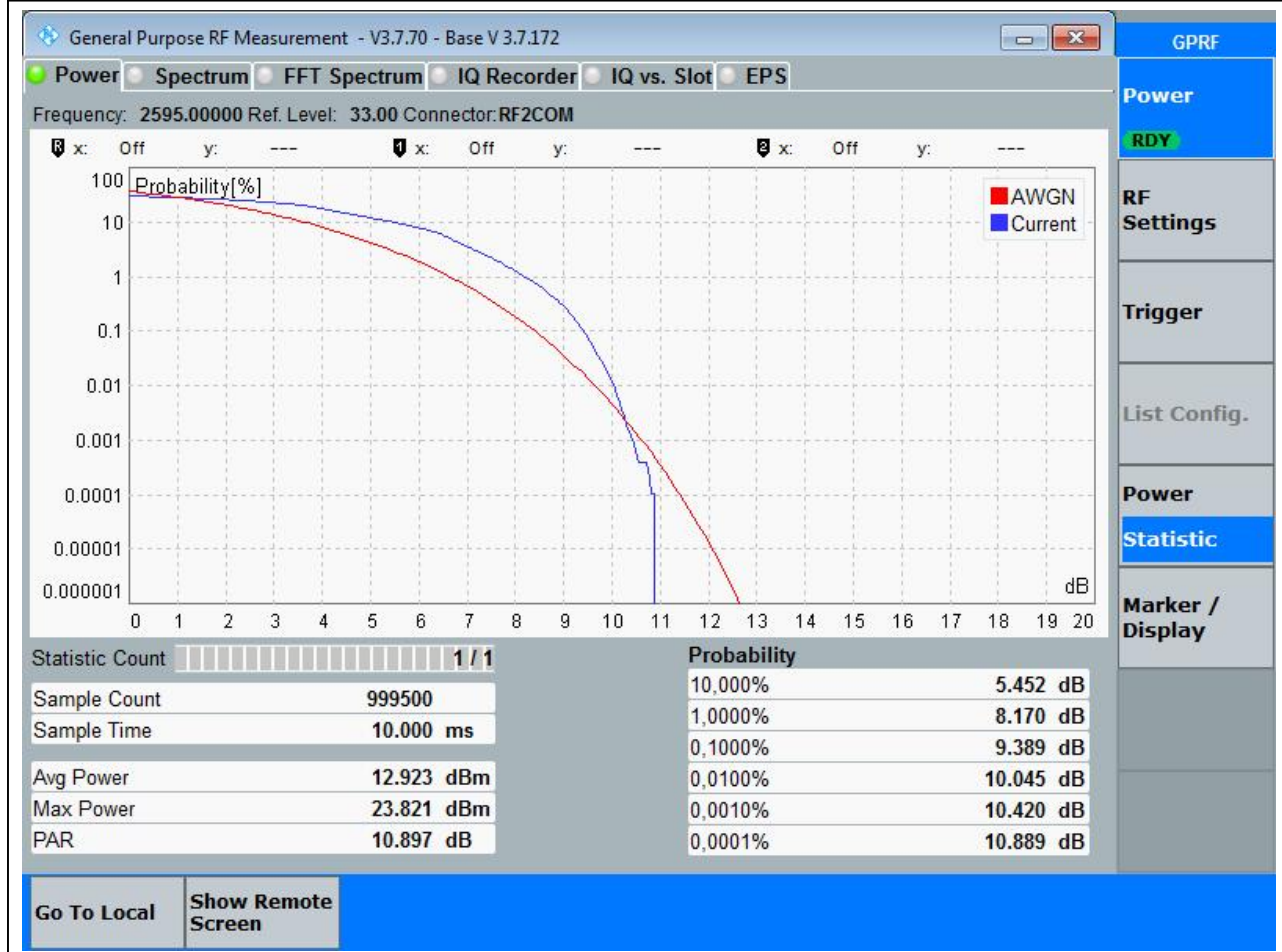


Peak to Average Ratio

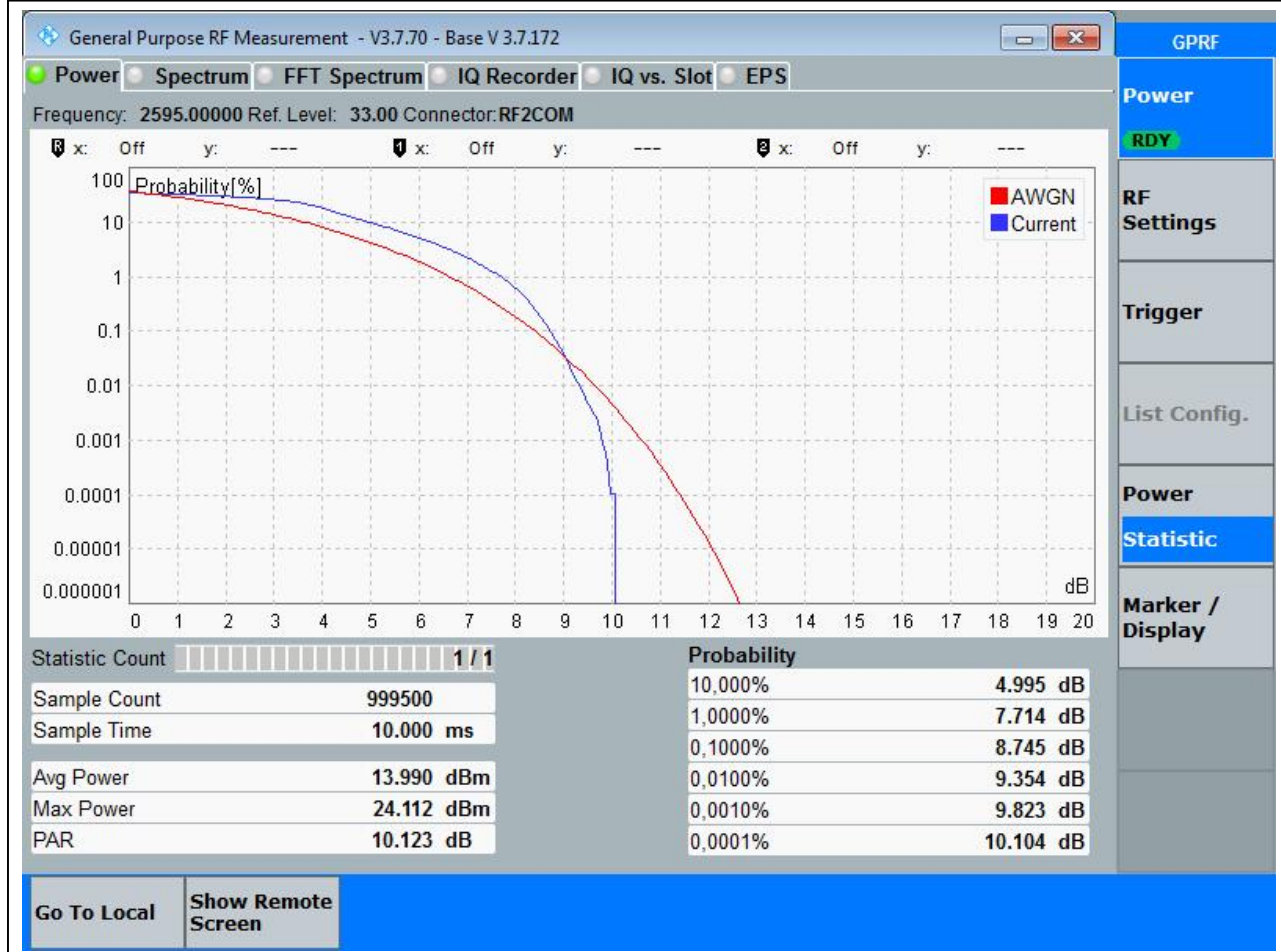
**3.2 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2,
Channel:37925|38075, Bandwidth:15|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2595	0.1	30	9.39	13	Pass

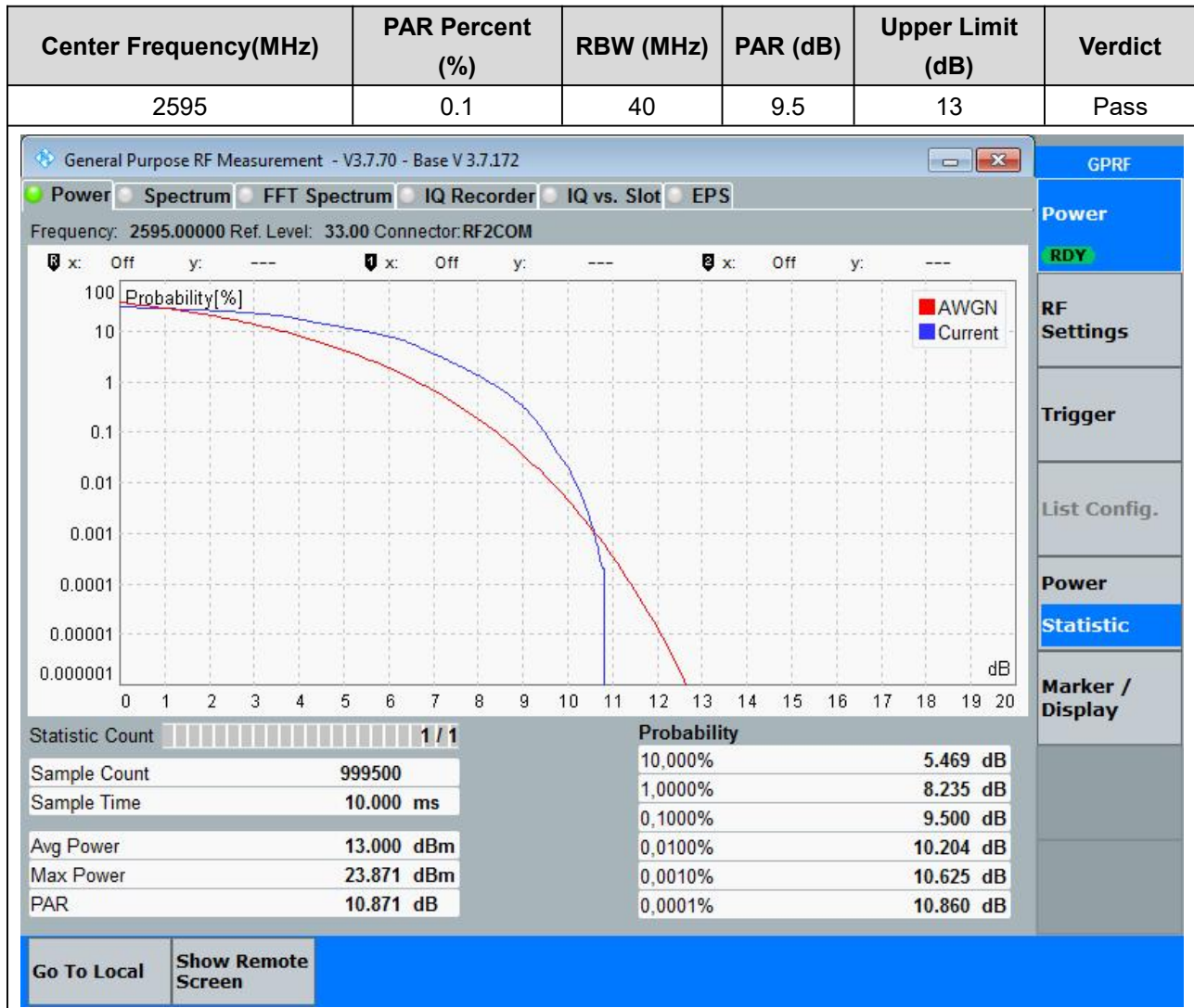


3.3 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3, Channel:37901|38099, Bandwidth:20|20MHz, Modulation:QPSK, RB Number:Full|Full, RB Position:Low|Low)

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2595	0.1	40	8.74	13	Pass

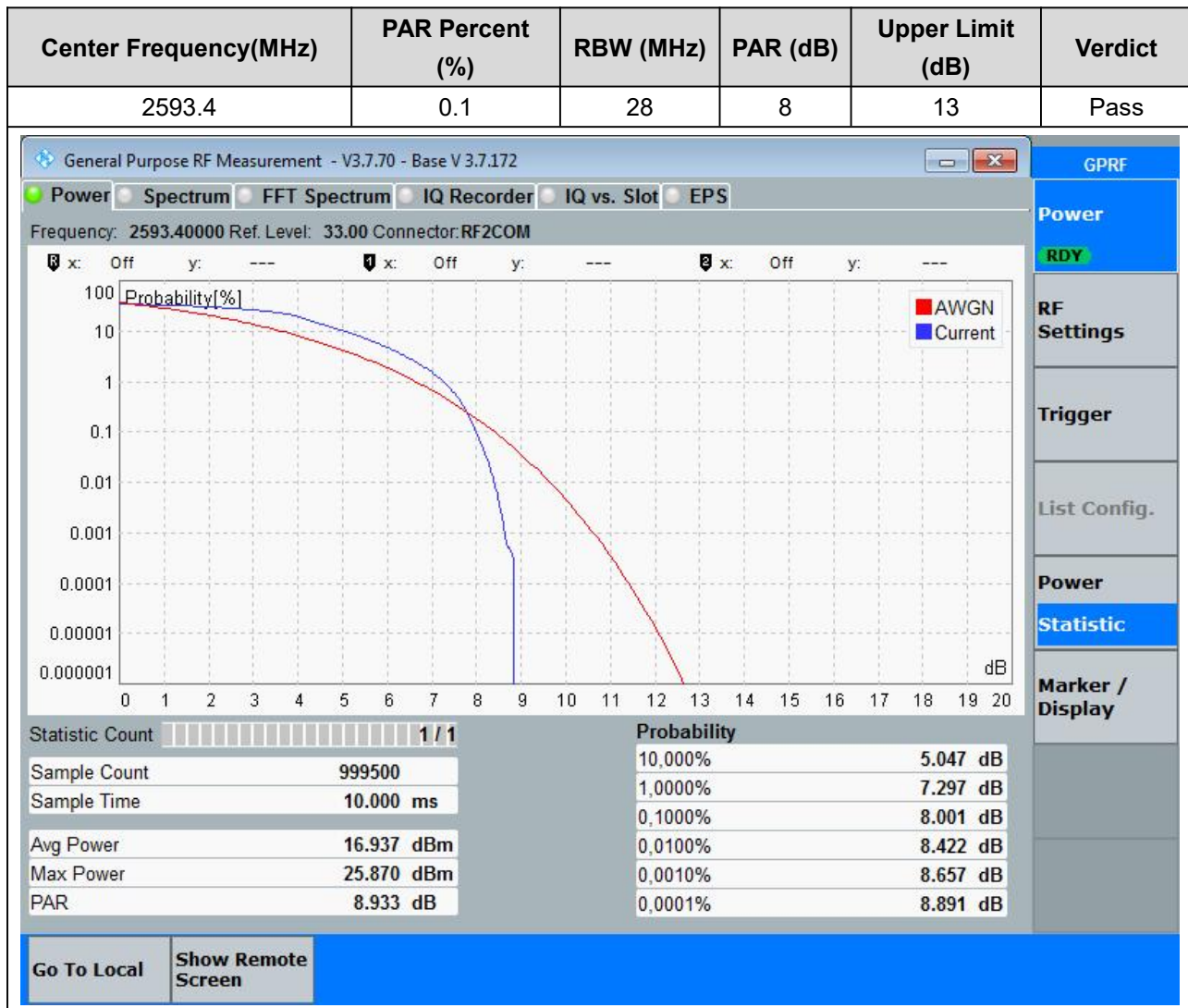


**3.4 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4,
Channel:37901|38099, Bandwidth:20|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

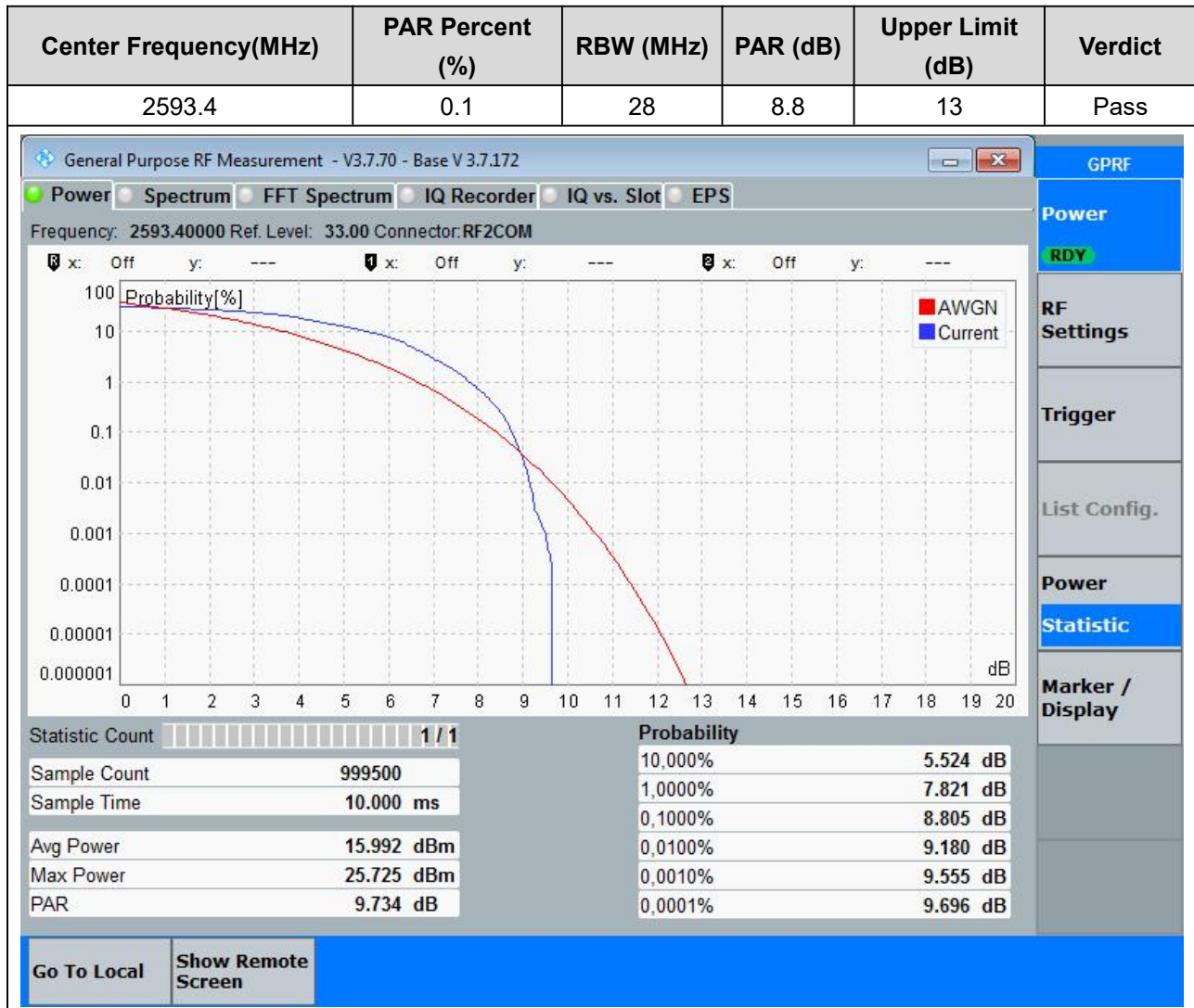


4. CA_41C_full

4.1 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1,
Channel:40528|40645, Bandwidth:5|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)

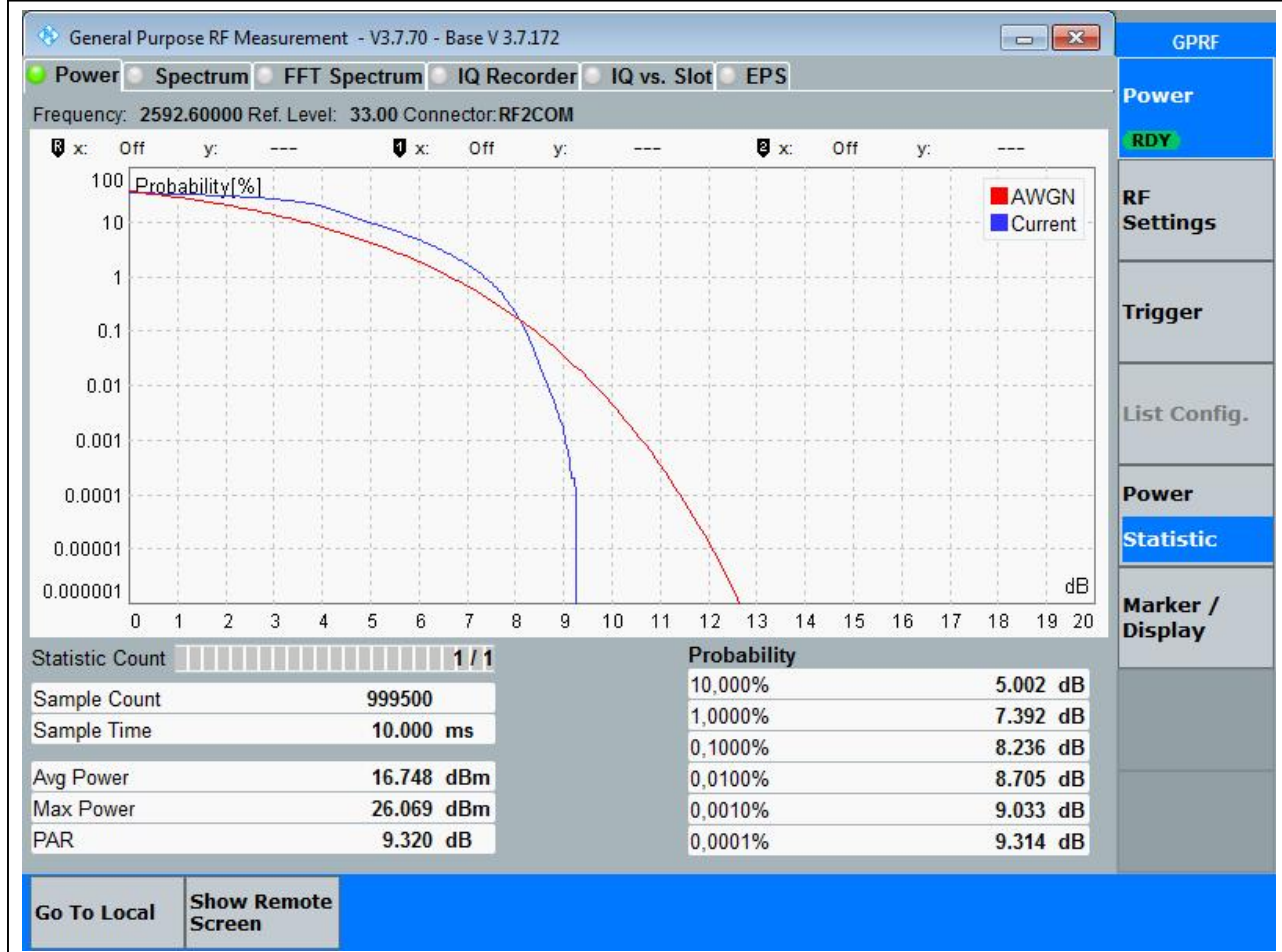


**4.2 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2,
Channel:40528|40645, Bandwidth:5|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

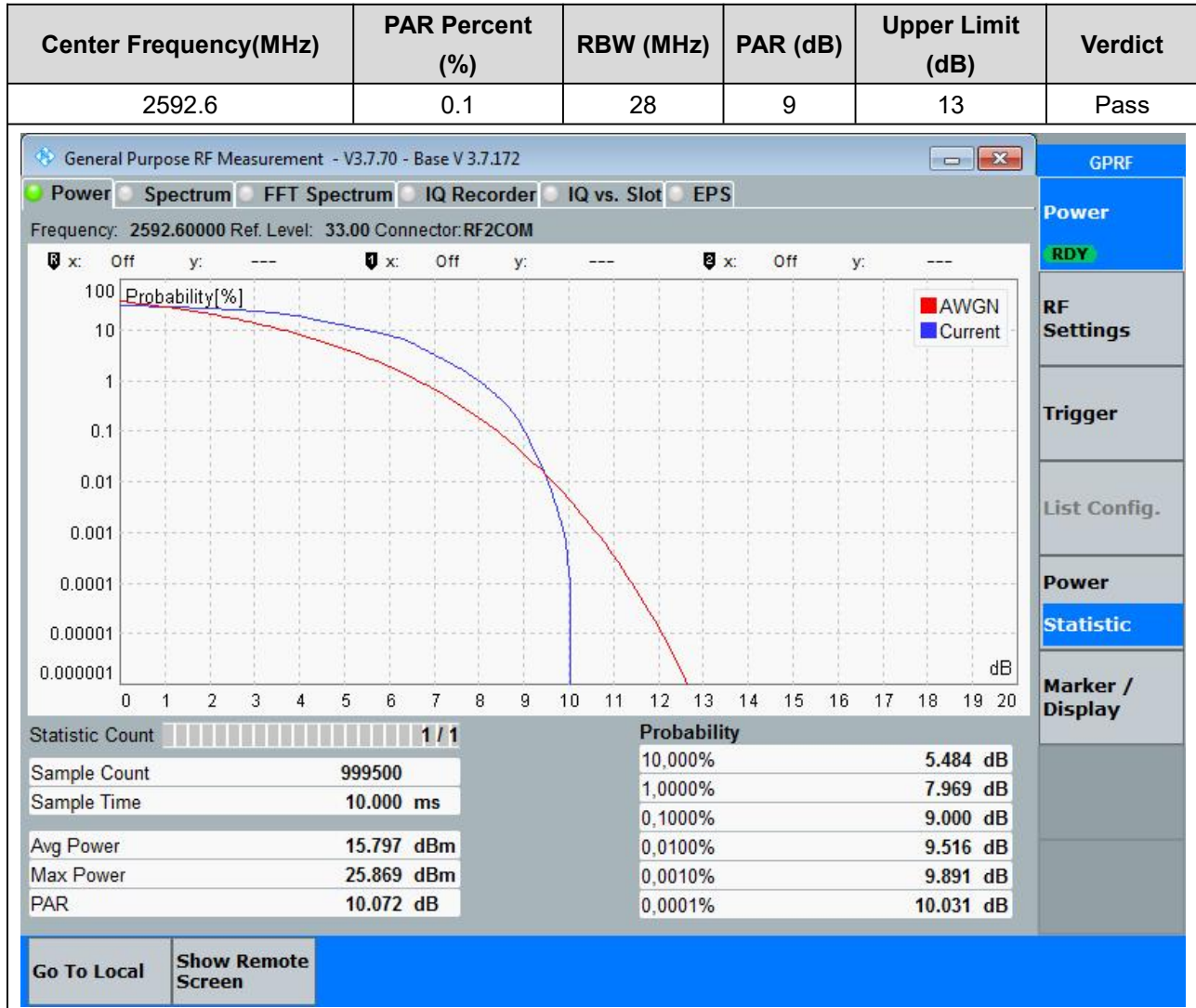


**4.3 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3,
Channel:40595|40712, Bandwidth:20|5MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

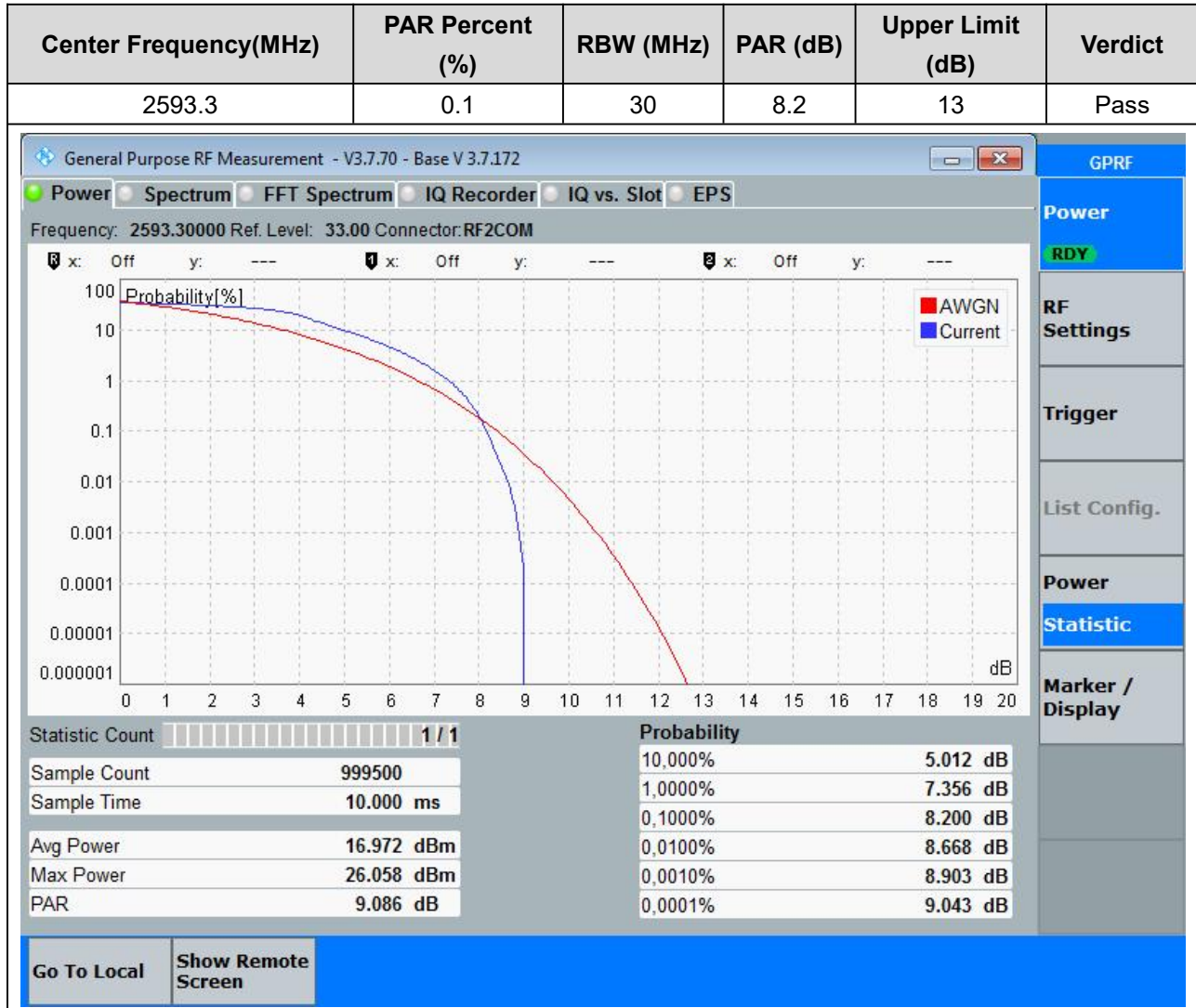
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2592.6	0.1	28	8.24	13	Pass



**4.4 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4,
Channel:40595|40712, Bandwidth:20|5MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

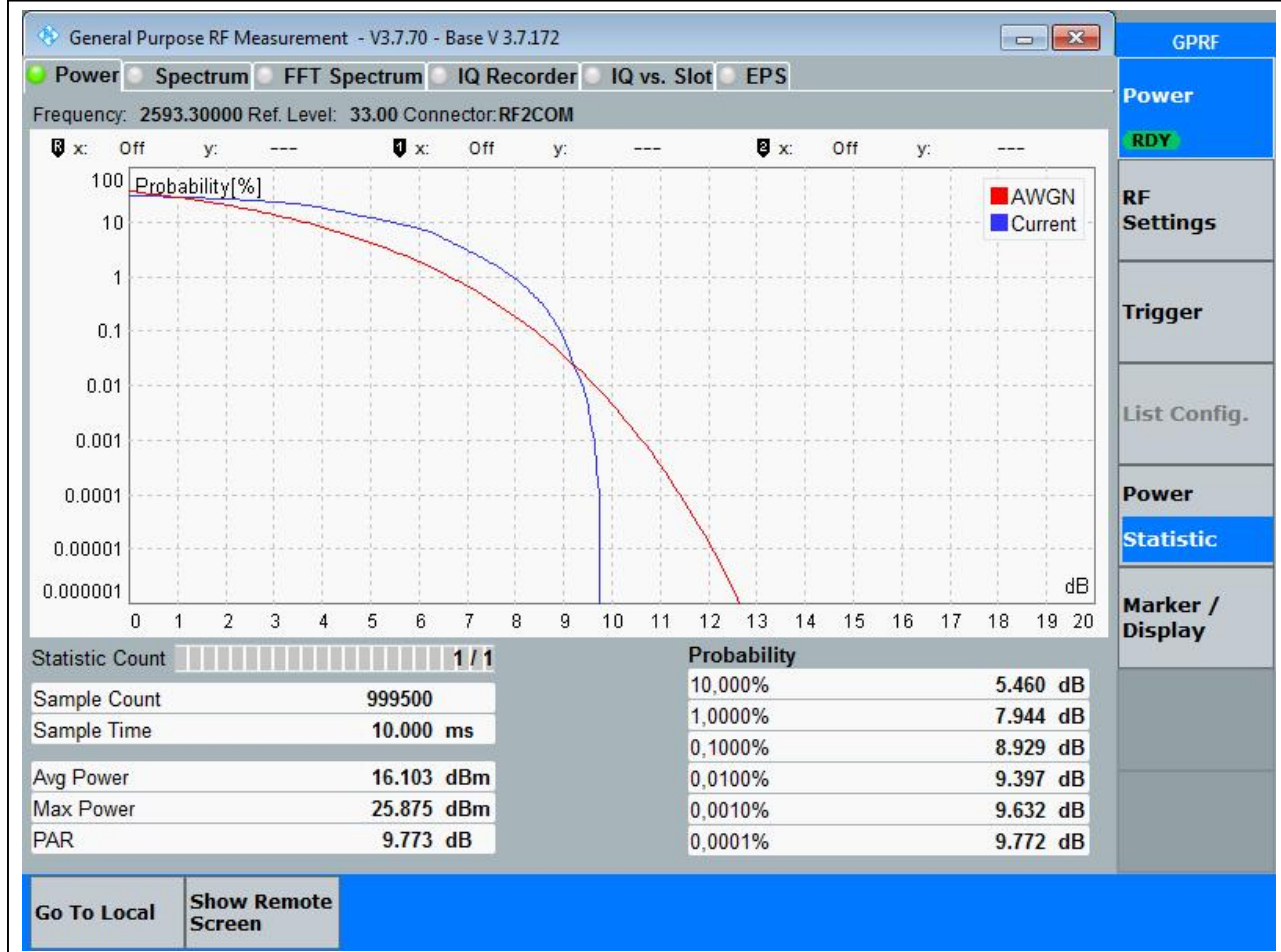


**4.5 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5,
Channel:40526|40670, Bandwidth:10|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



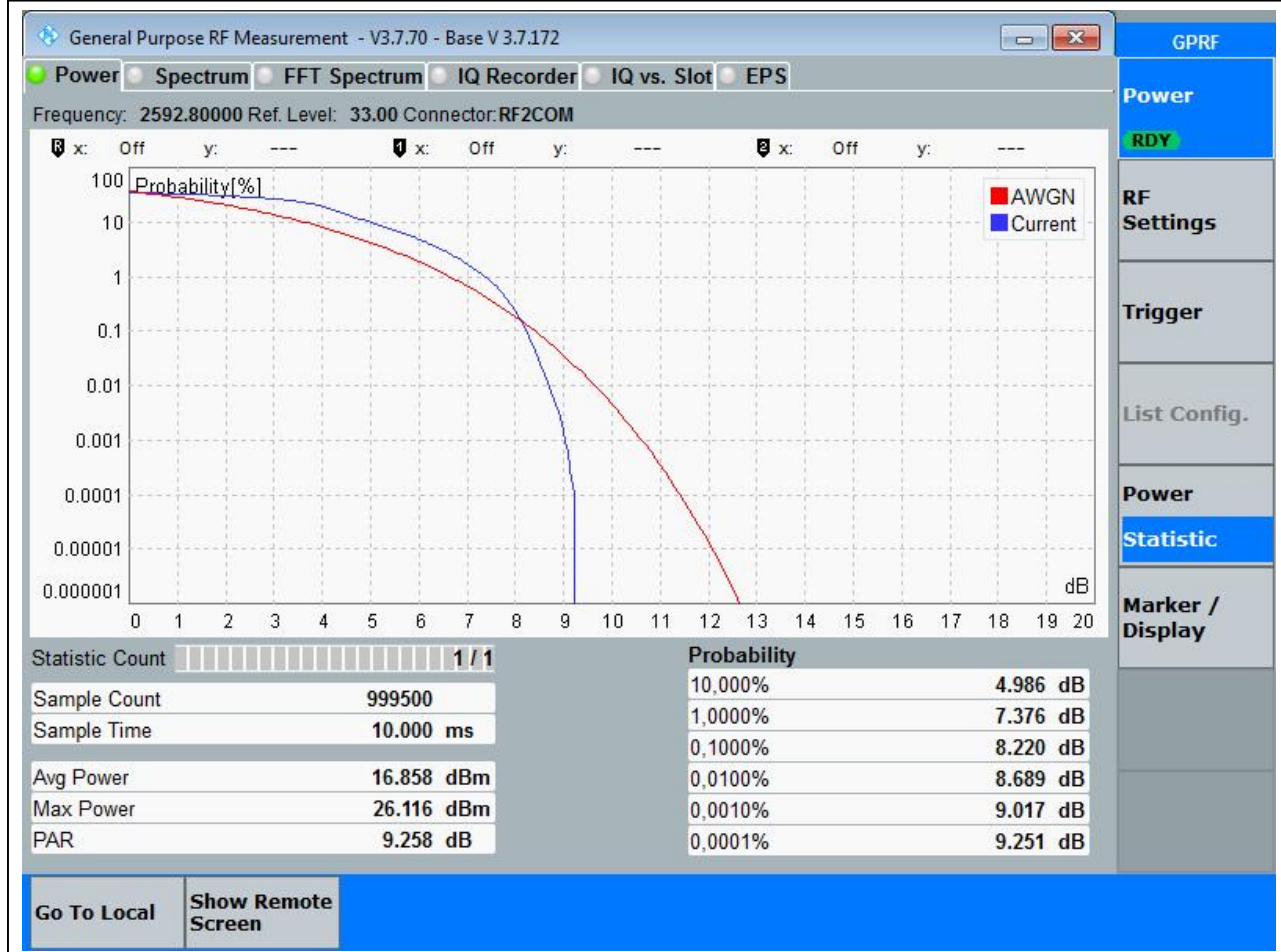
**4.6 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6,
Channel:40526|40670, Bandwidth:10|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2593.3	0.1	30	8.93	13	Pass

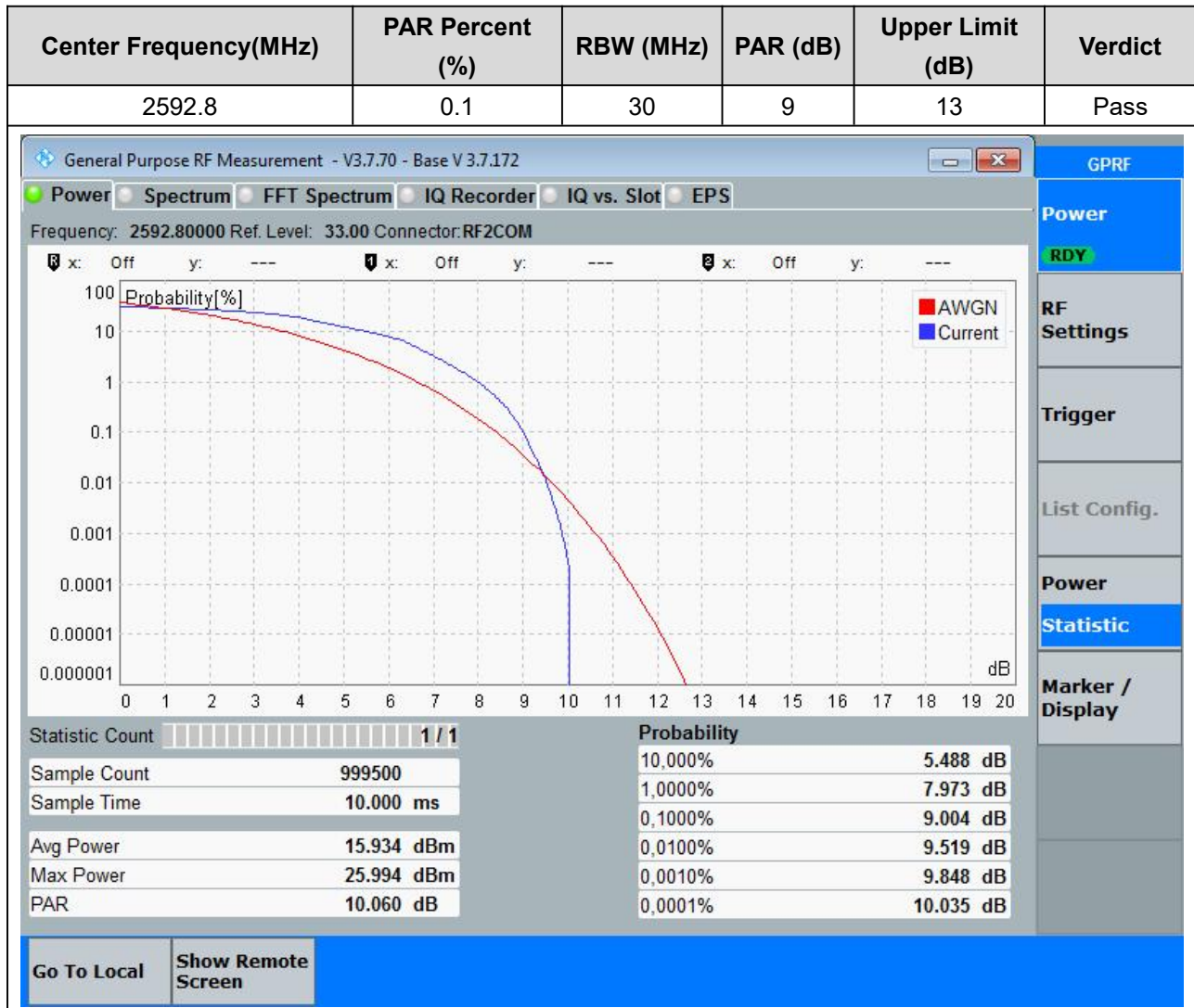


**4.7 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7,
Channel:40571|40715, Bandwidth:20|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2592.8	0.1	30	8.22	13	Pass

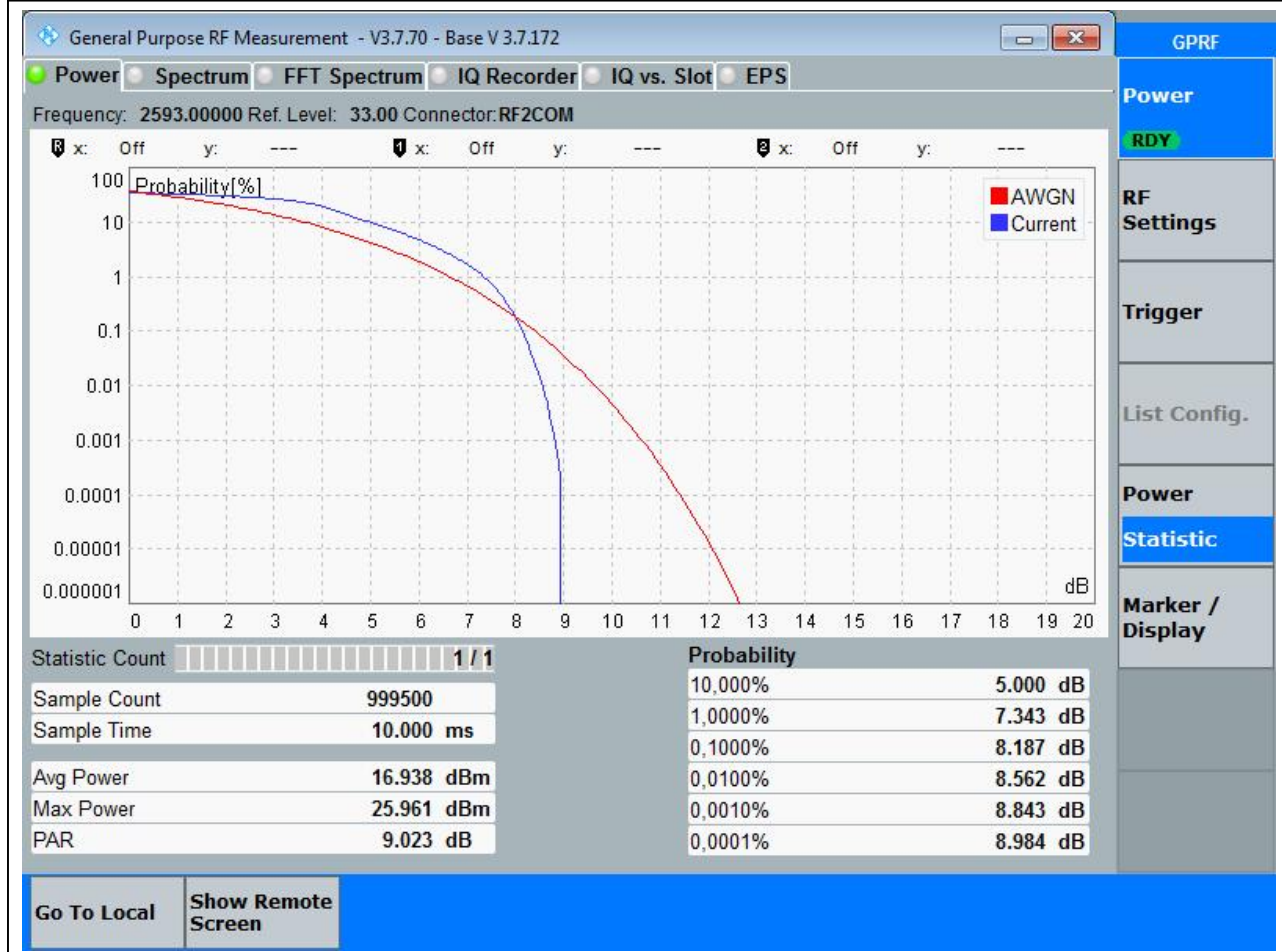


**4.8 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8,
Channel:40571|40715, Bandwidth:20|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

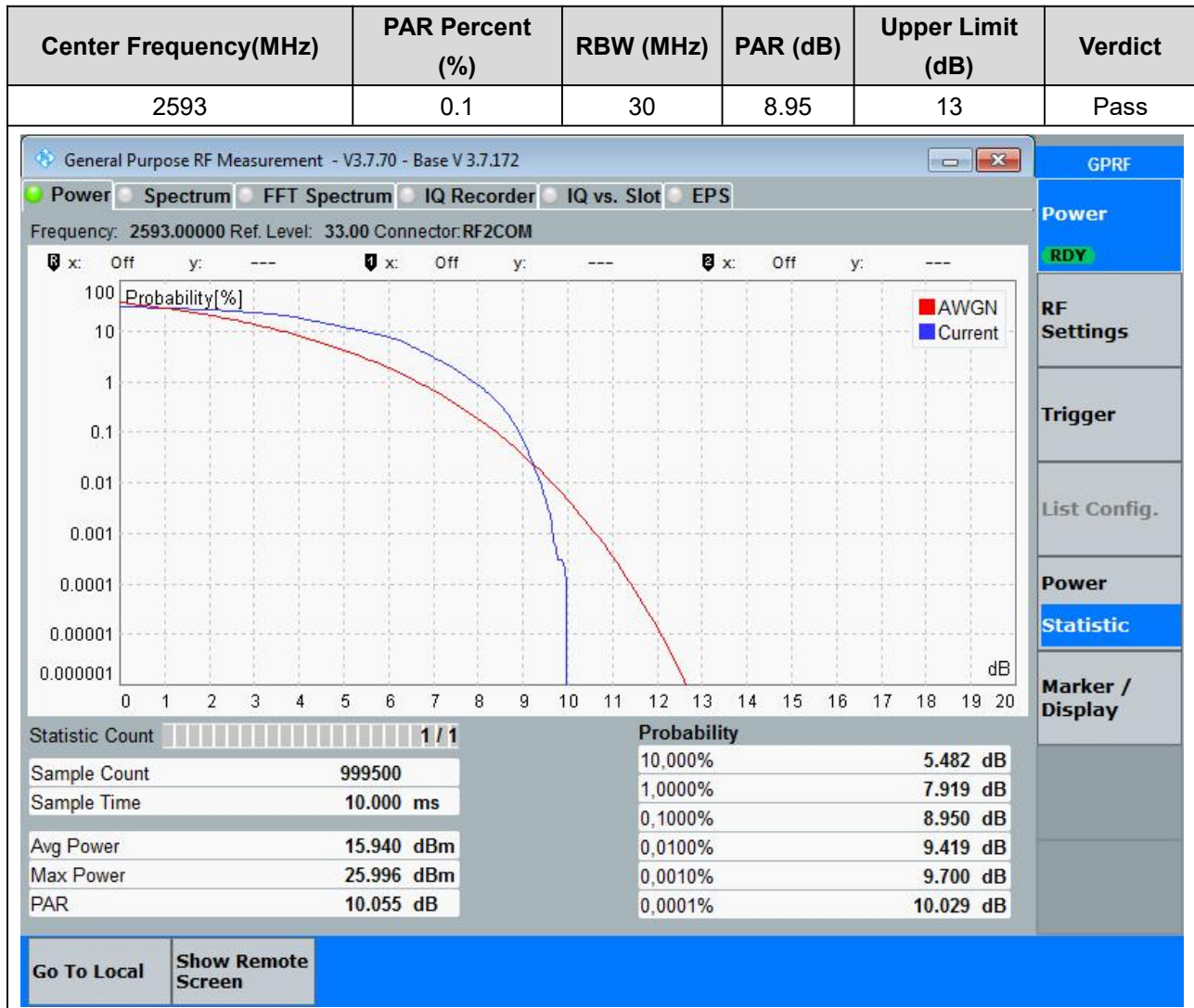


**4.9 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9,
Channel:40545|40695, Bandwidth:15|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

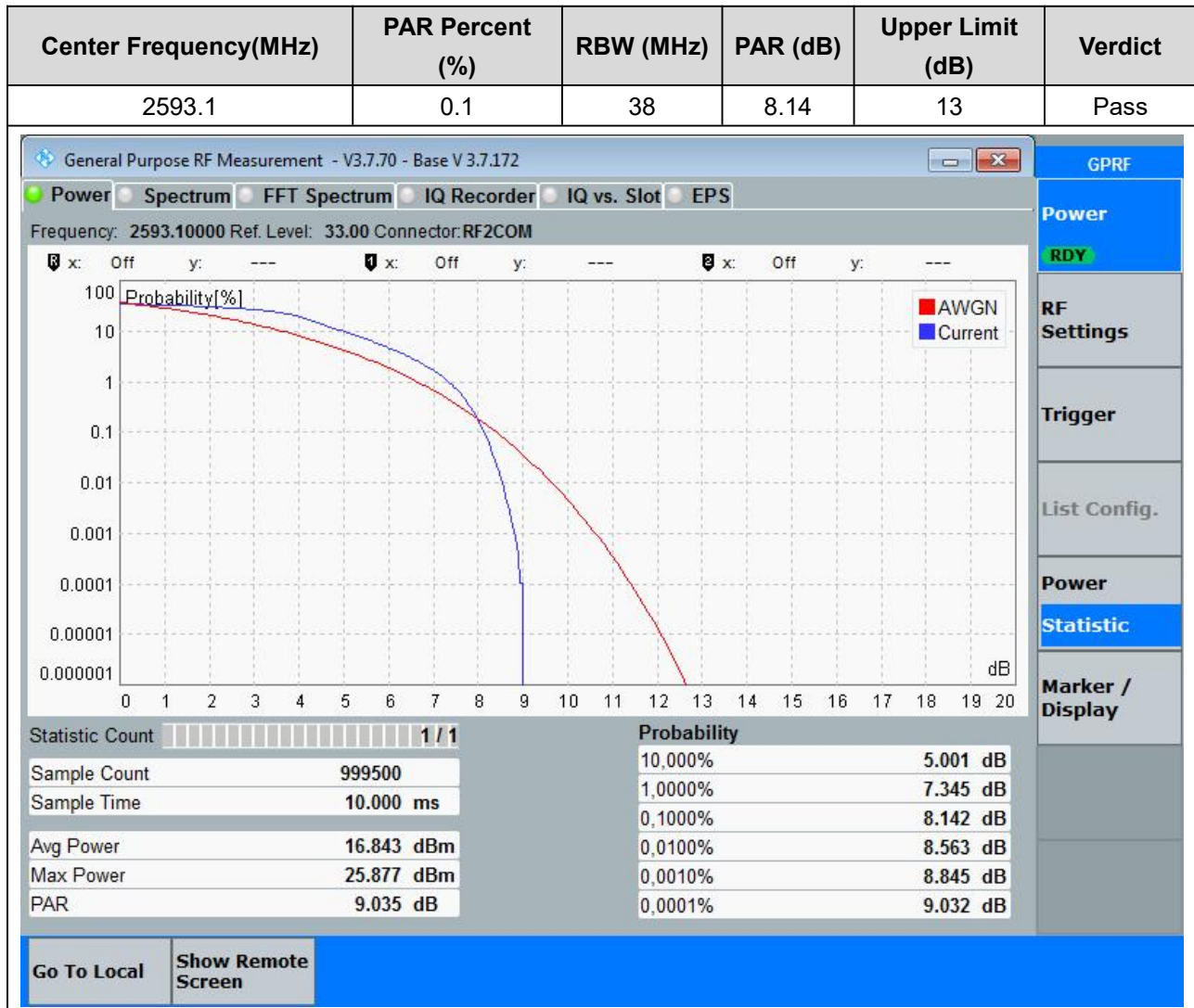
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2593	0.1	30	8.19	13	Pass



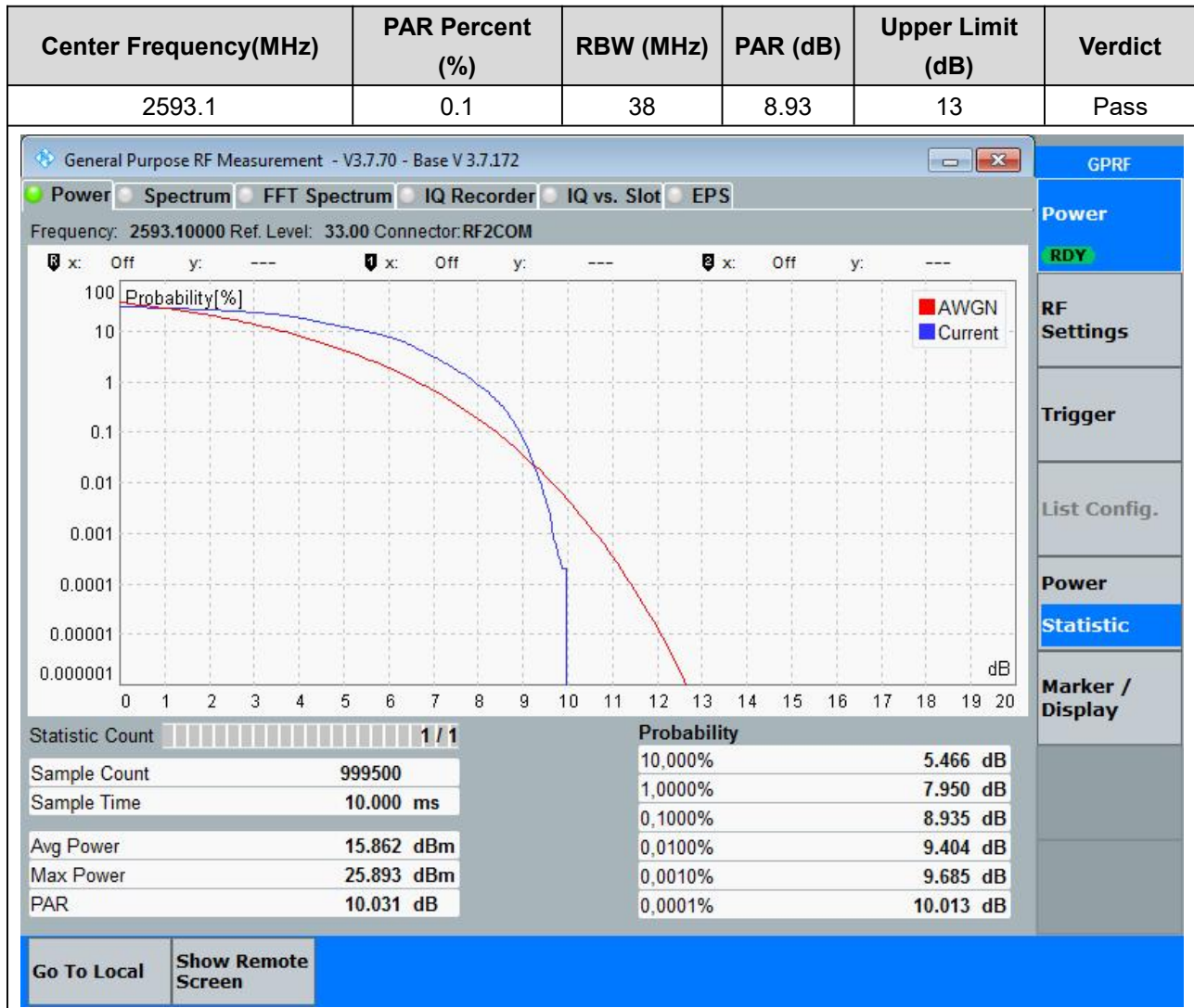
**4.10 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10,
Channel:40545|40695, Bandwidth:15|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



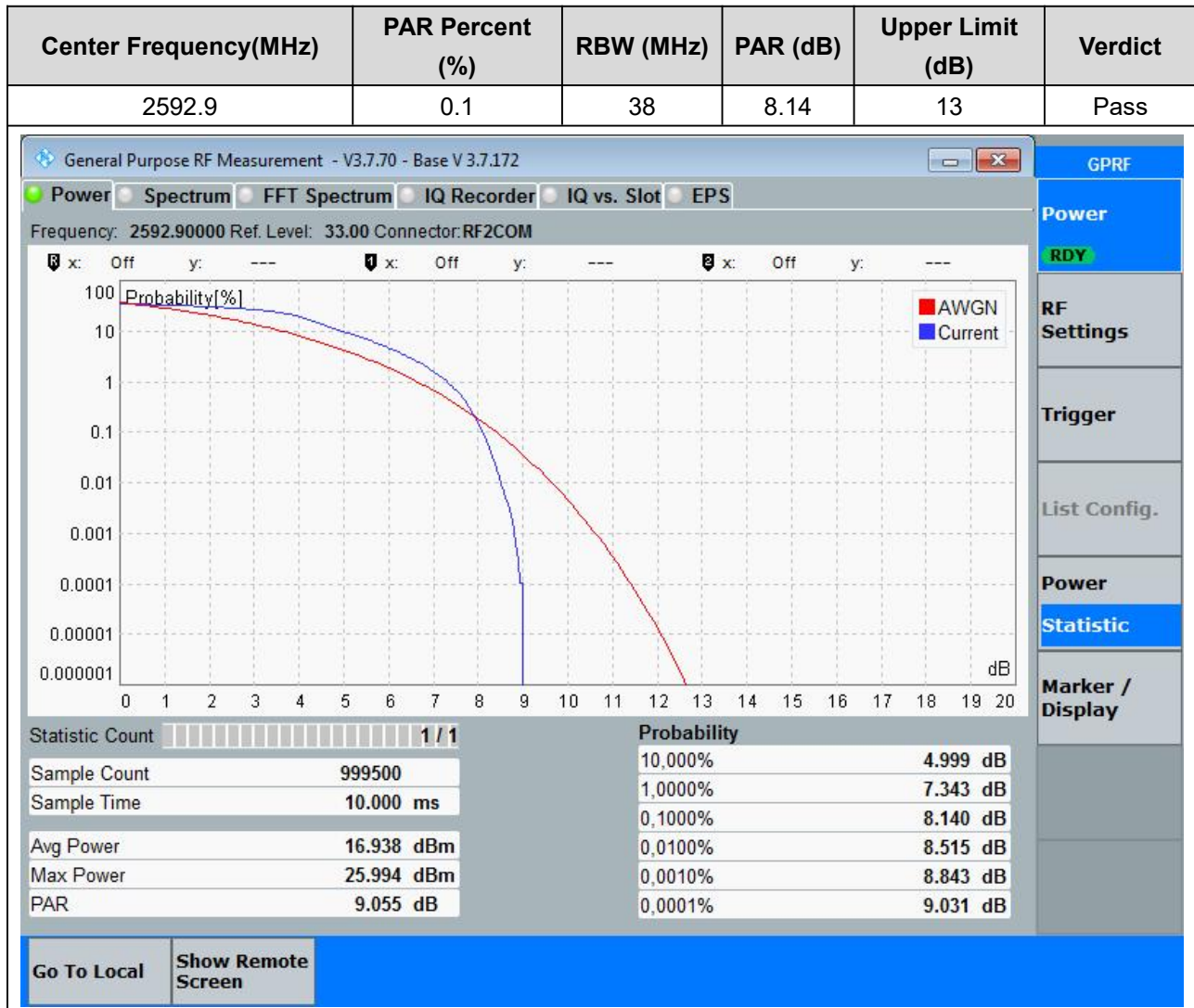
**4.11 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11,
Channel:40523|40694, Bandwidth:15|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



**4.12 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12,
Channel:40523|40694, Bandwidth:15|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

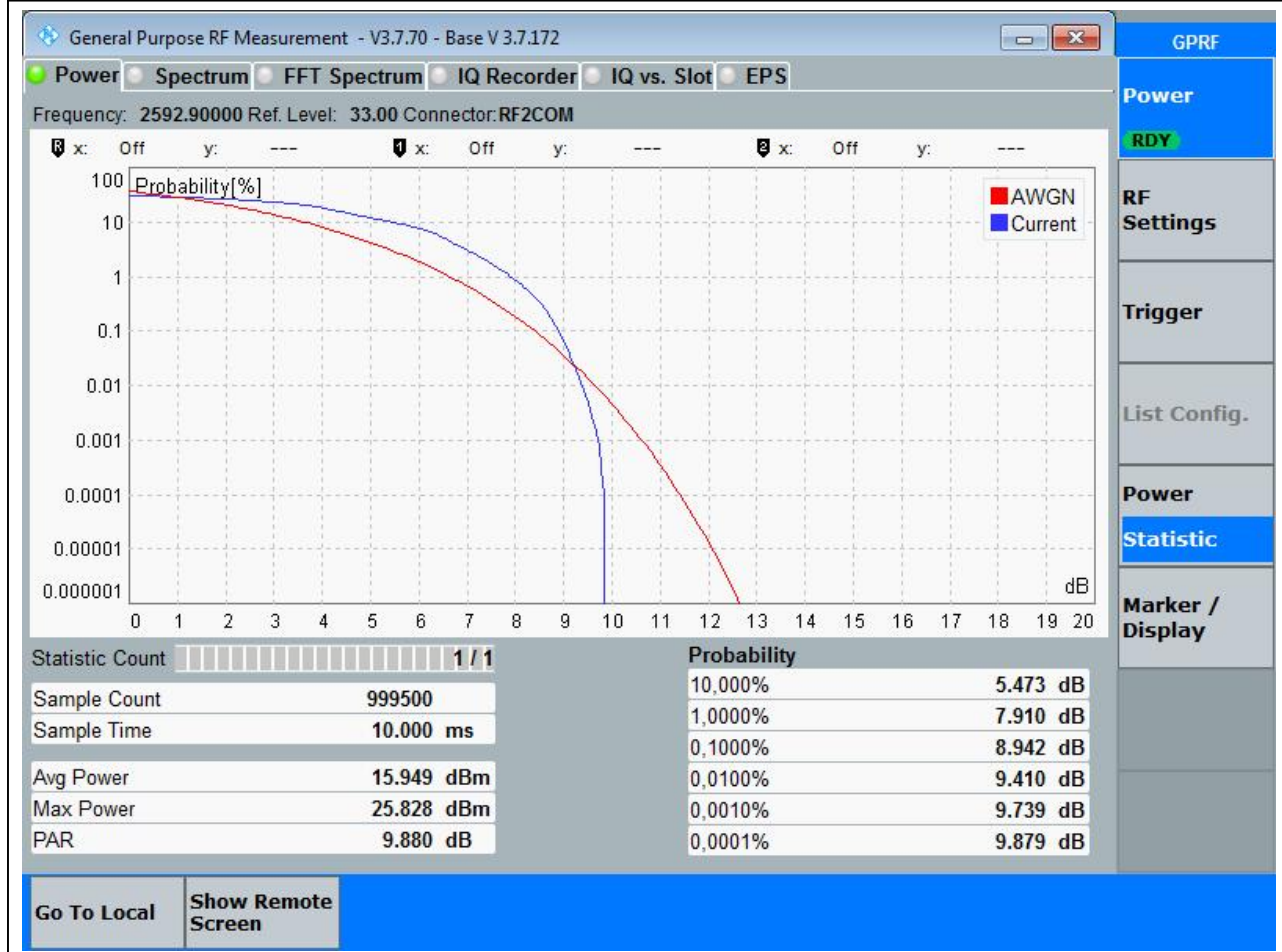


**4.13 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:13,
Channel:40546|40717, Bandwidth:20|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



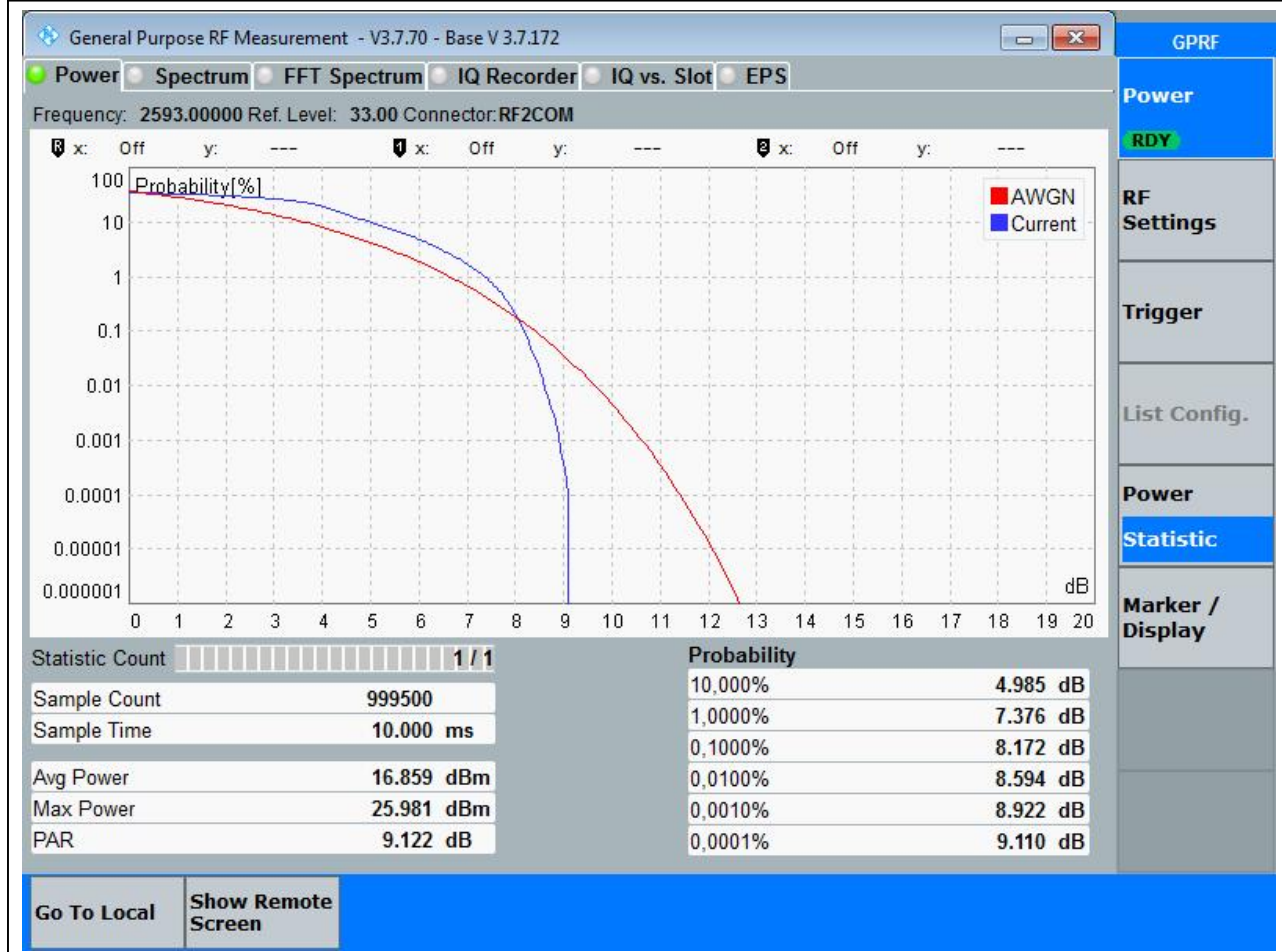
**4.14 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:14,
Channel:40546|40717, Bandwidth:20|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2592.9	0.1	38	8.94	13	Pass

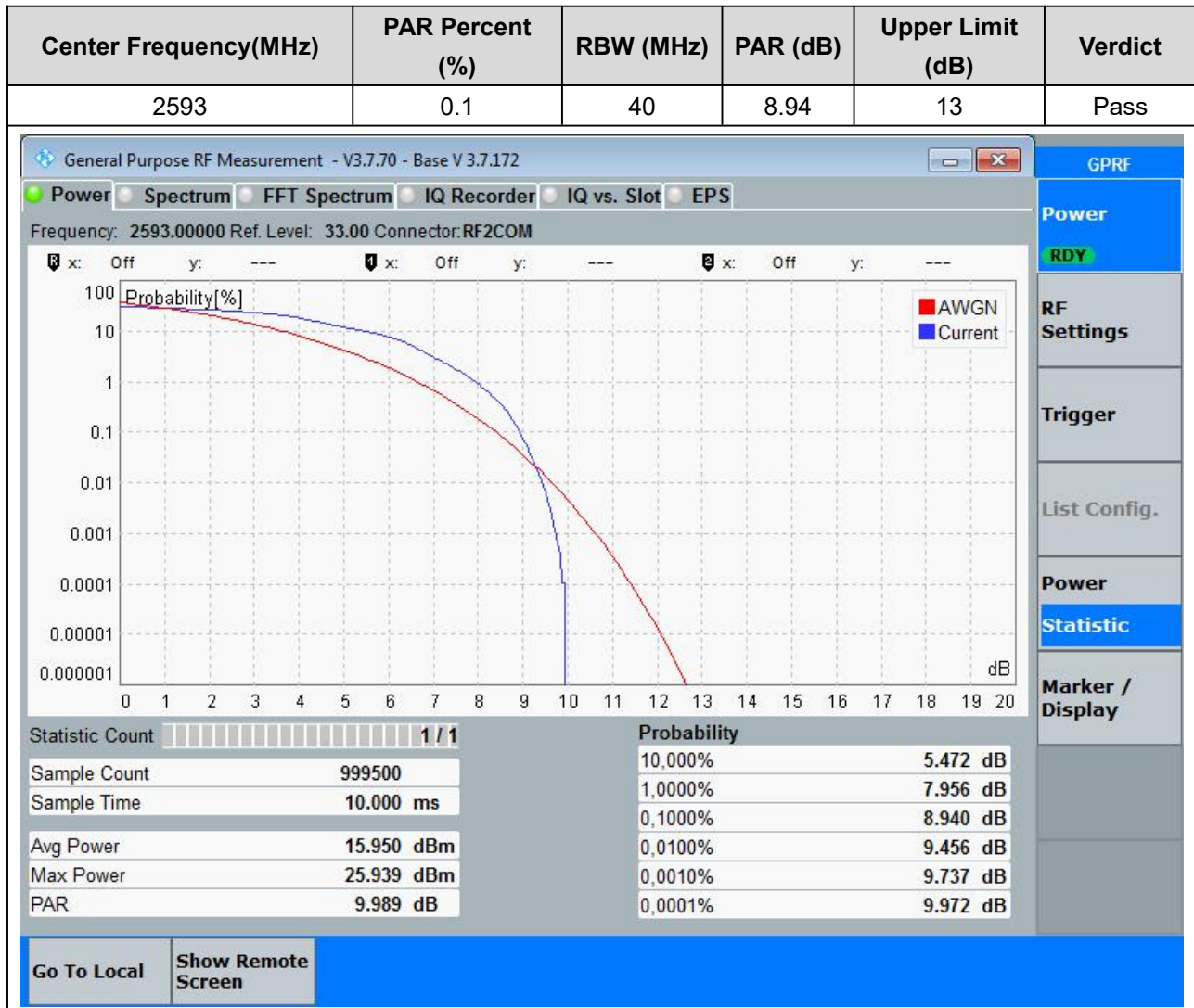


**4.15 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:15,
Channel:40521|40719, Bandwidth:20|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
2593	0.1	40	8.17	13	Pass

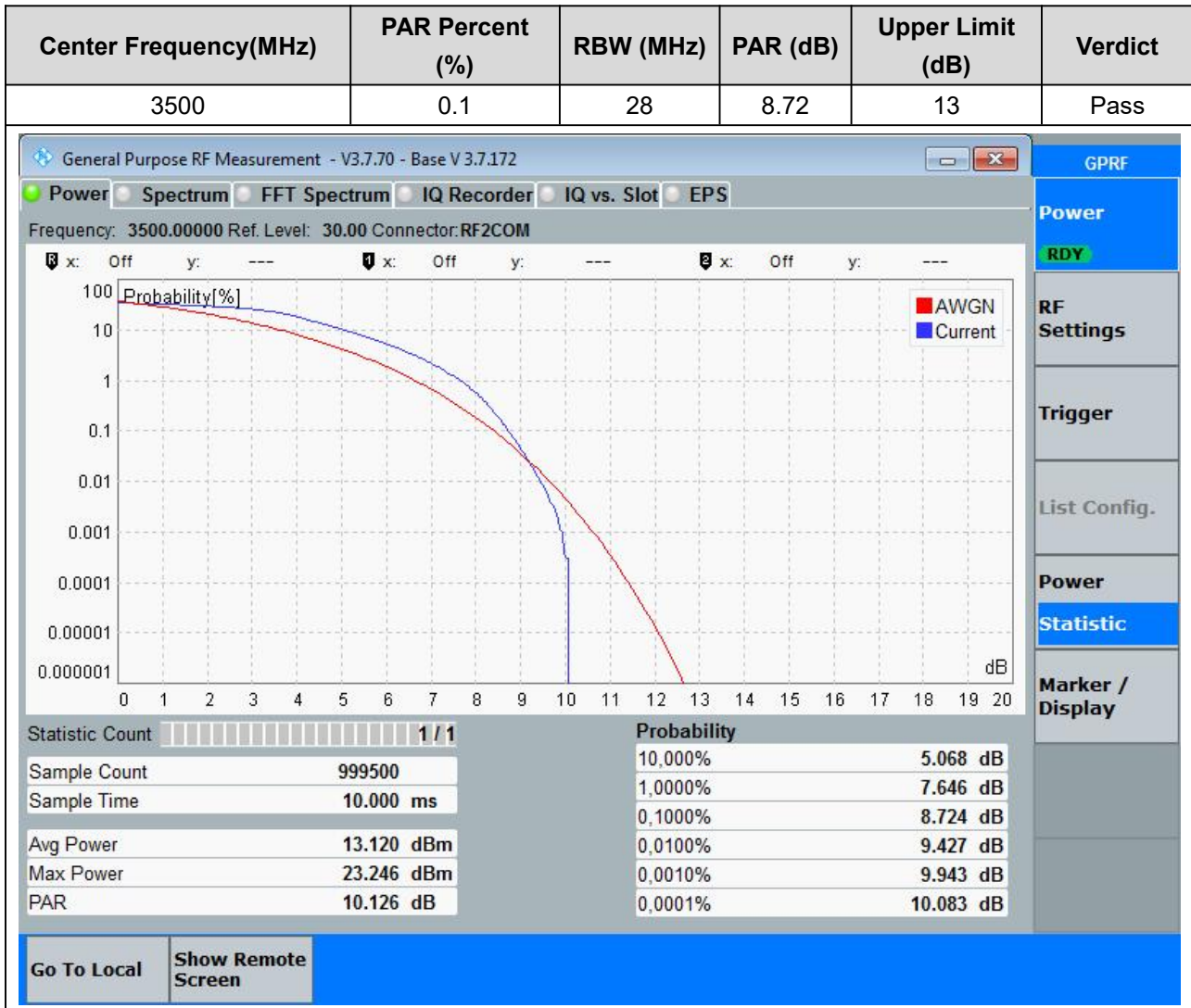


**4.16 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:16,
Channel:40521|40719, Bandwidth:20|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

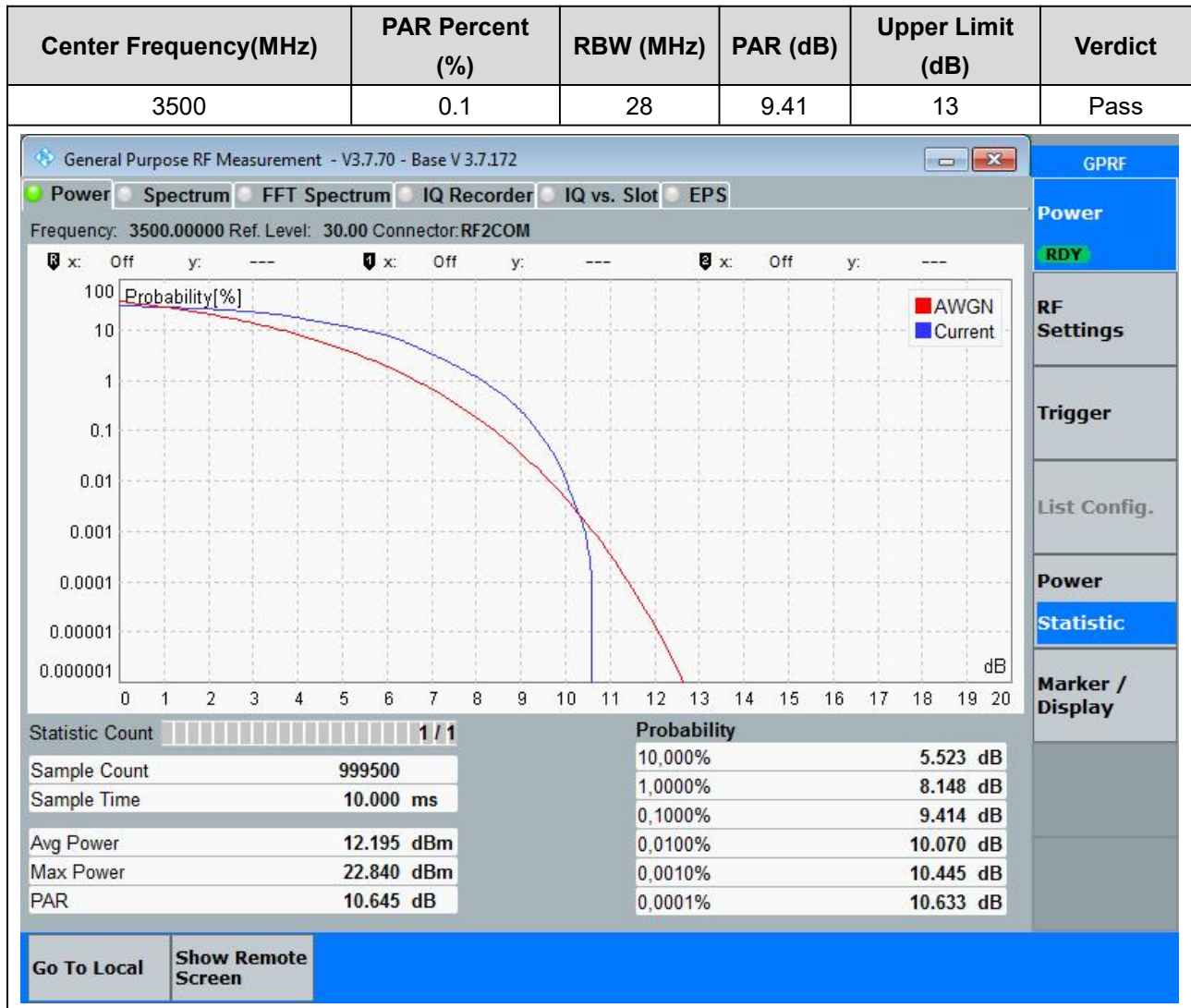


5. CA_42C(3450-3550)

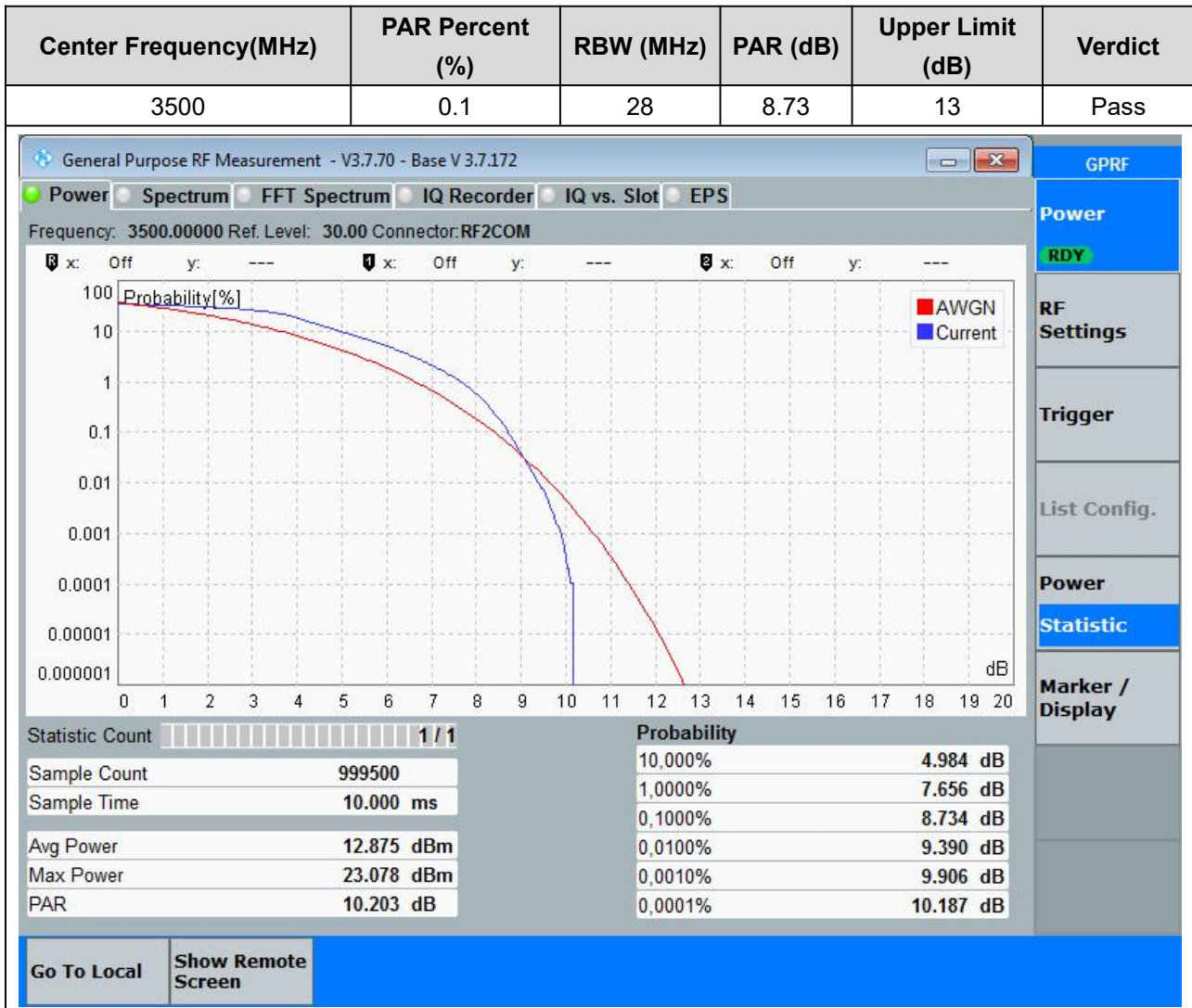
5.1 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1,
Channel:42494|42611, Bandwidth:5|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)



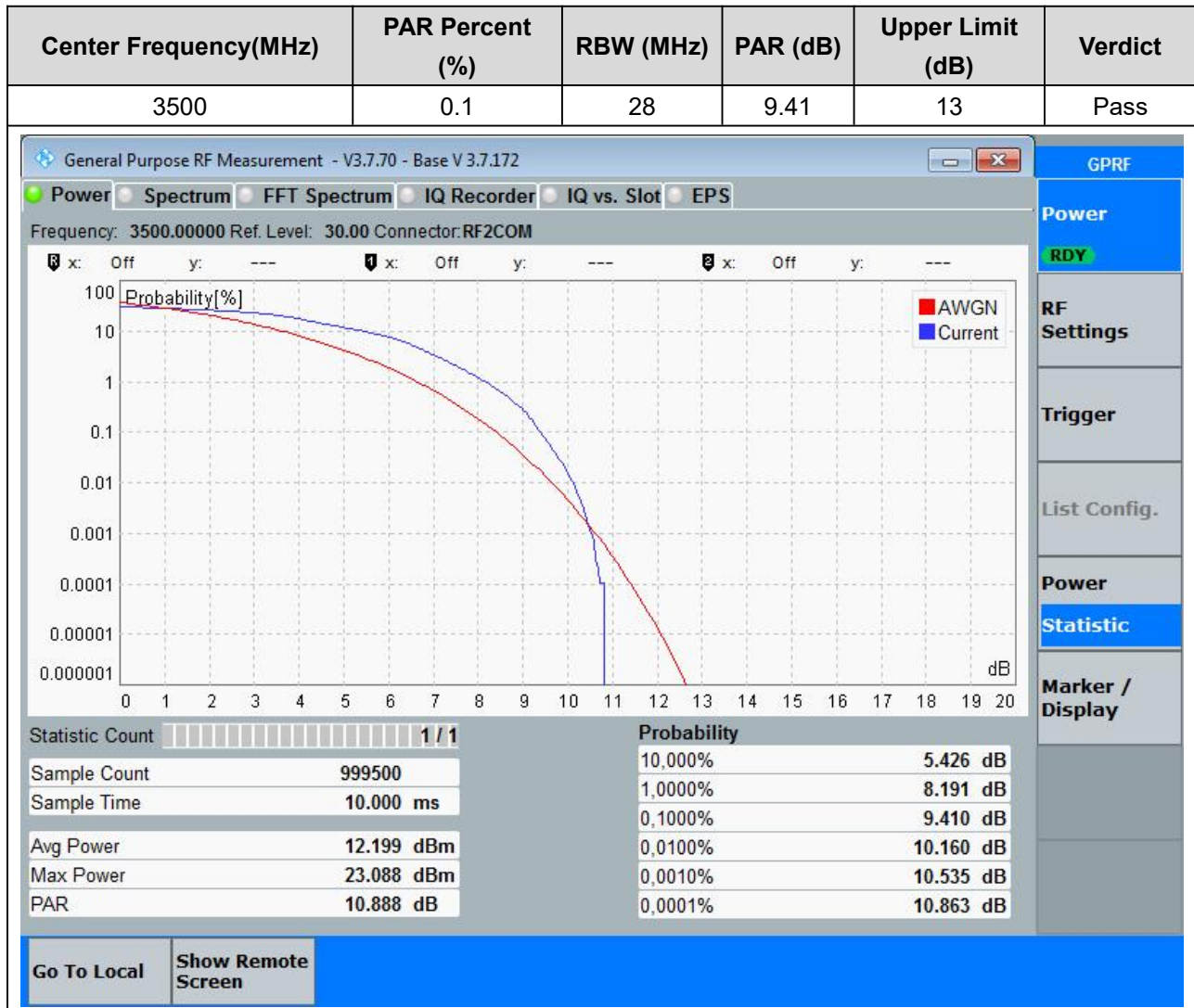
5.2 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2,
Channel:42494|42611, Bandwidth:5|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)



**5.3 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3,
Channel:42569|42686, Bandwidth:20|5MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

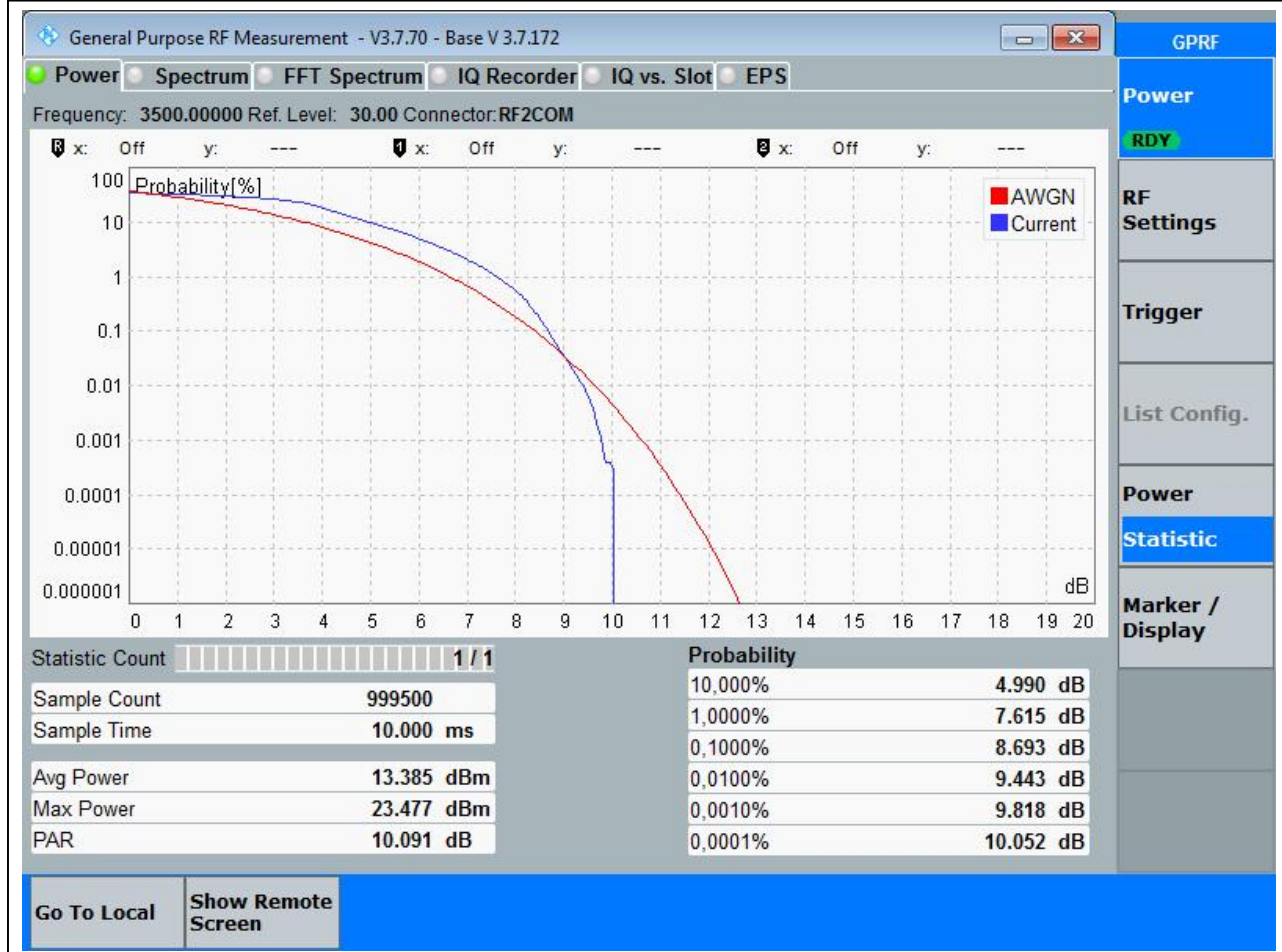


**5.4 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4,
Channel:42569|42686, Bandwidth:20|5MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

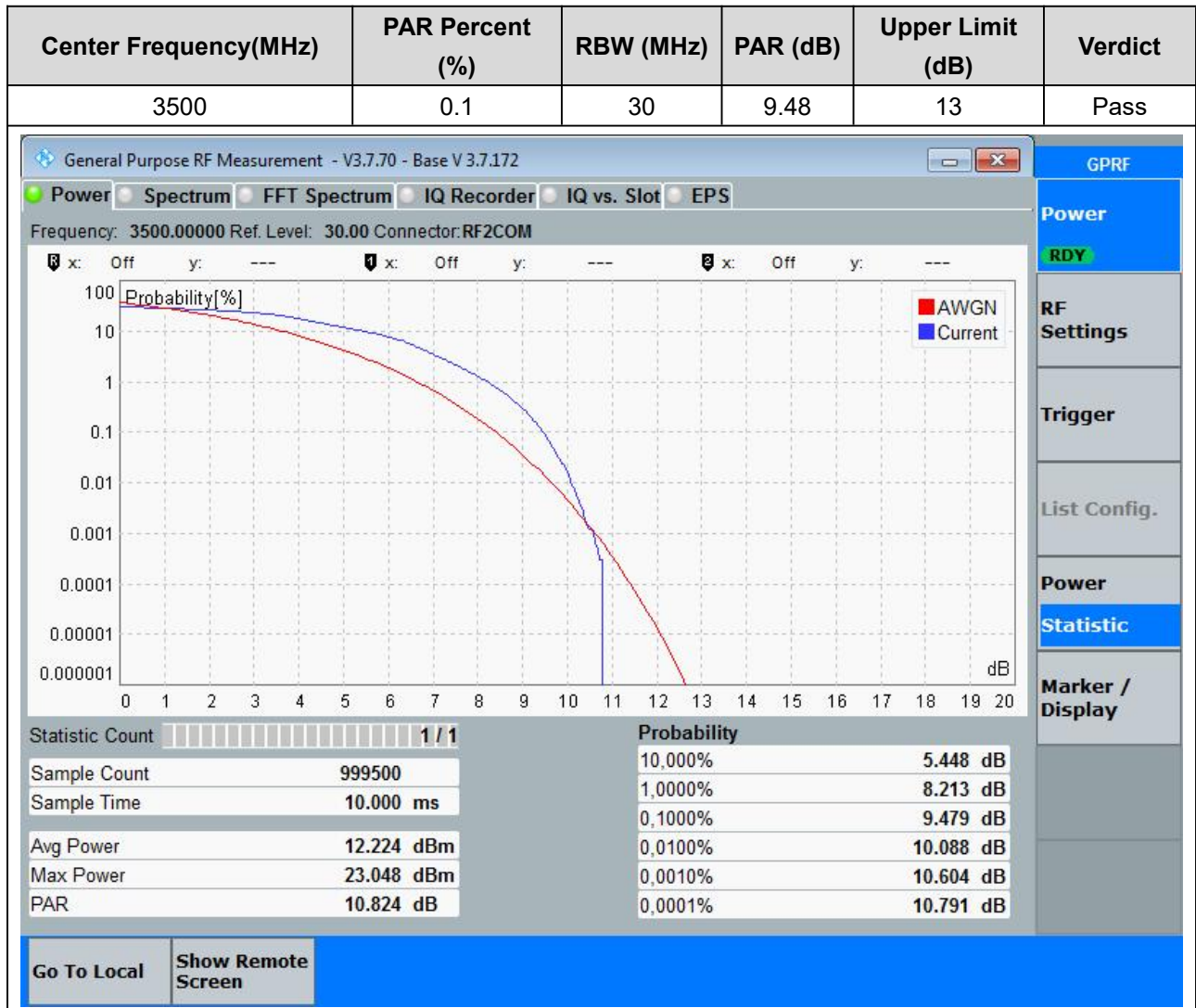


**5.5 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5,
Channel:42493|42637, Bandwidth:10|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3500	0.1	30	8.69	13	Pass

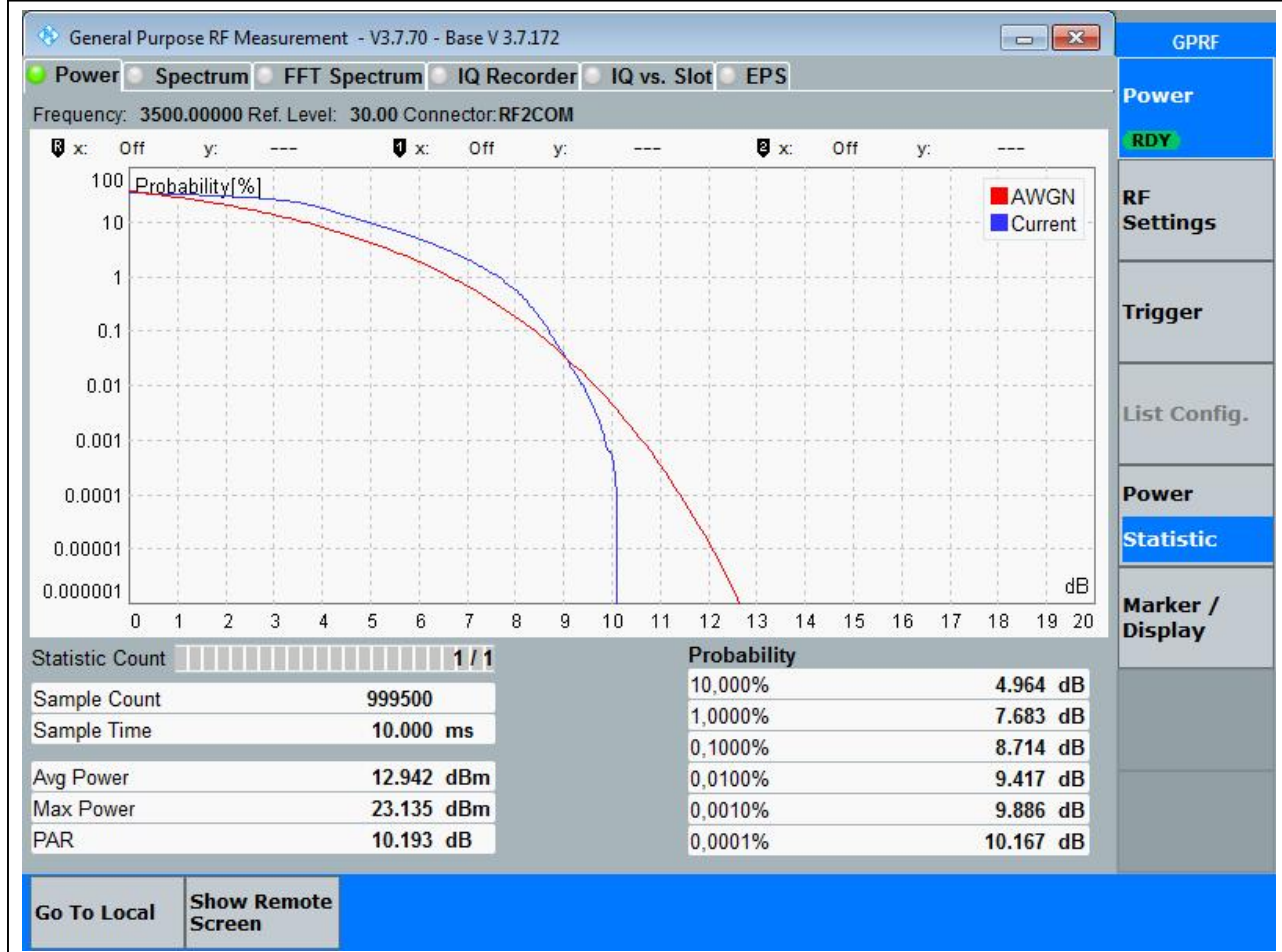


**5.6 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6,
Channel:42493|42637, Bandwidth:10|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

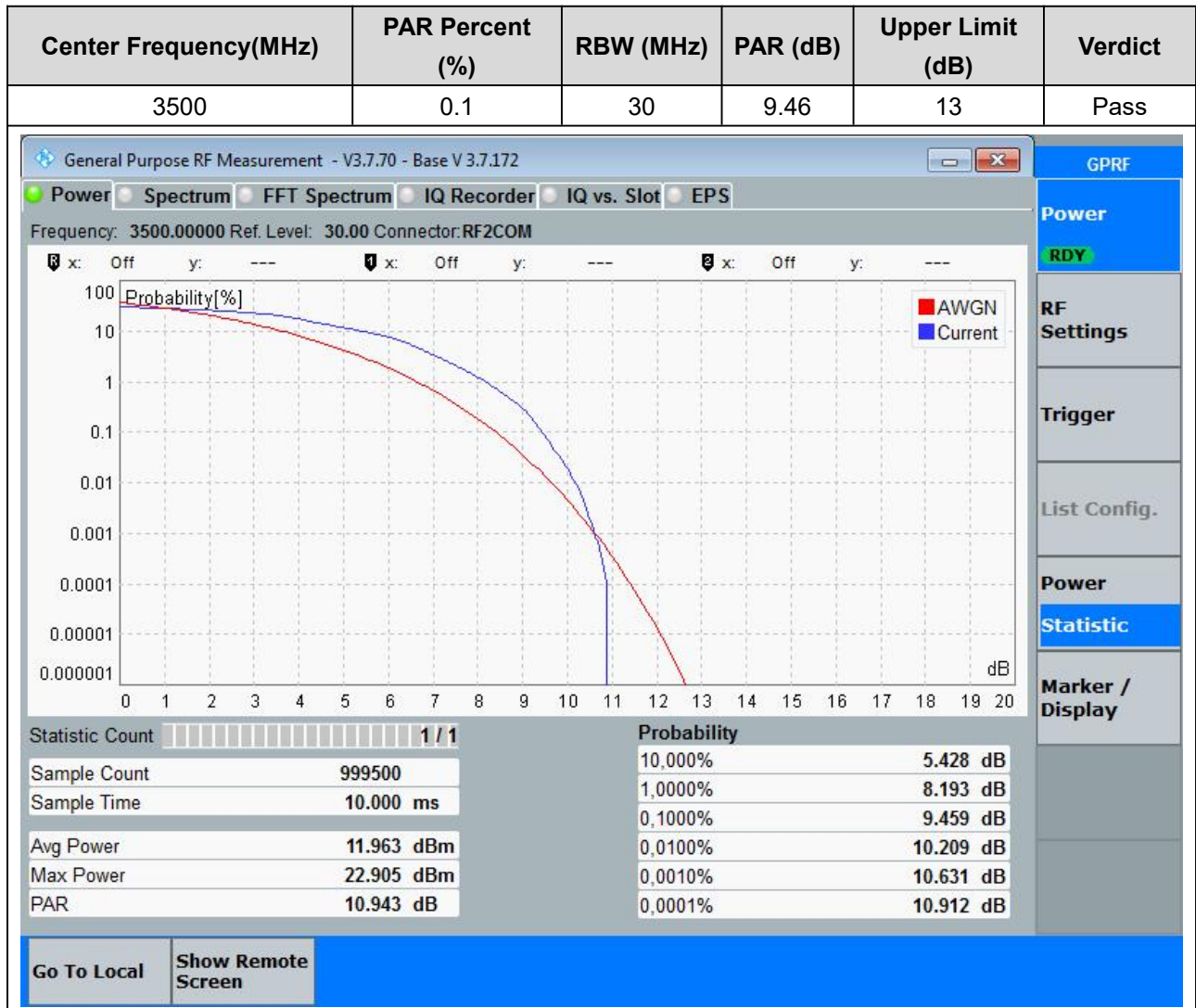


**5.7 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7,
Channel:42543|42687, Bandwidth:20|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

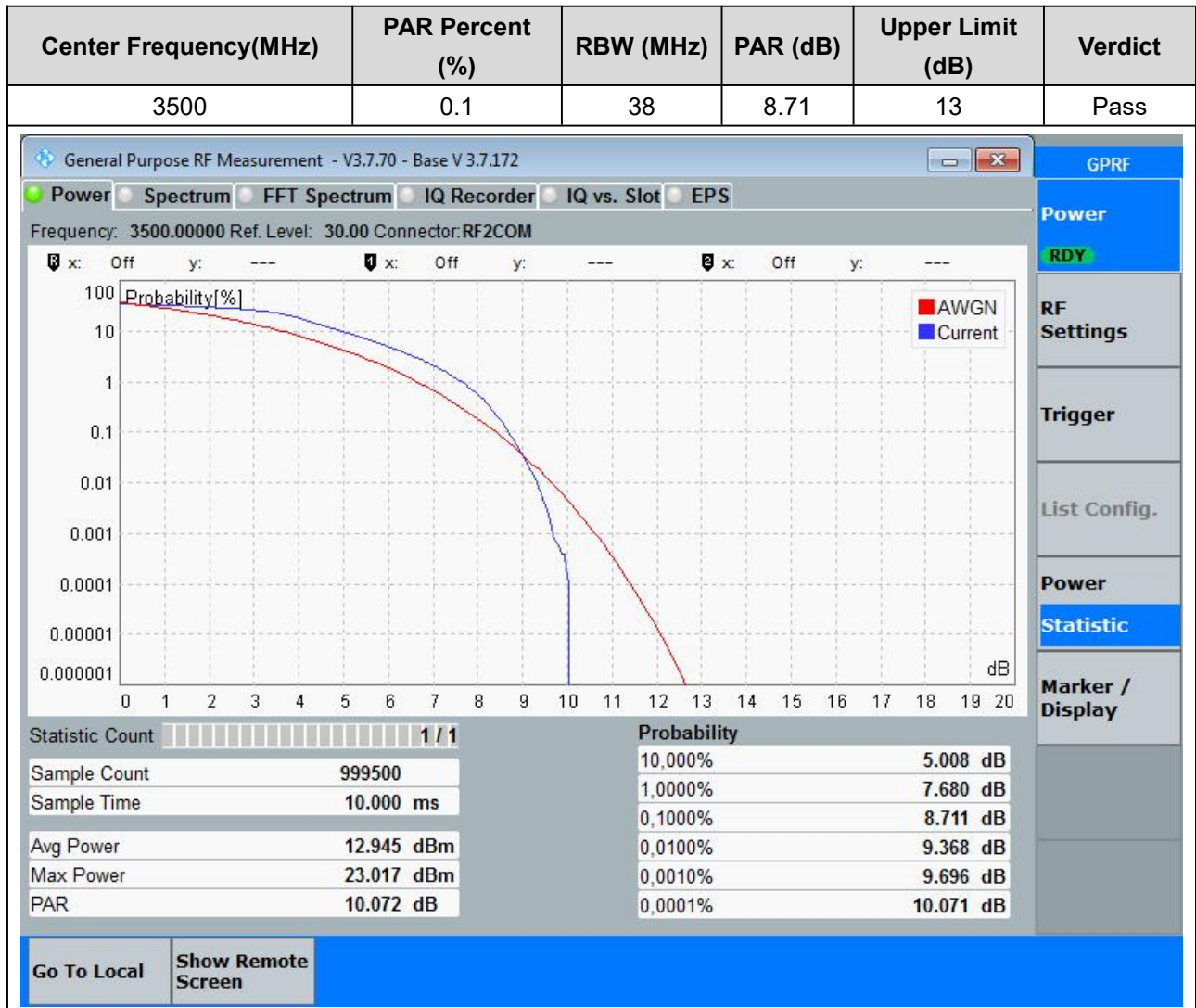
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
3500	0.1	30	8.71	13	Pass



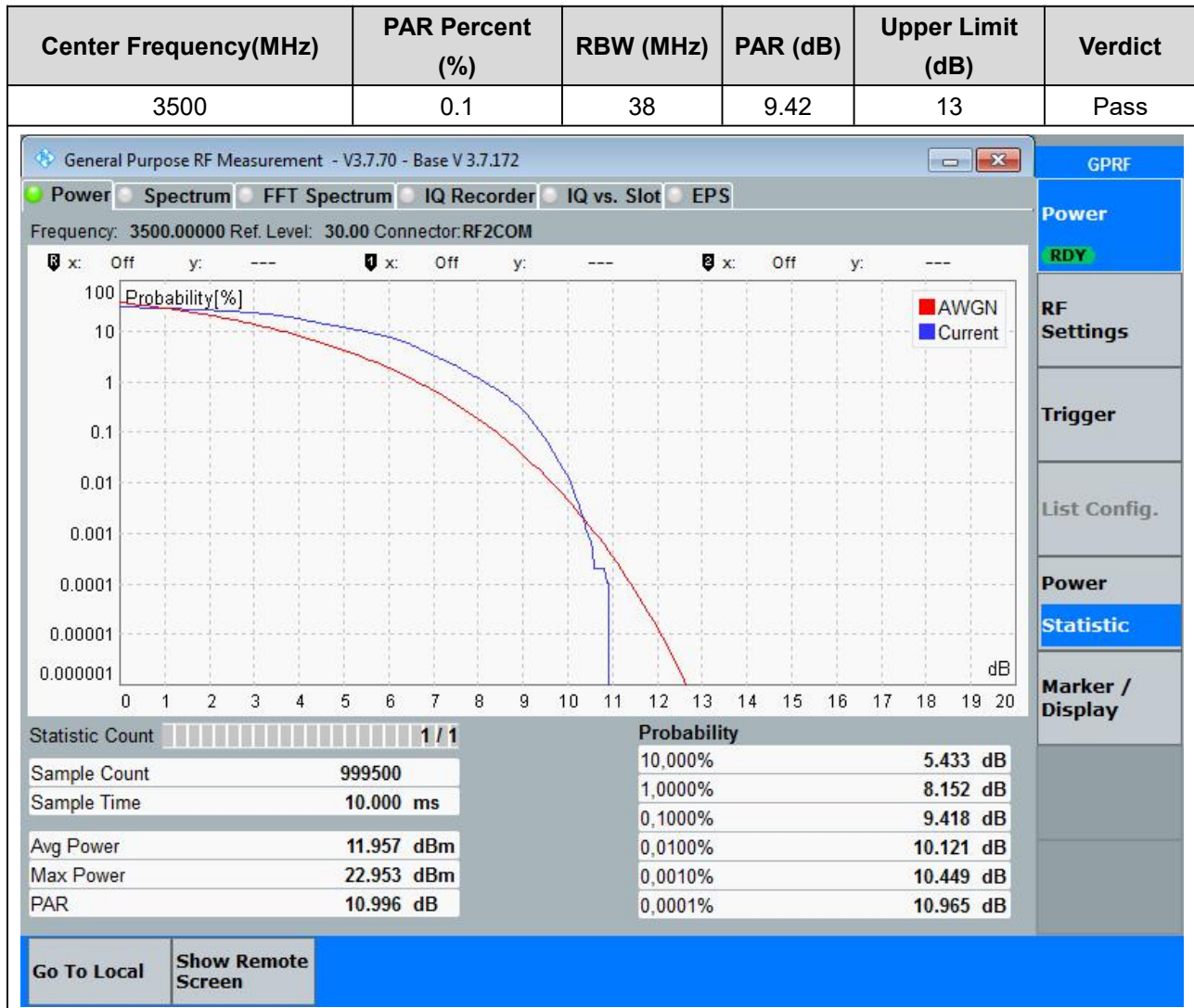
**5.8 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8,
Channel:42543|42687, Bandwidth:20|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



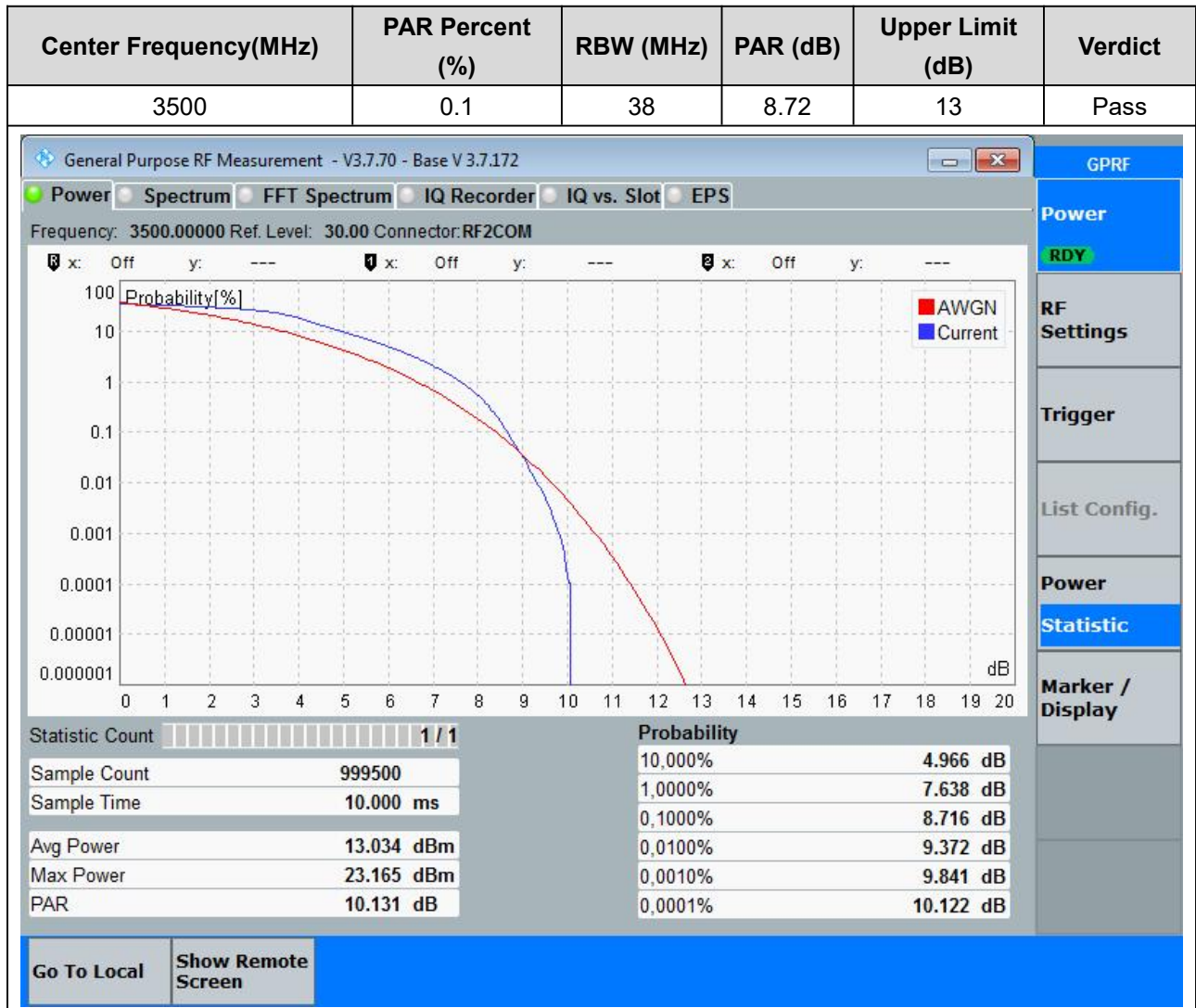
**5.9 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9,
Channel:42492|42663, Bandwidth:15|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



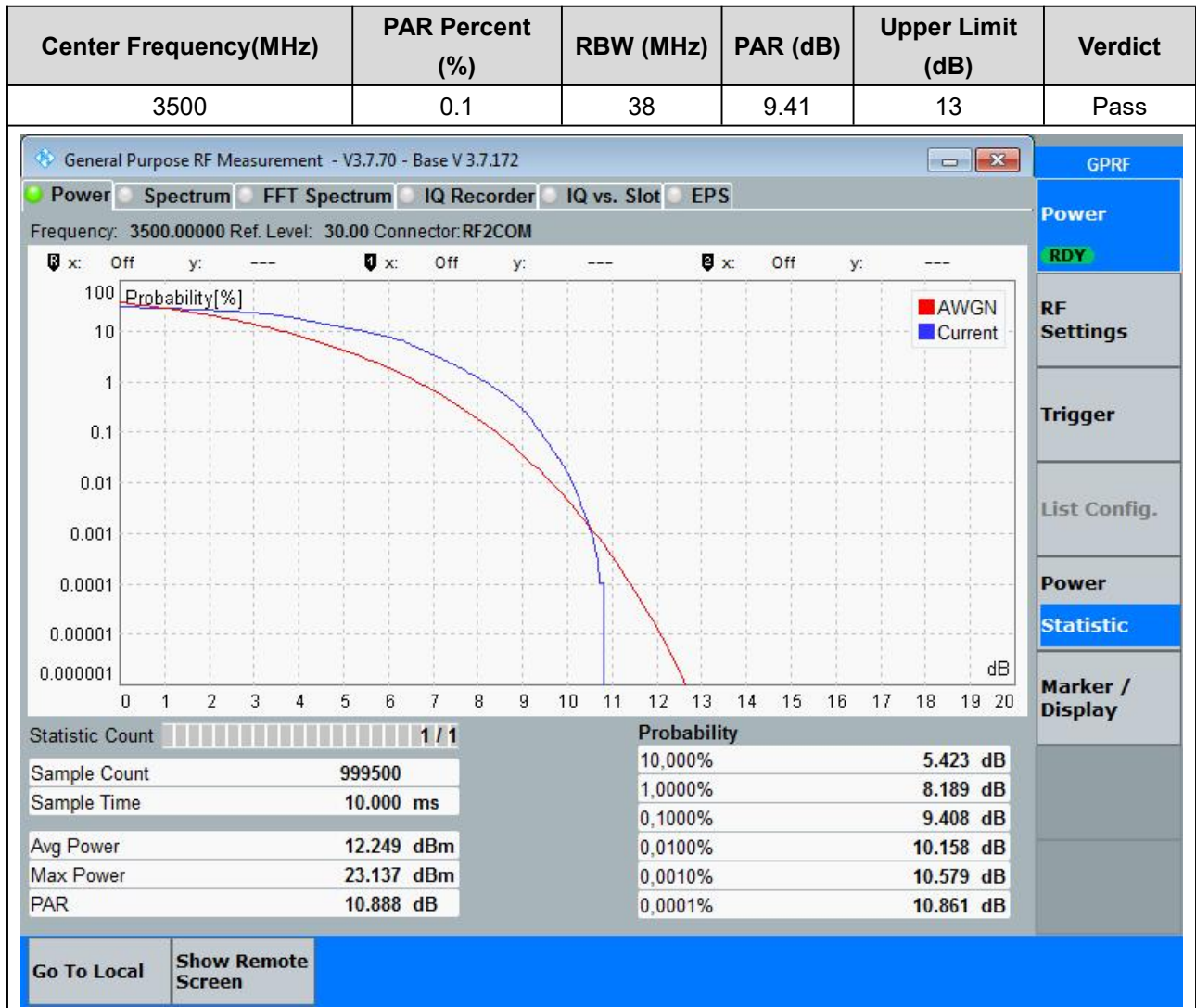
**5.10 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10,
Channel:42492|42663, Bandwidth:15|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



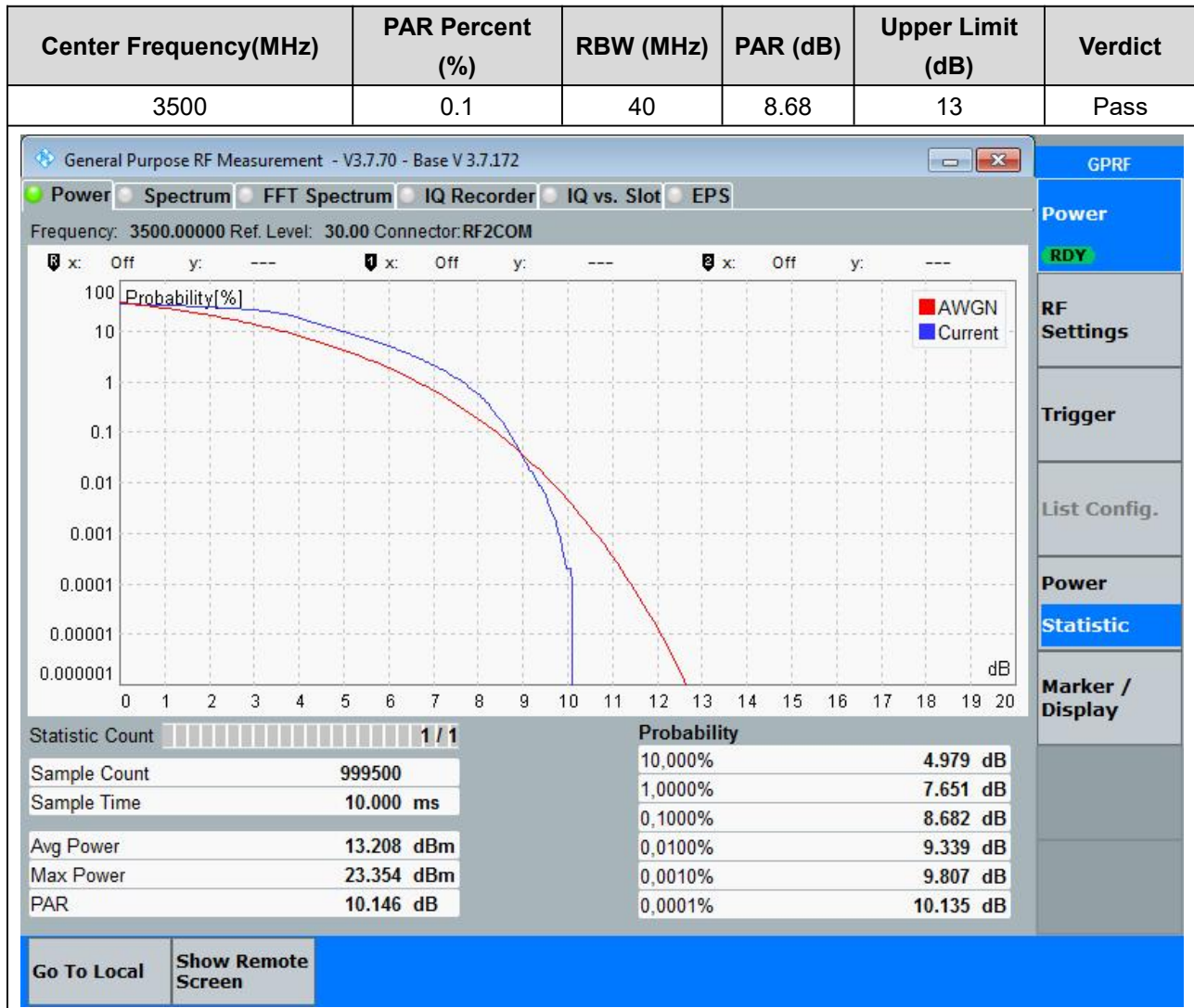
**5.11 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11,
Channel:42517|42688, Bandwidth:20|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



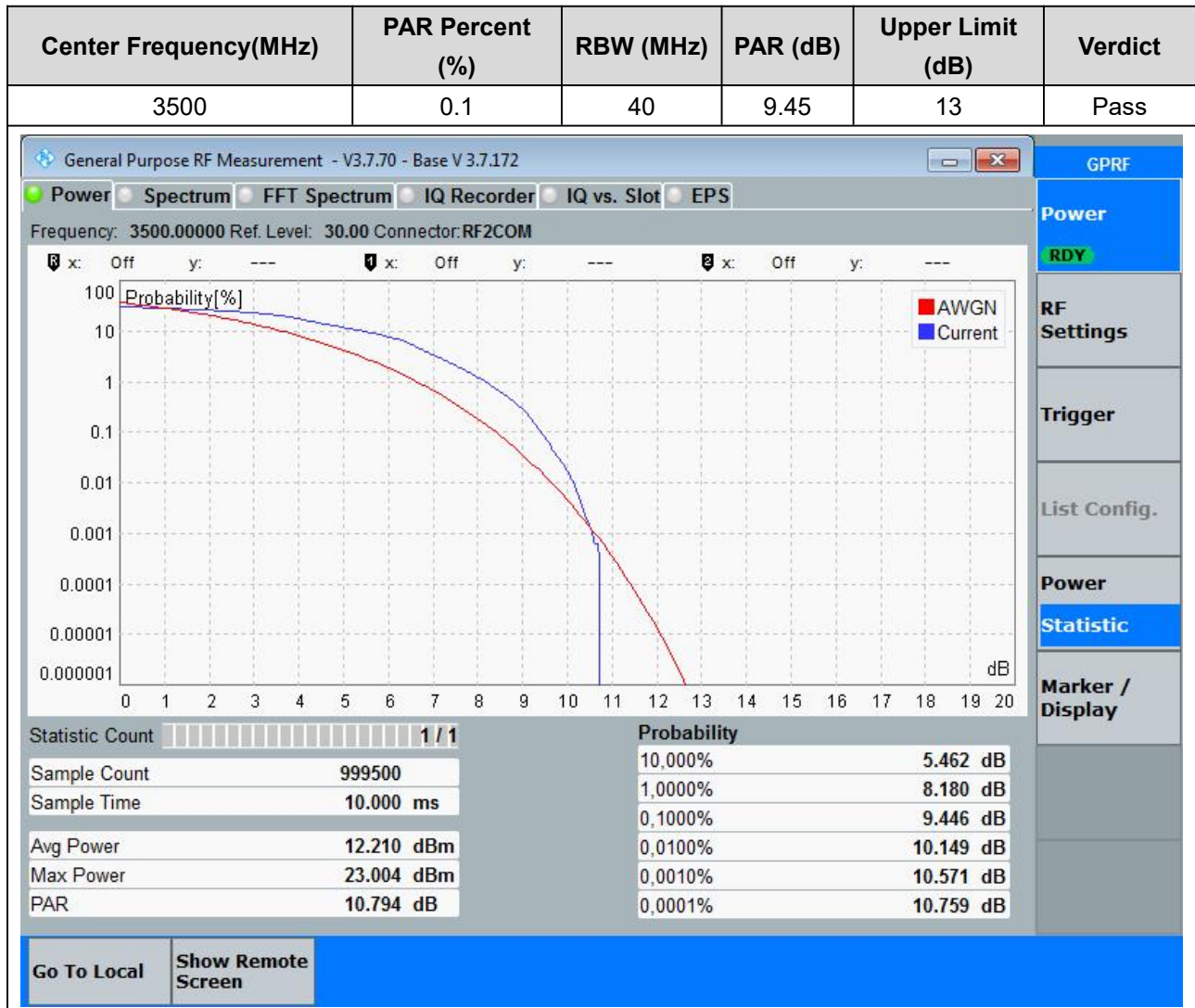
**5.12 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12,
Channel:42517|42688, Bandwidth:20|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**5.13 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:13,
Channel:42491|42689, Bandwidth:20|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

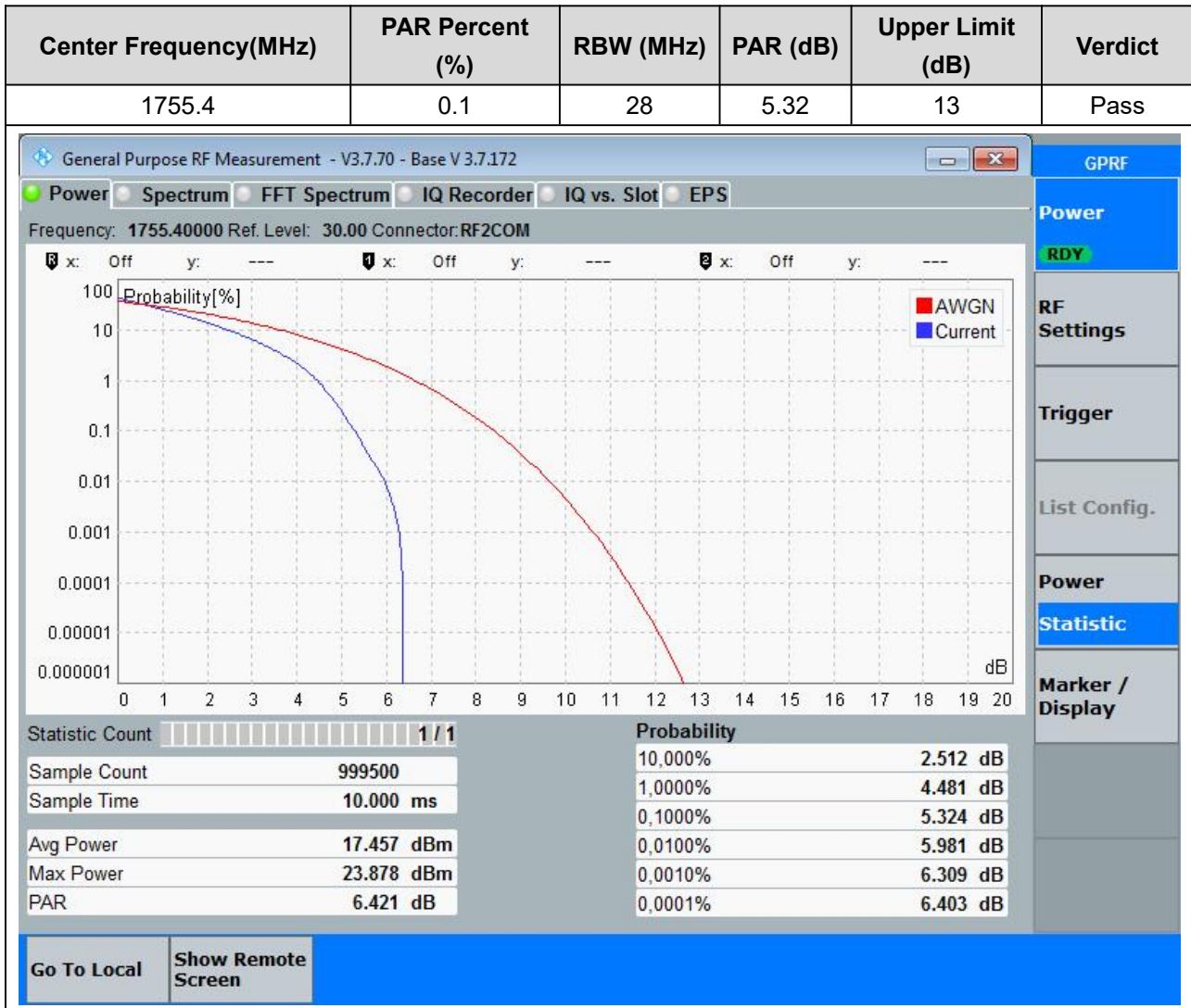


**5.14 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:14,
Channel:42491|42689, Bandwidth:20|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



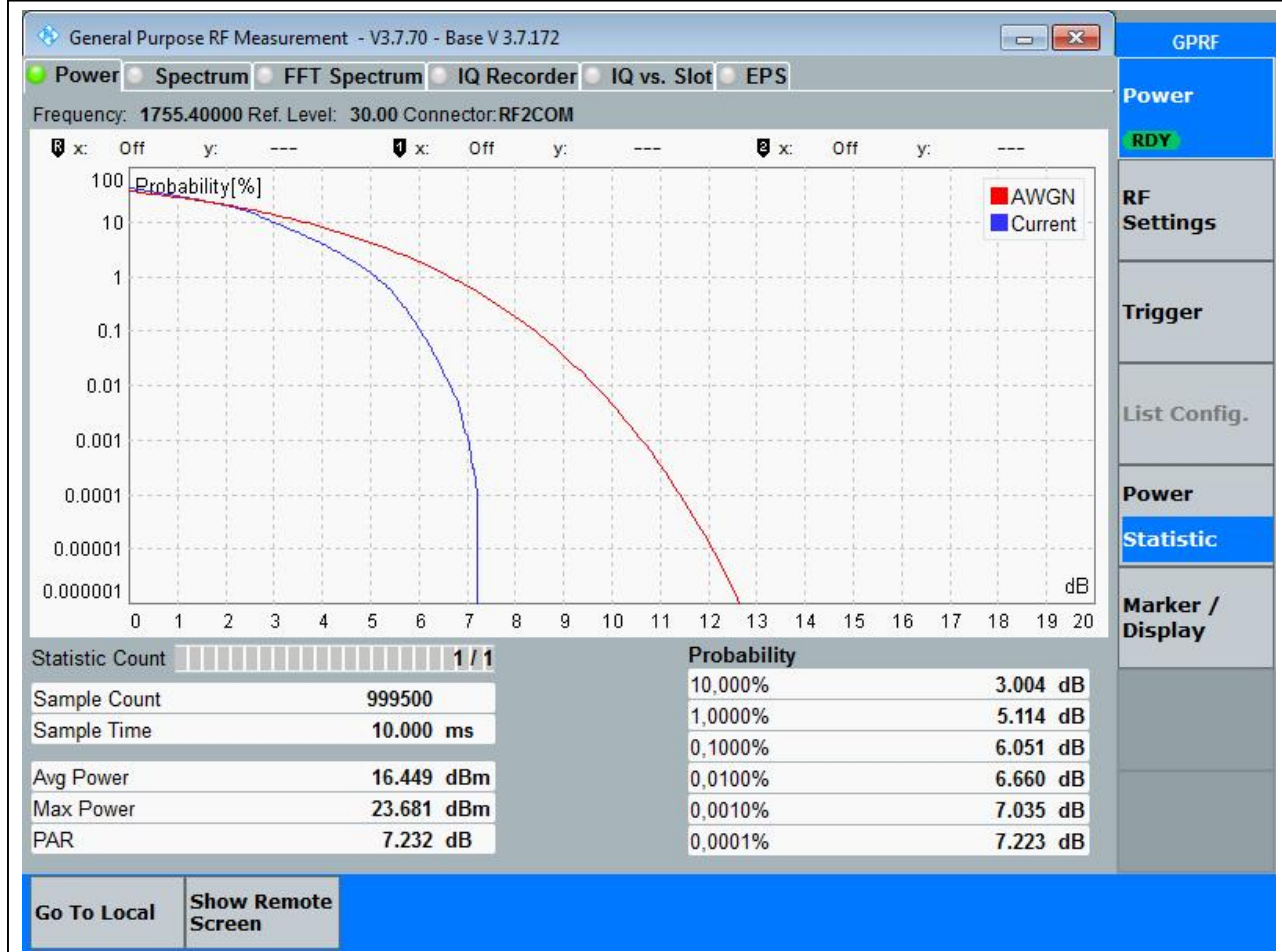
6. CA_66C

**6.1 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:1,
Channel:132330|132447, Bandwidth:5|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



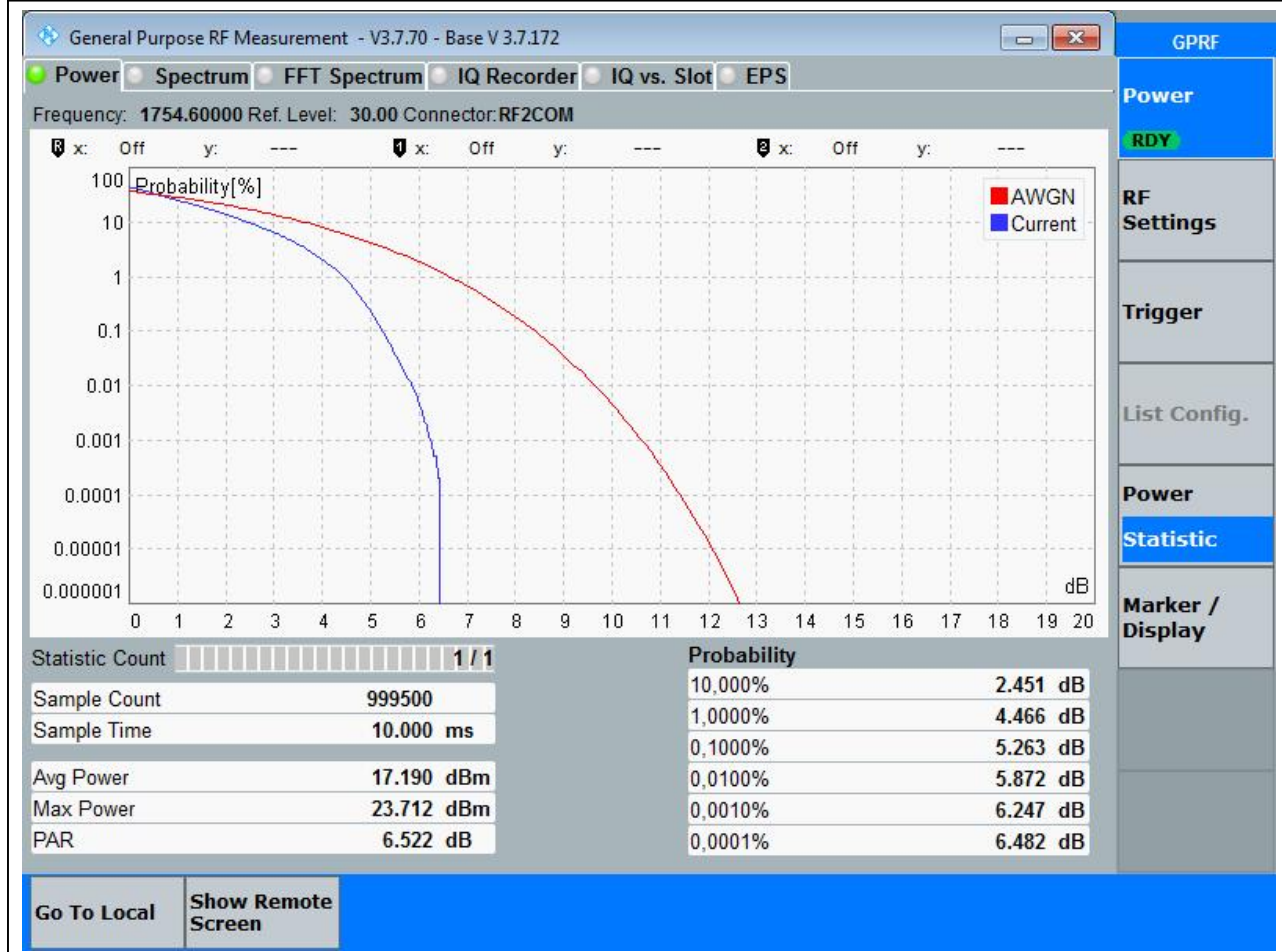
**6.2 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:2,
Channel:132330|132447, Bandwidth:5|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1755.4	0.1	28	6.05	13	Pass



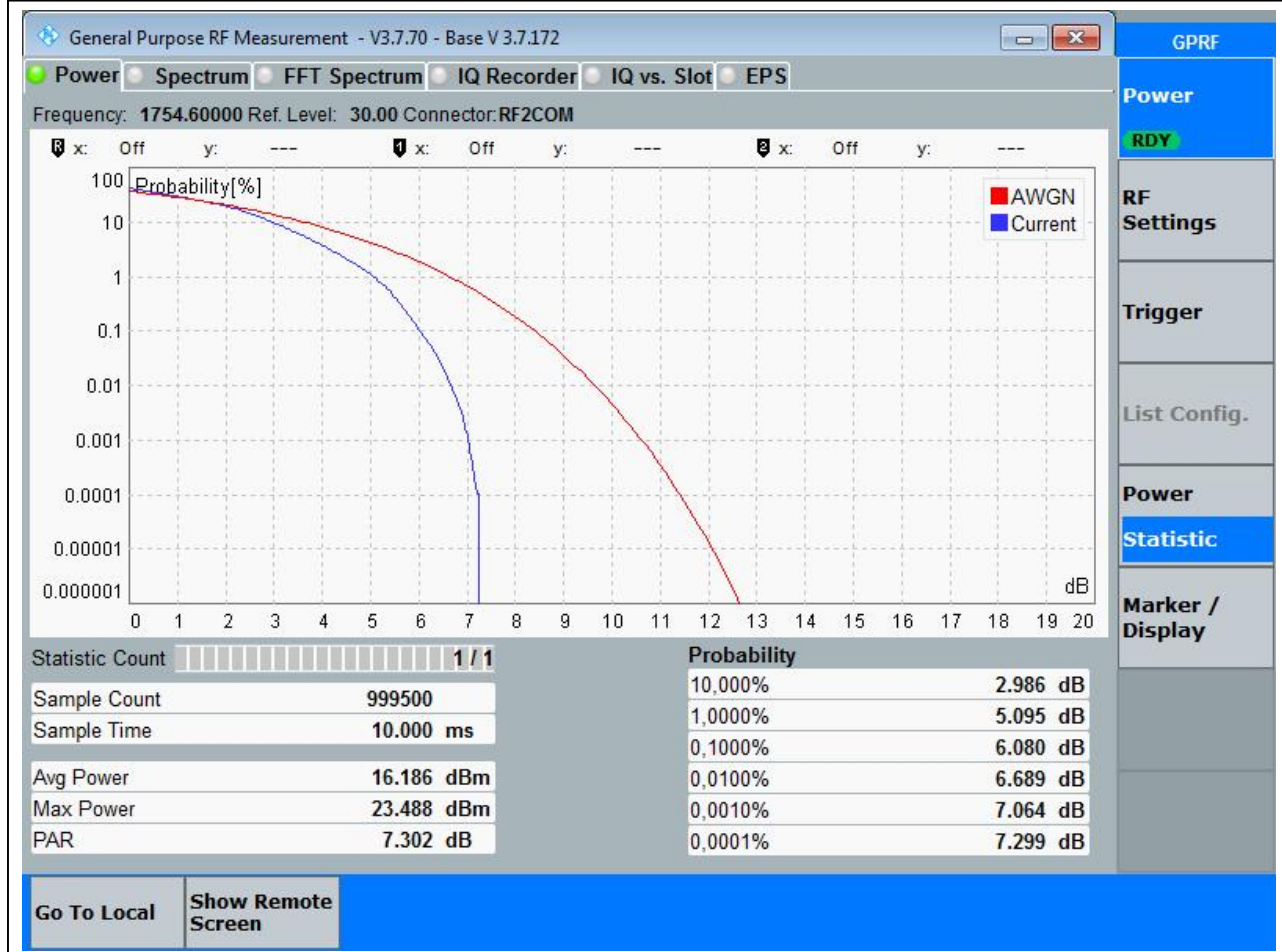
**6.3 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:3,
Channel:132397|132514, Bandwidth:20|5MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1754.6	0.1	28	5.26	13	Pass



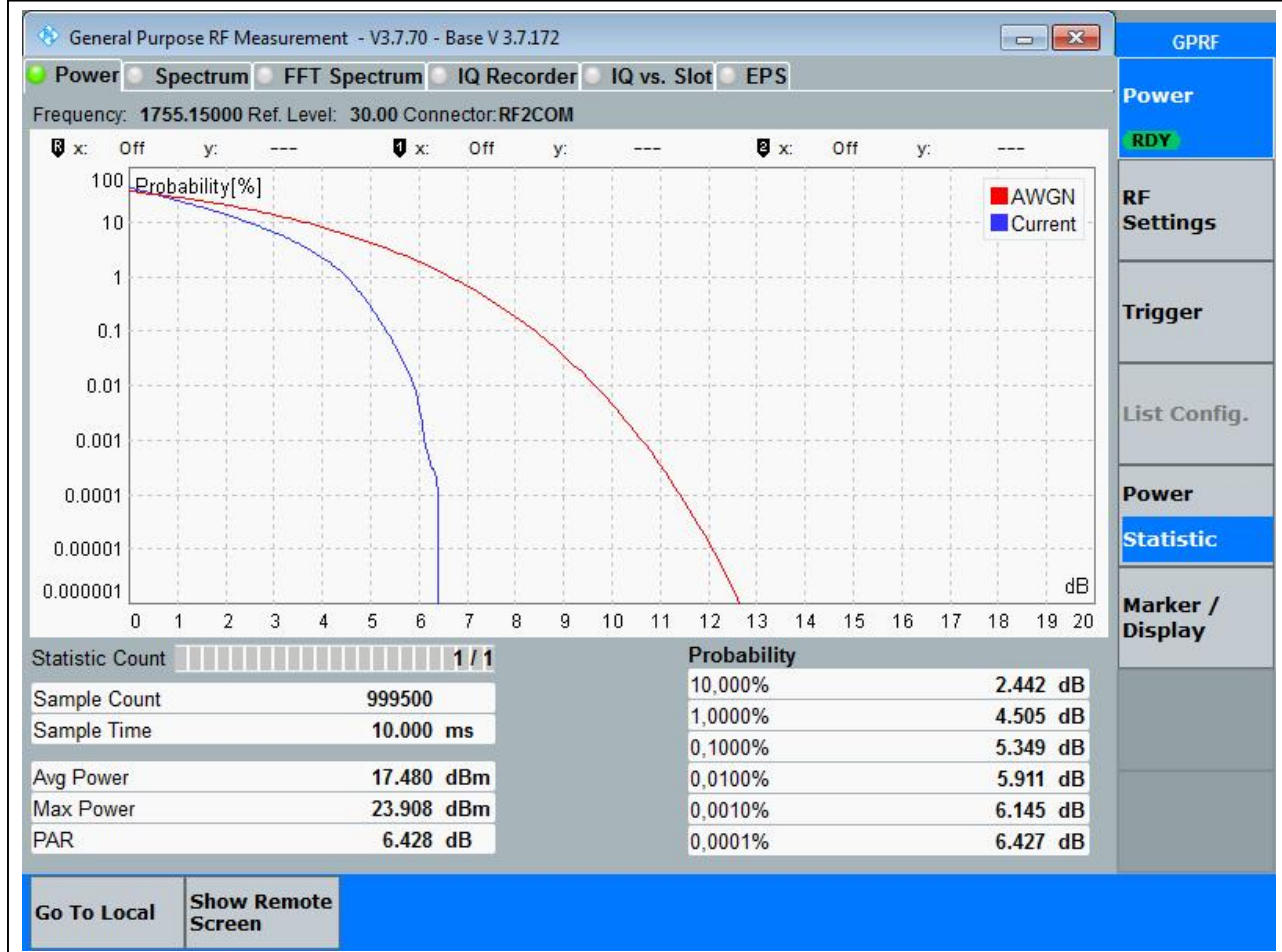
**6.4 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:4,
Channel:132397|132514, Bandwidth:20|5MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1754.6	0.1	28	6.08	13	Pass

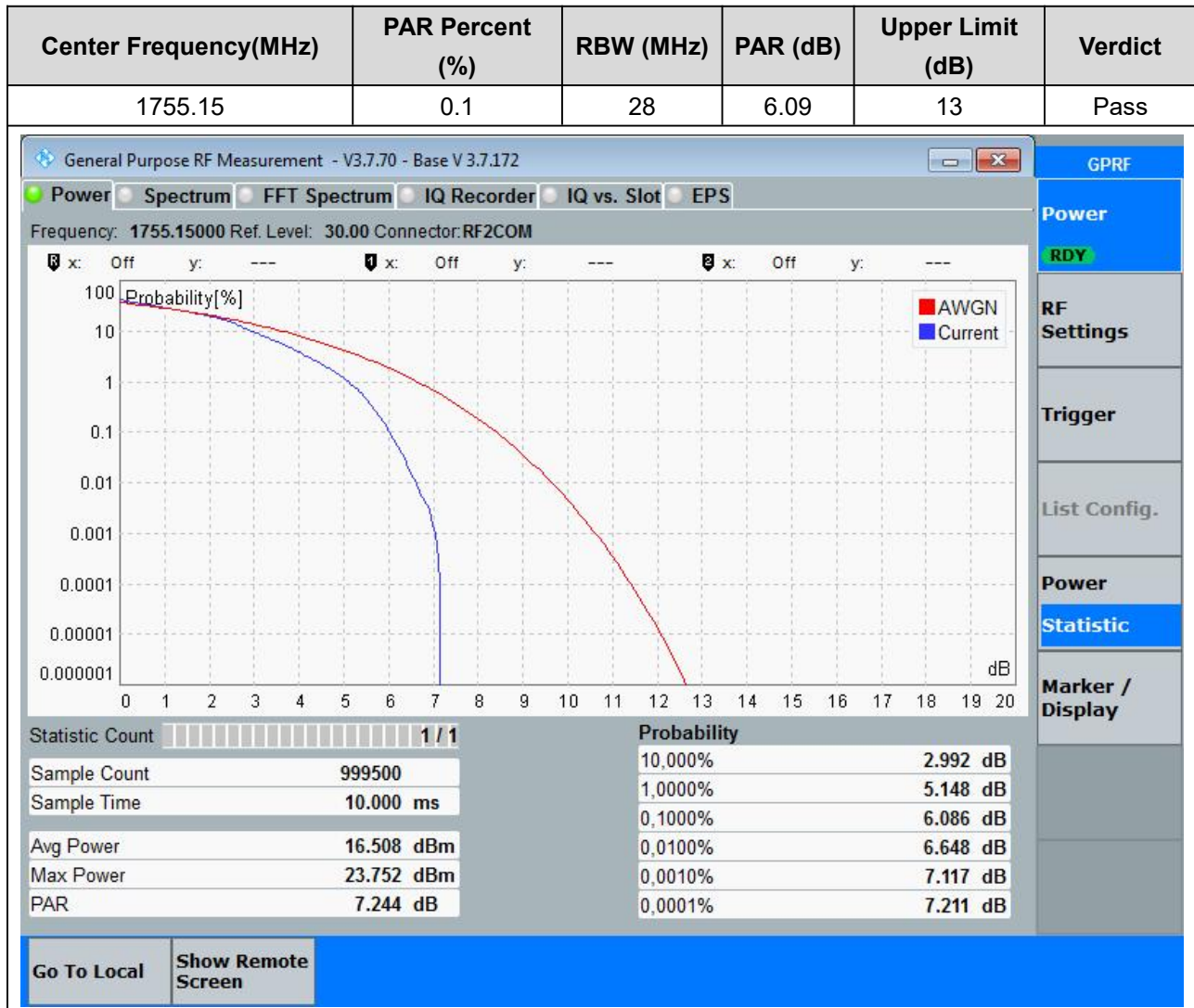


**6.5 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:5,
Channel:132351|132471, Bandwidth:10|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

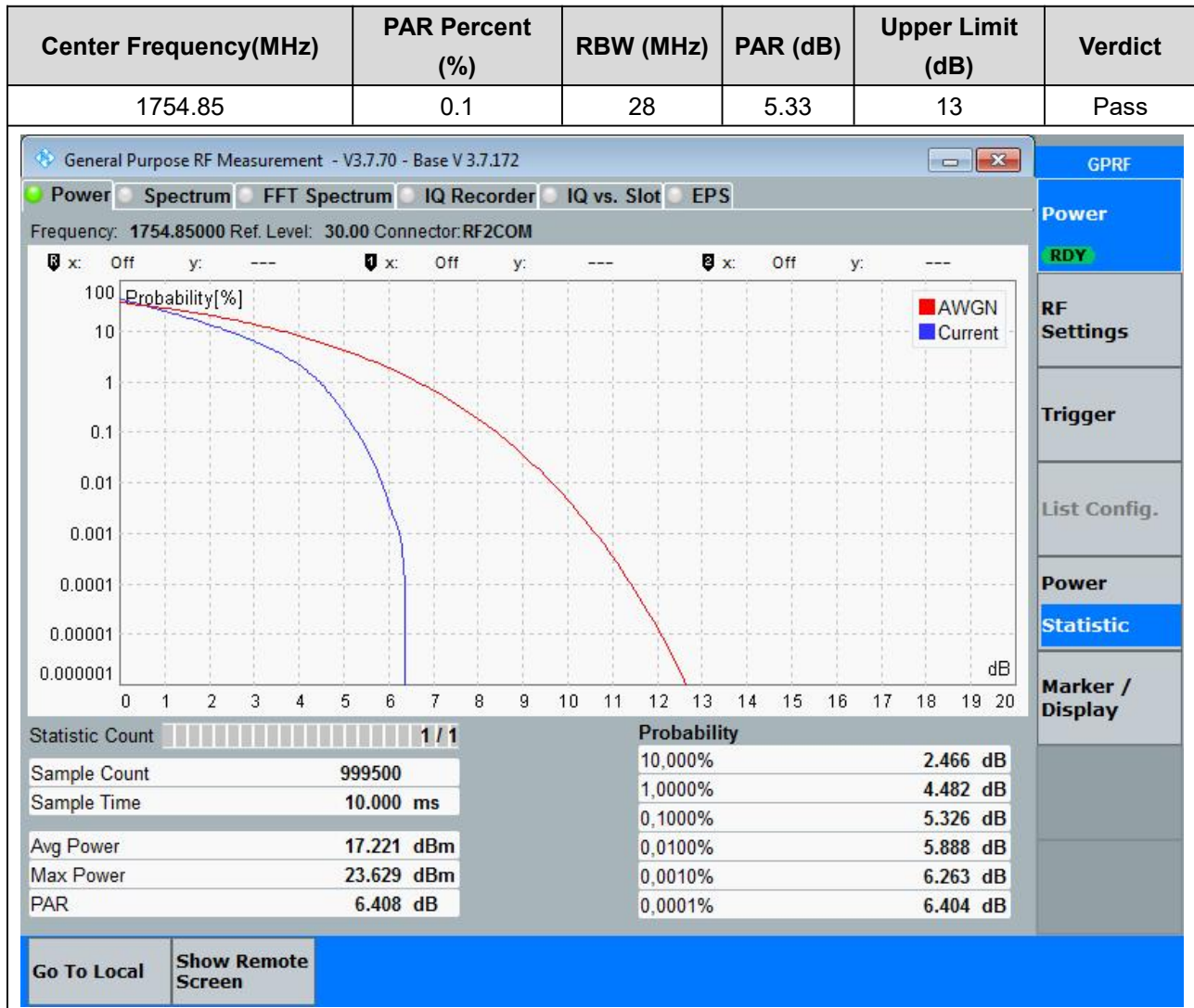
Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1755.15	0.1	28	5.35	13	Pass



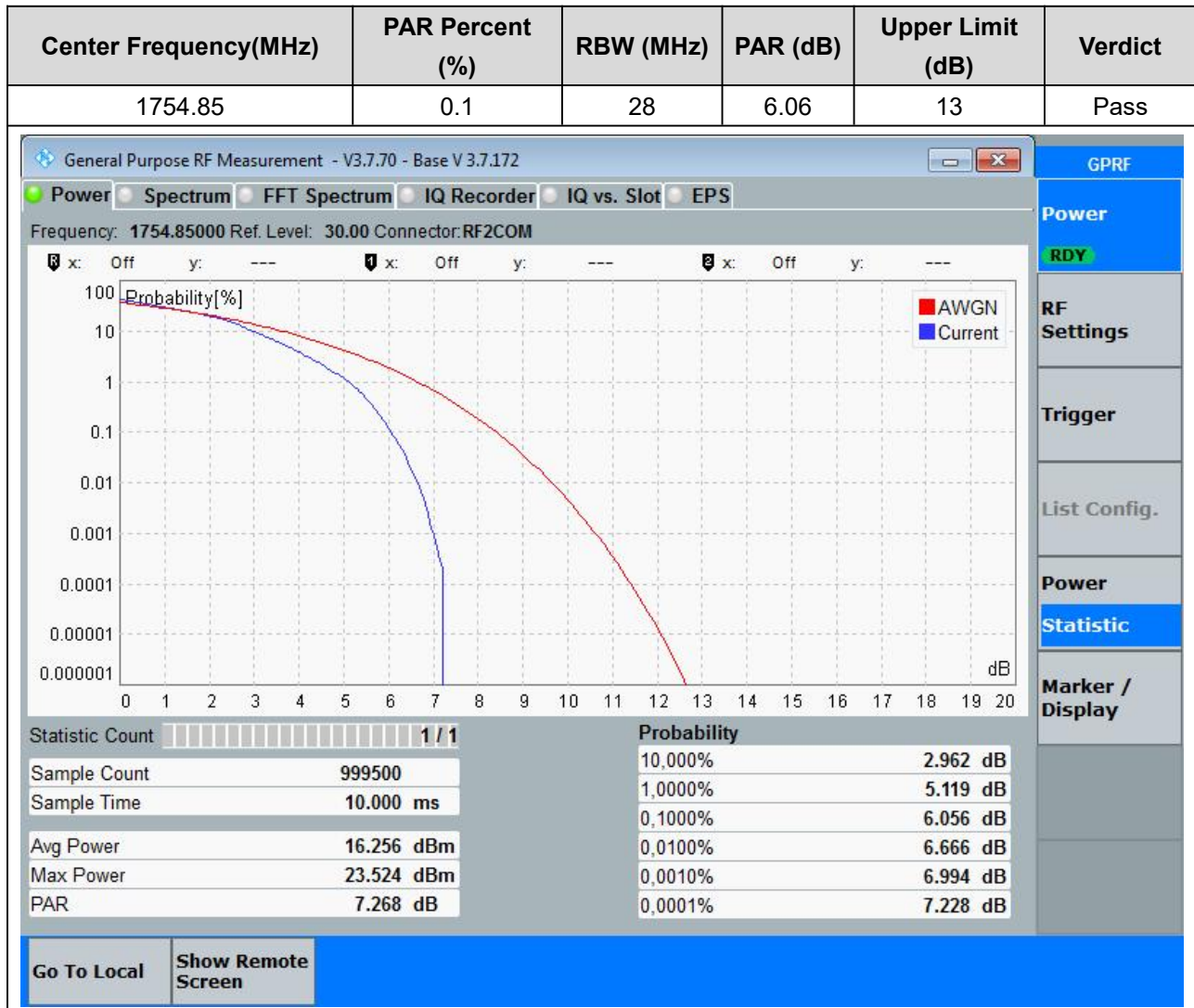
**6.6 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:6,
Channel:132351|132471, Bandwidth:10|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



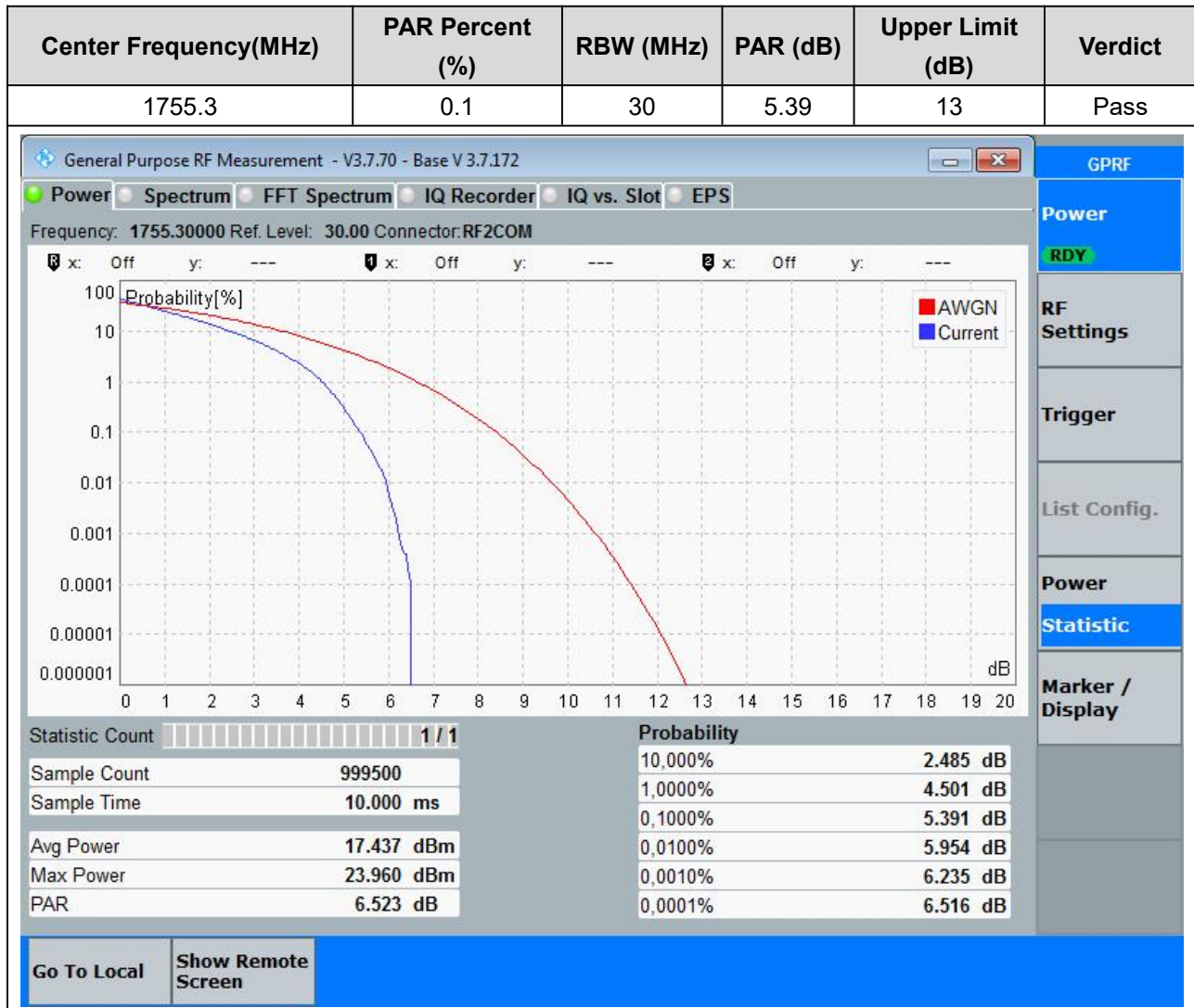
**6.7 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:7,
Channel:132373|132493, Bandwidth:15|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



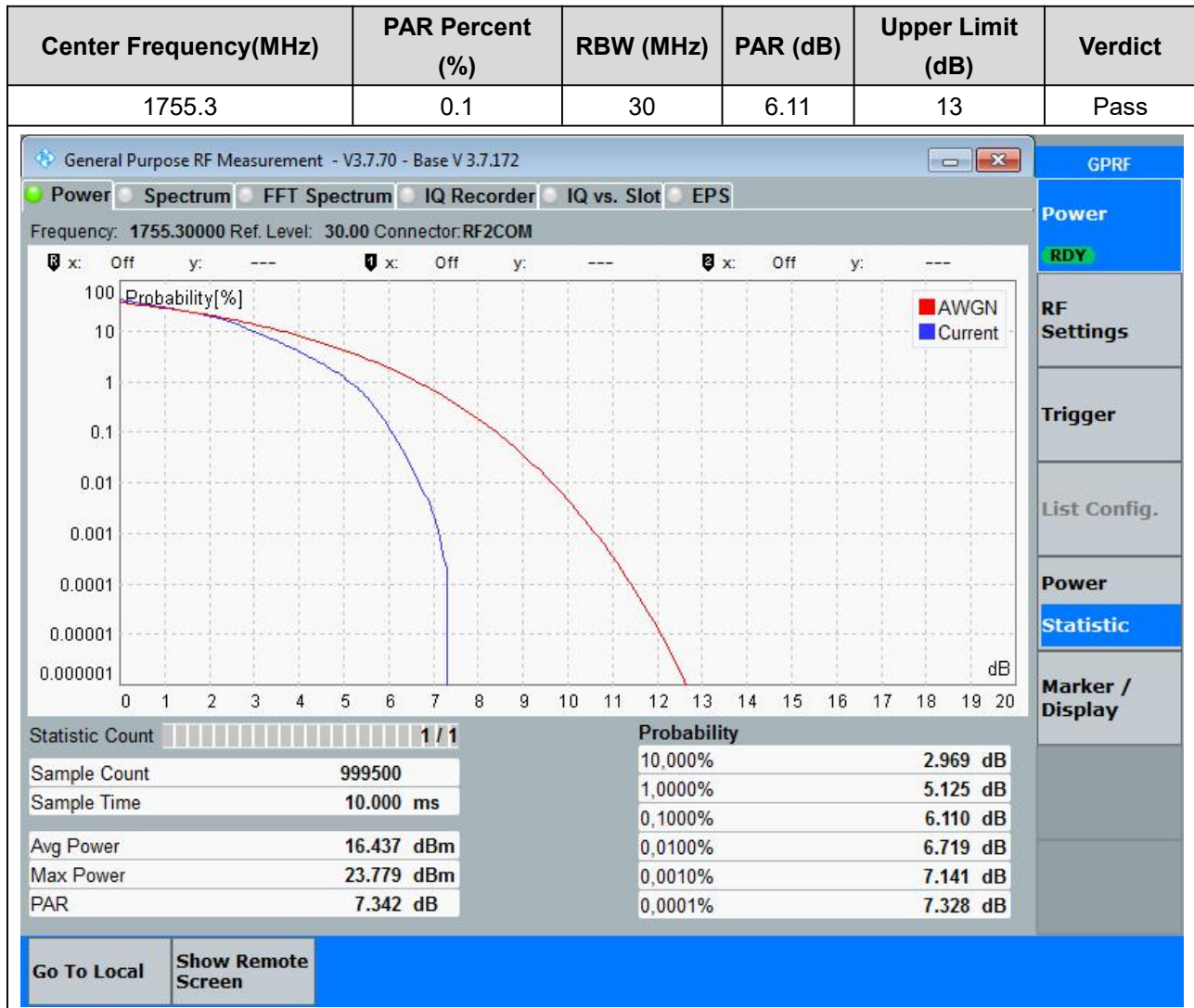
**6.8 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:8,
Channel:132373|132493, Bandwidth:15|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



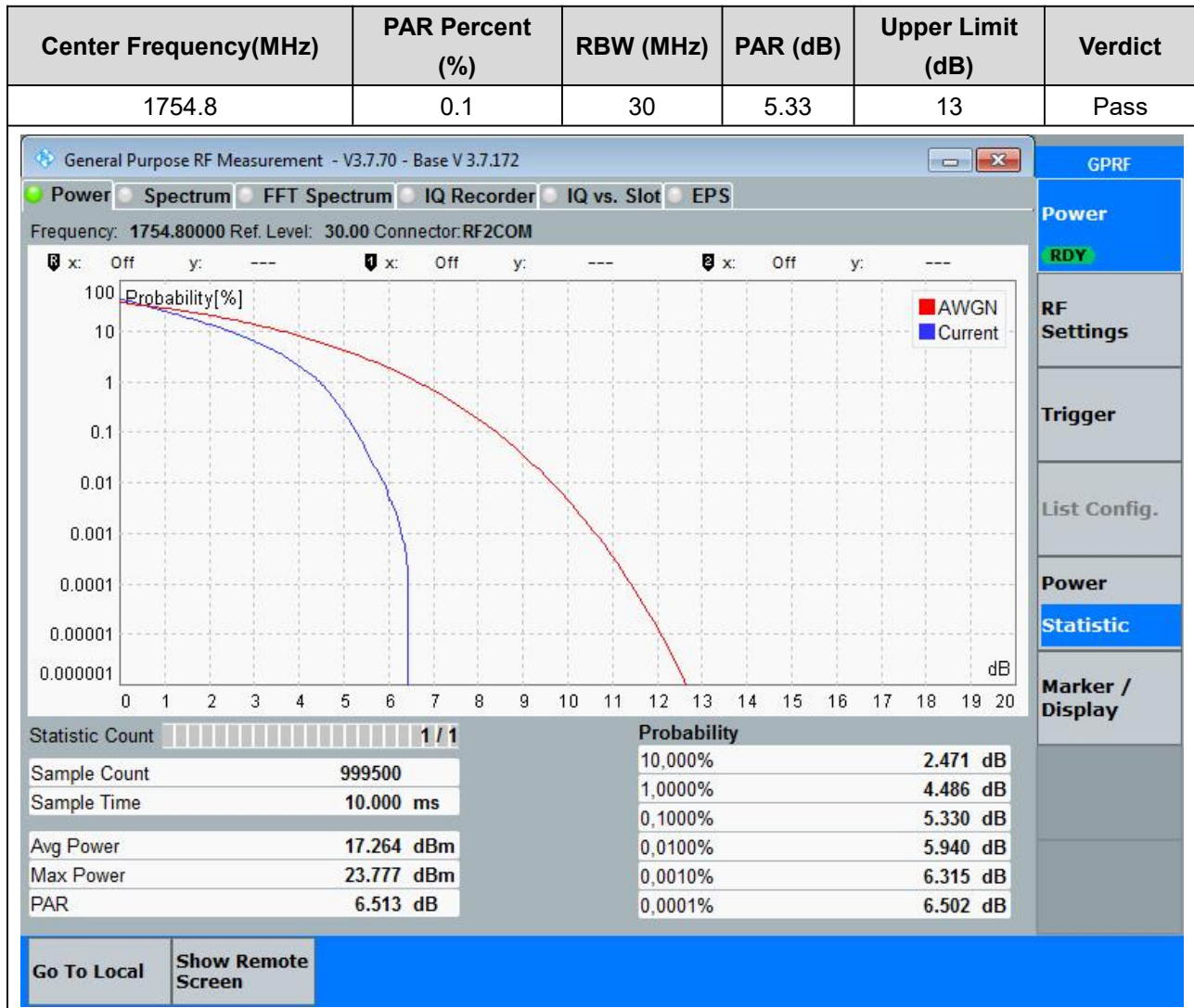
**6.9 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:9,
Channel:132328|132472, Bandwidth:10|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



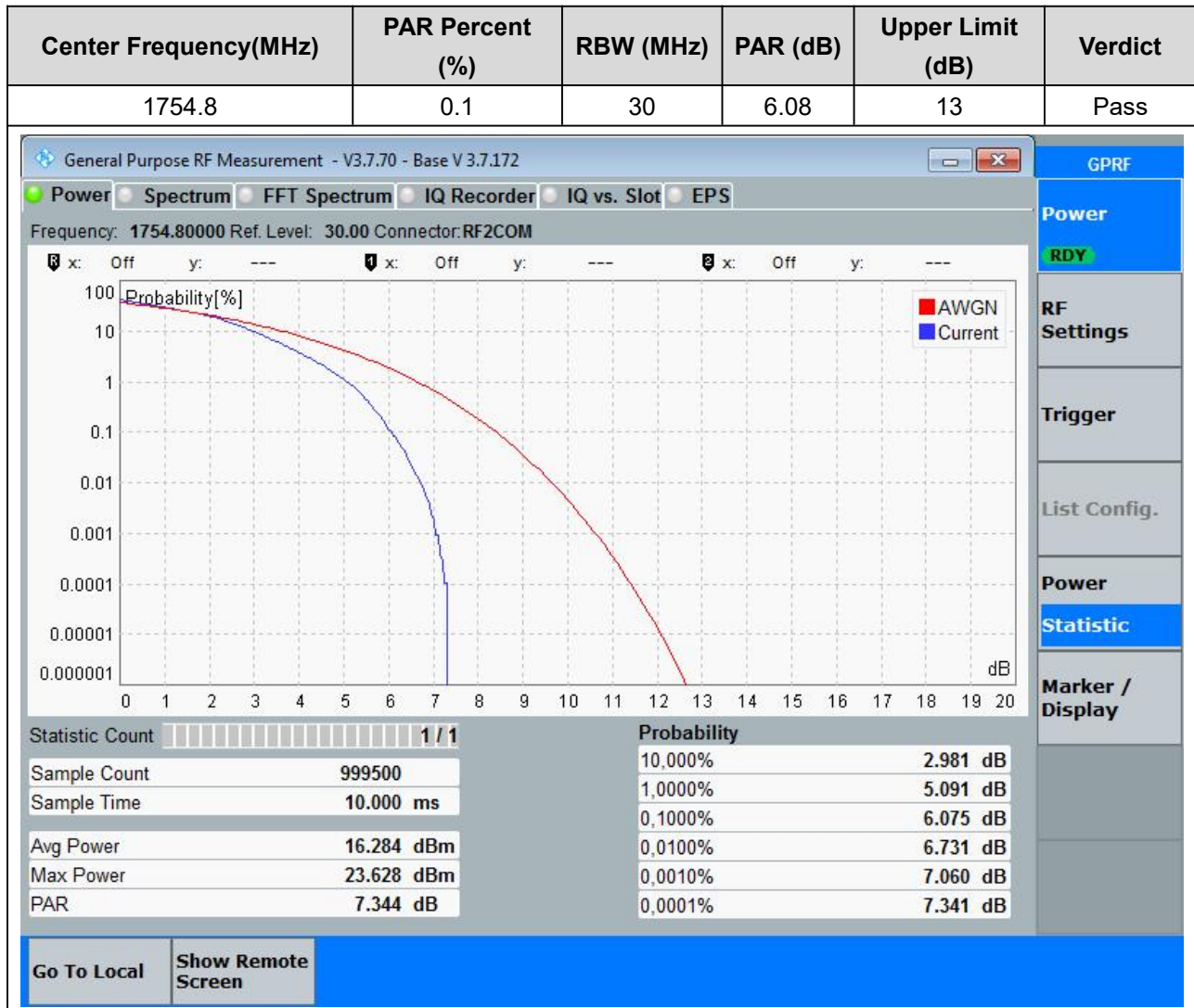
**6.10 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:10,
Channel:132328|132472, Bandwidth:10|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



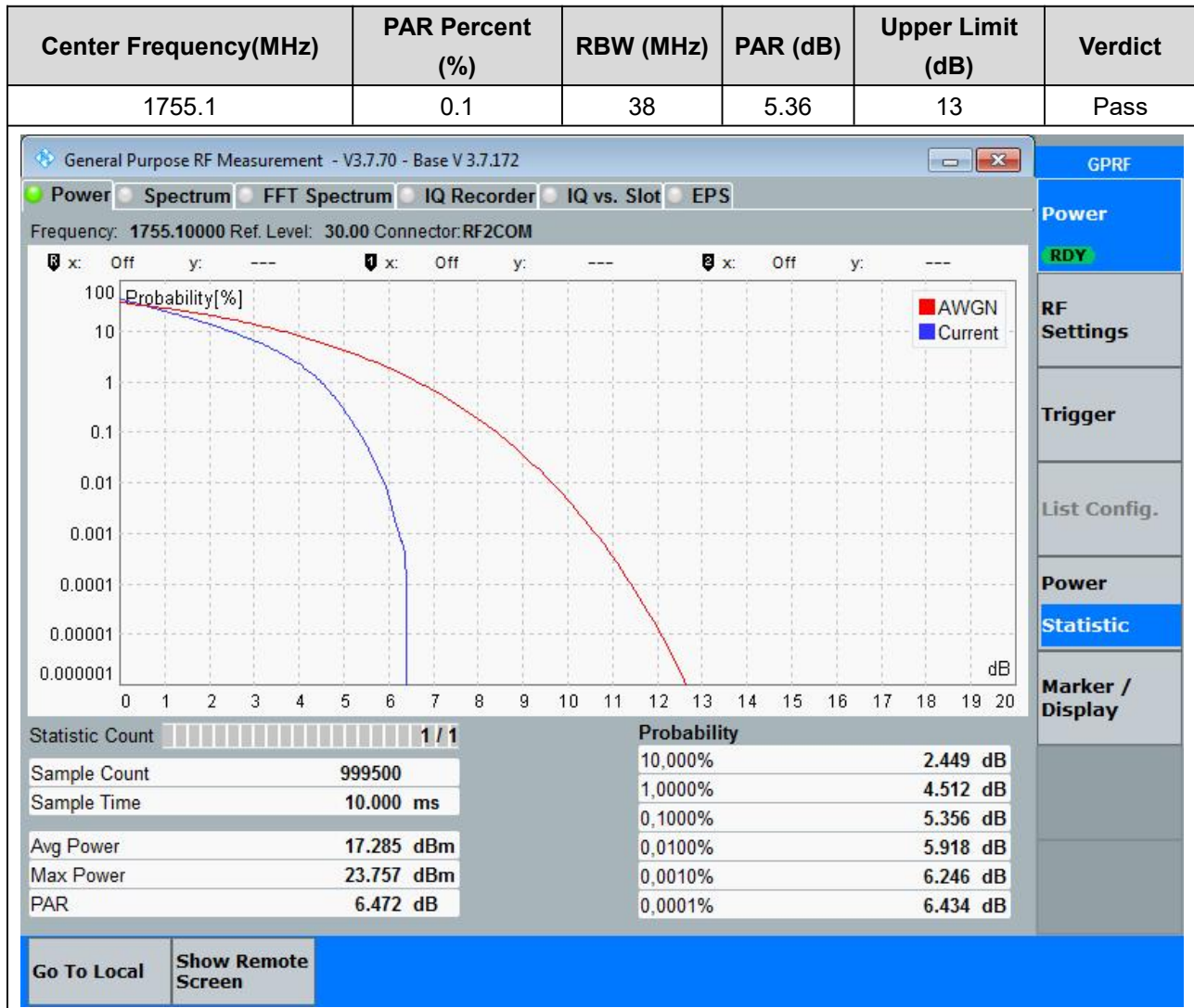
**6.11 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:11,
Channel:132373|132517, Bandwidth:20|10MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



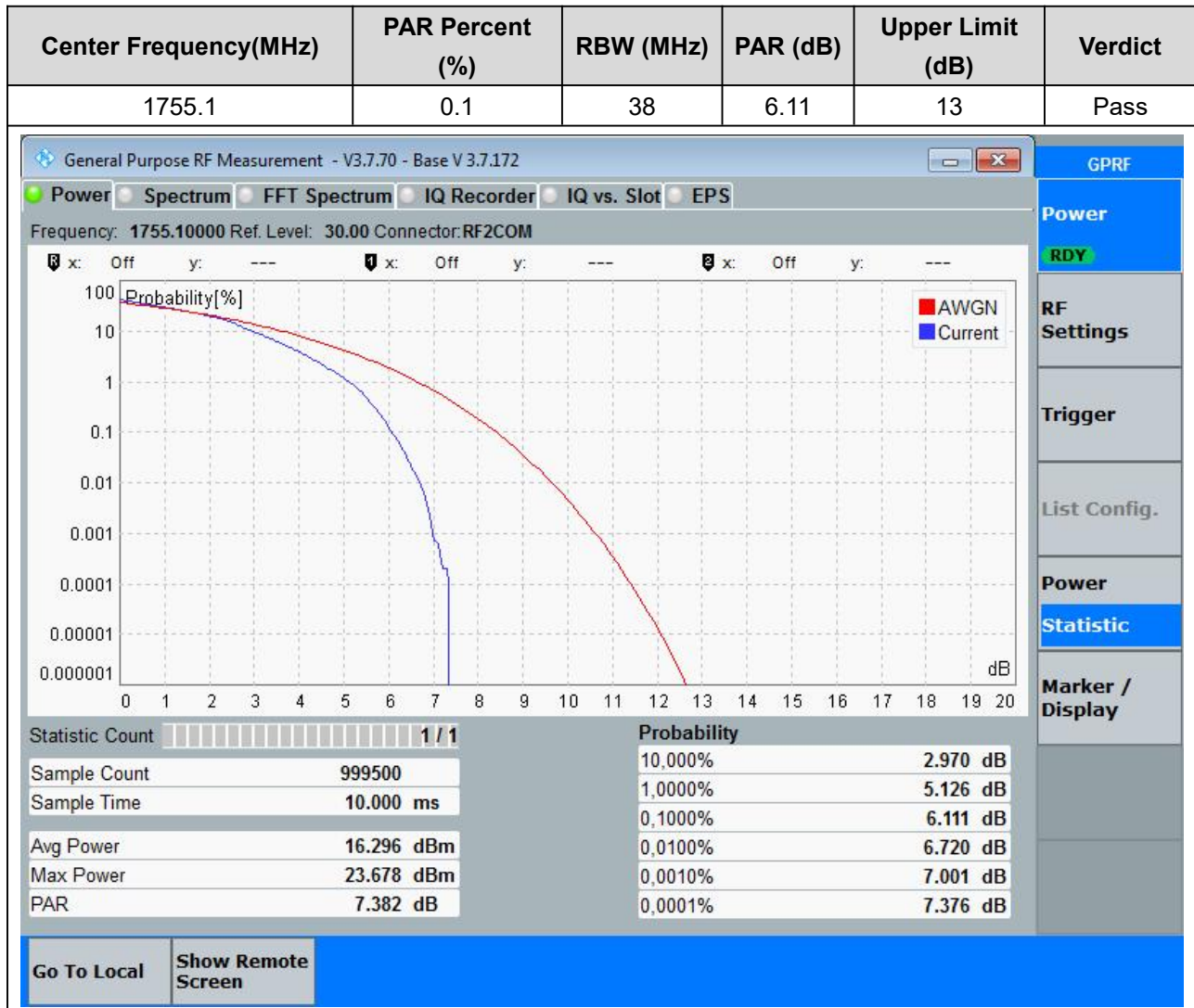
**6.12 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:12,
Channel:132373|132517, Bandwidth:20|10MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



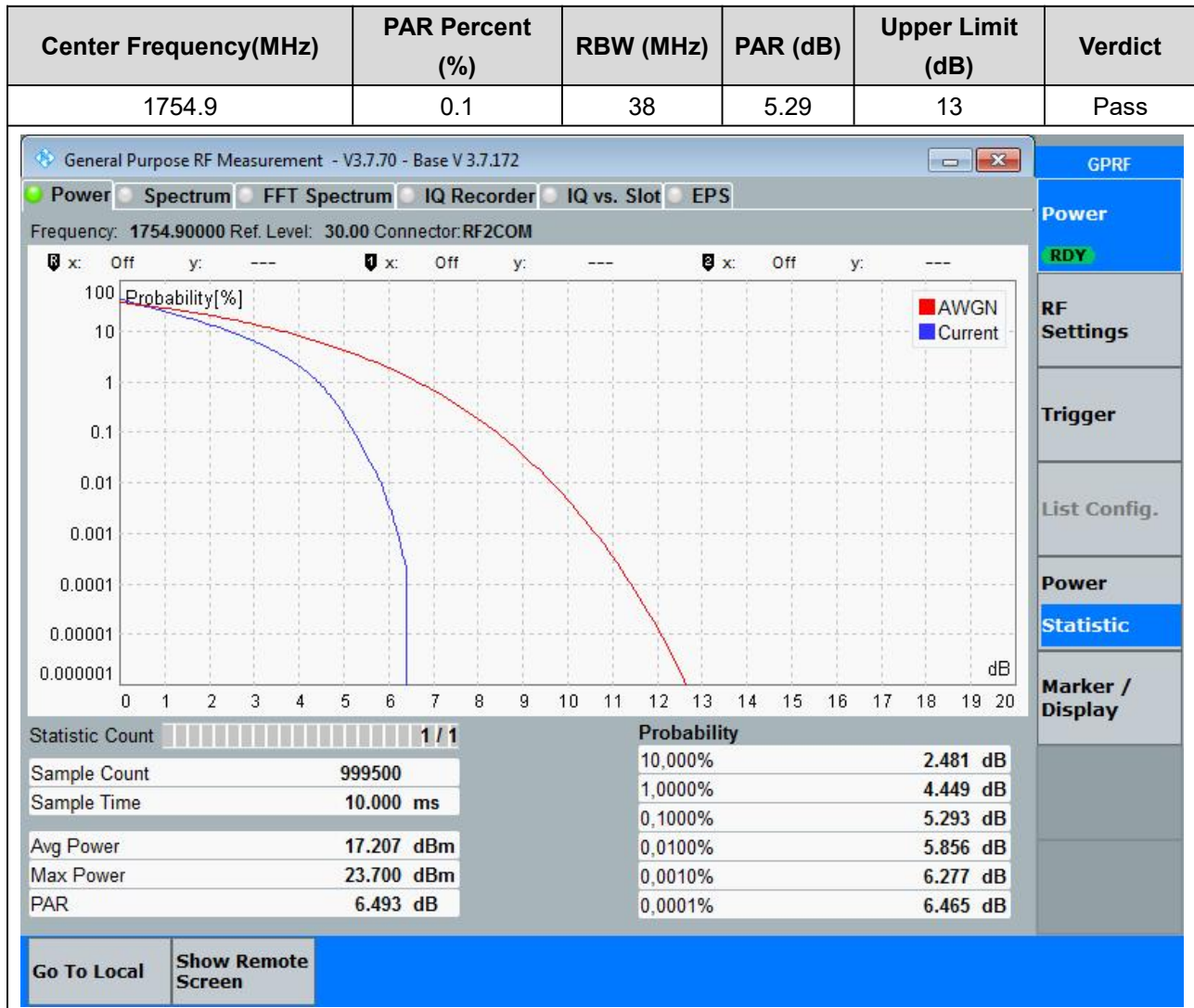
**6.13 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:13,
Channel:132325|132496, Bandwidth:15|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**



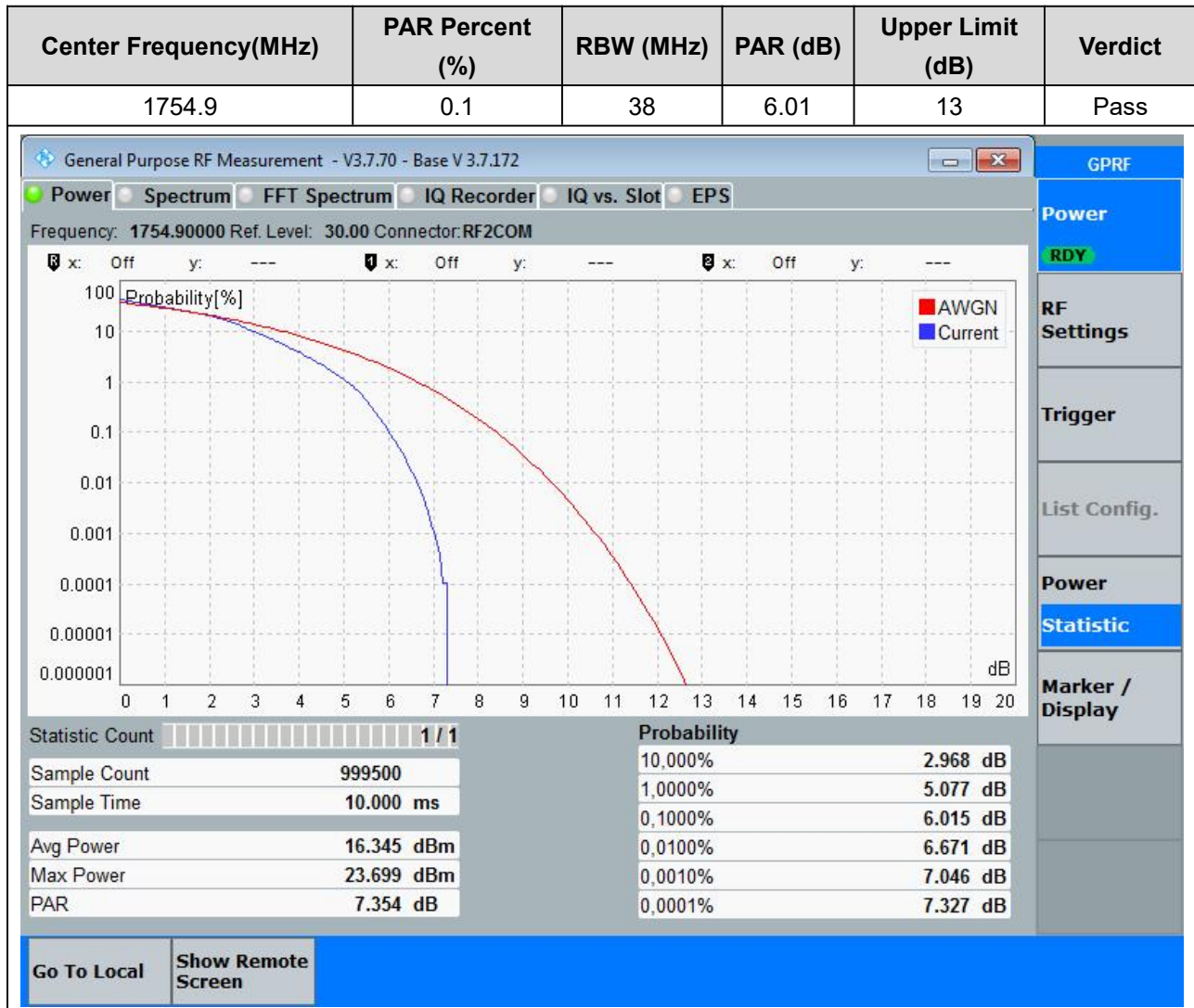
**6.14 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:14,
Channel:132325|132496, Bandwidth:15|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



**6.15 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:15,
Channel:132348|132519, Bandwidth:20|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

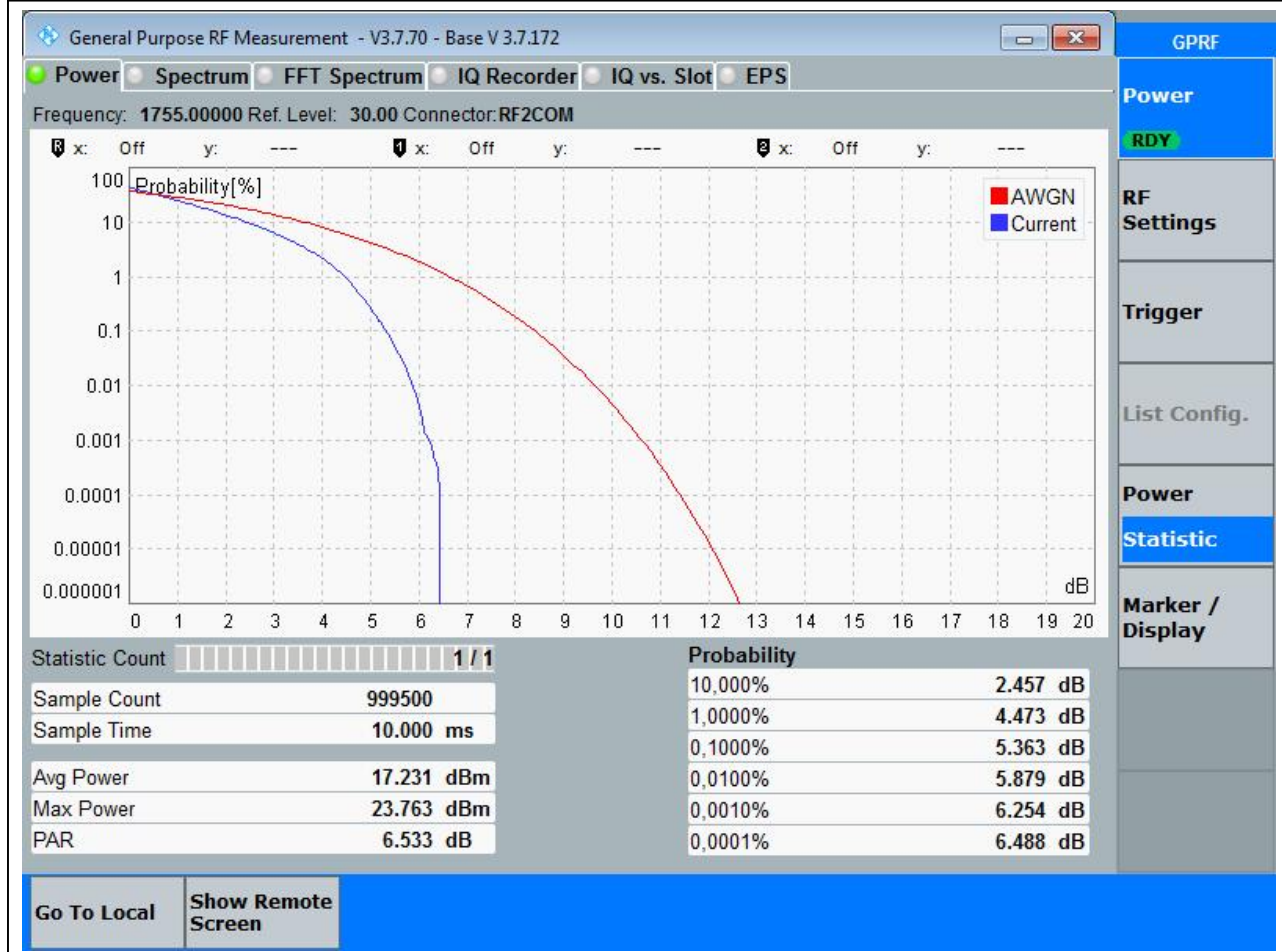


**6.16 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:16,
Channel:132348|132519, Bandwidth:20|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

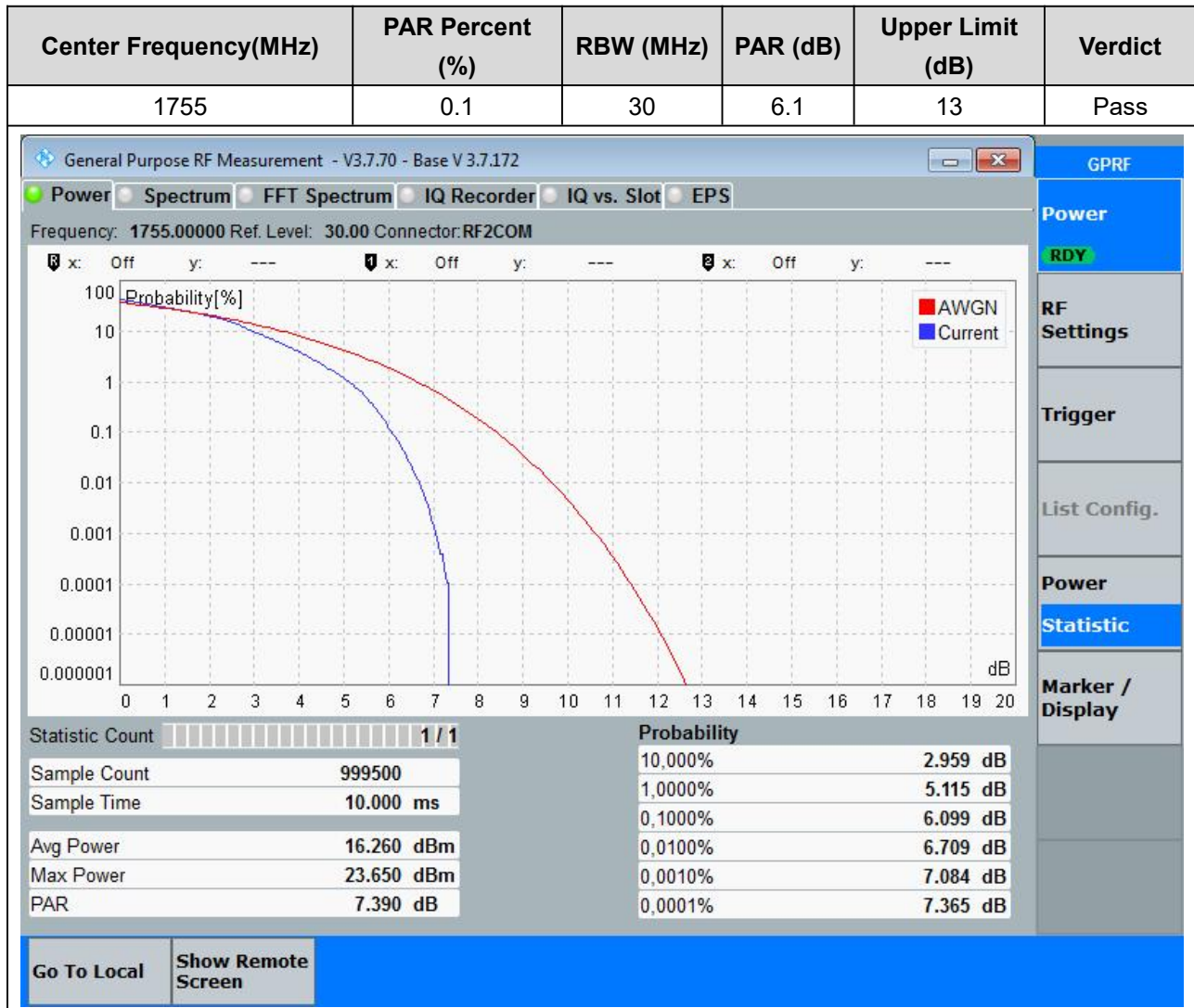


**6.17 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:17,
Channel:132347|132497, Bandwidth:15|15MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1755	0.1	30	5.36	13	Pass

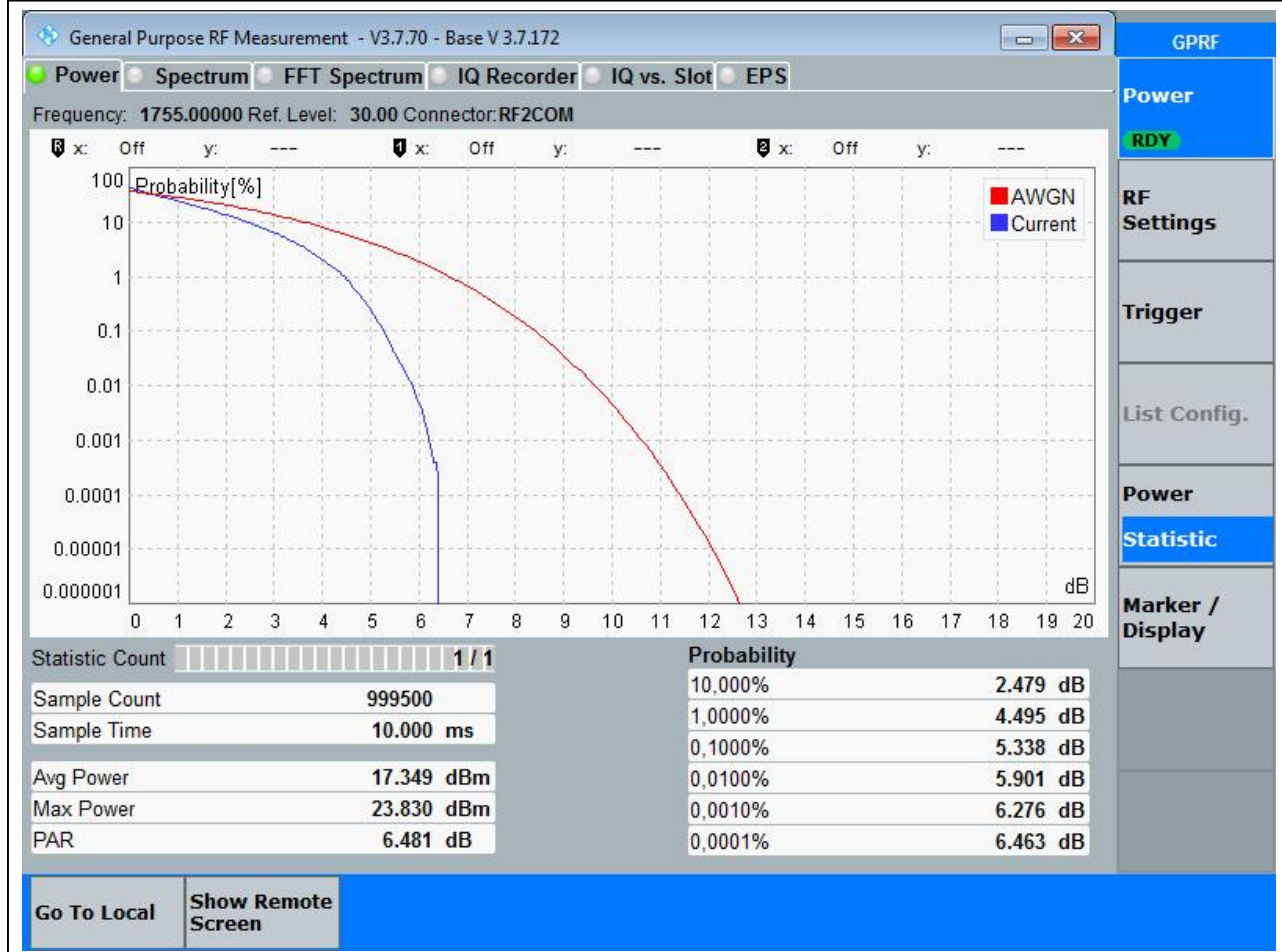


**6.18 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:18,
Channel:132347|132497, Bandwidth:15|15MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**



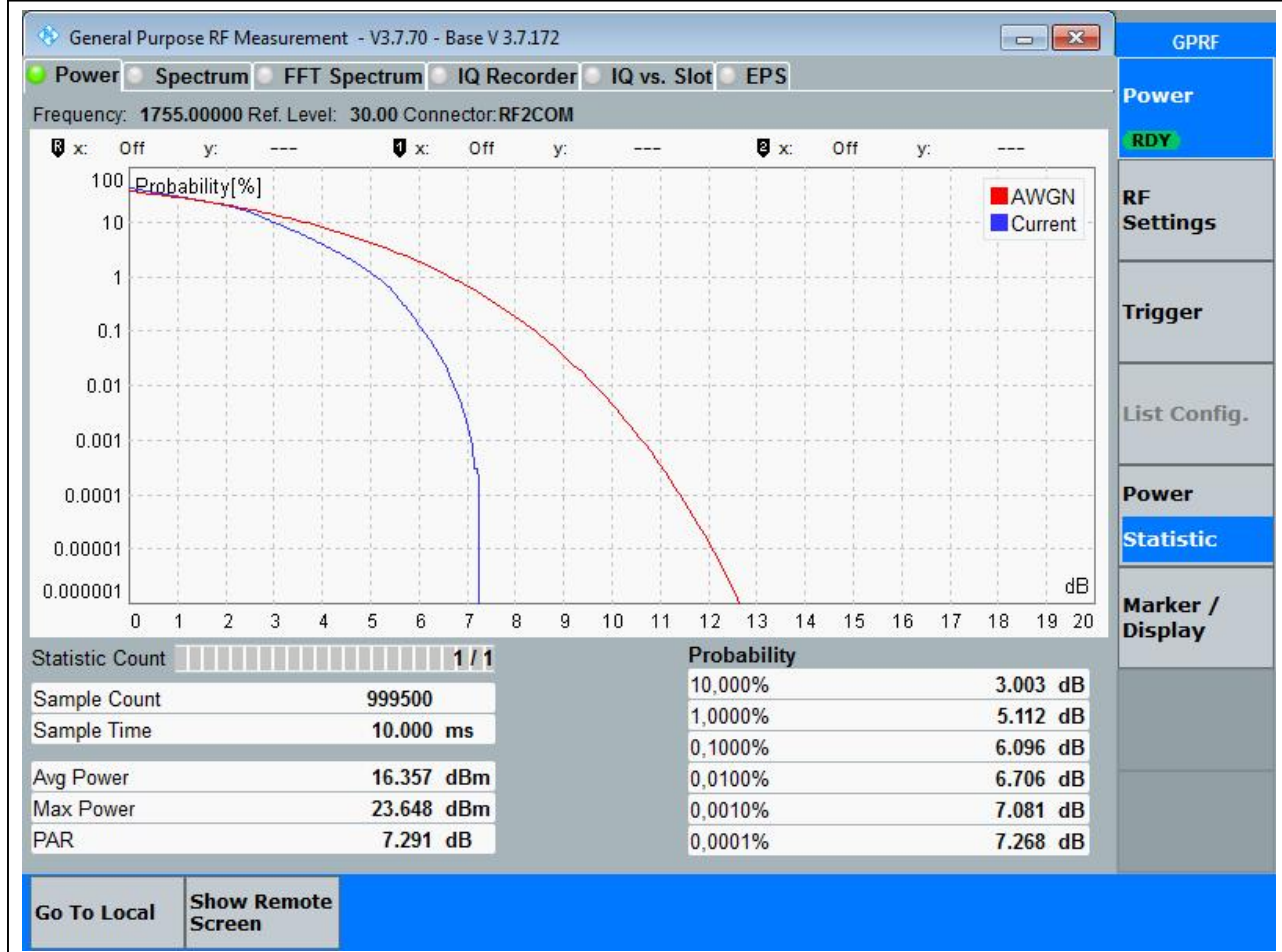
**6.19 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:19,
Channel:132323|132521, Bandwidth:20|20MHz, Modulation:QPSK, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1755	0.1	40	5.34	13	Pass



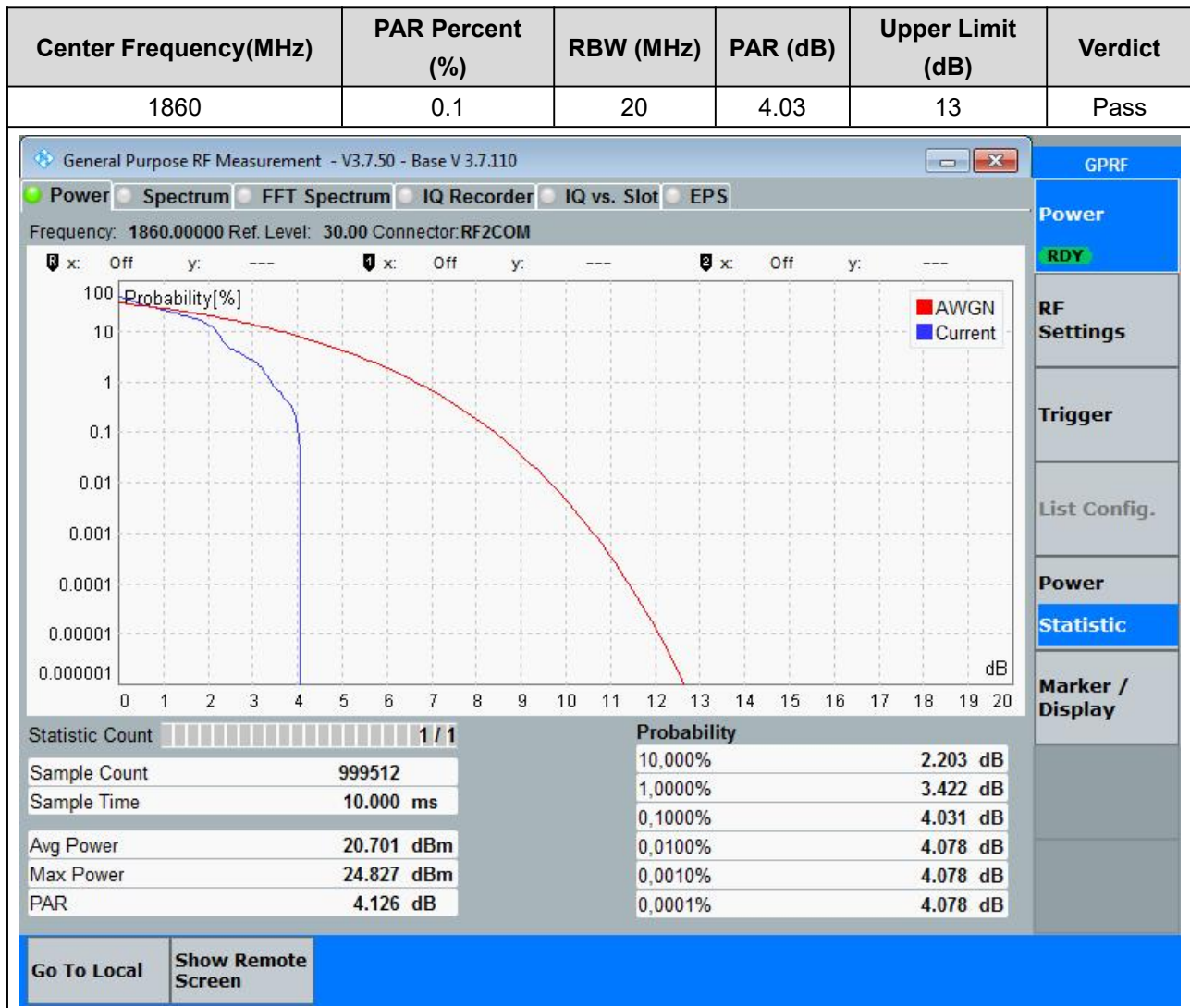
**6.20 LTE-A Peak to Average Ratio_Part22-24-27(NTNV)(Subtest:20,
Channel:132323|132521, Bandwidth:20|20MHz, Modulation:16QAM, RB
Number:Full|Full, RB Position:Low|Low)**

Center Frequency(MHz)	PAR Percent (%)	RBW (MHz)	PAR (dB)	Upper Limit (dB)	Verdict
1755	0.1	40	6.1	13	Pass

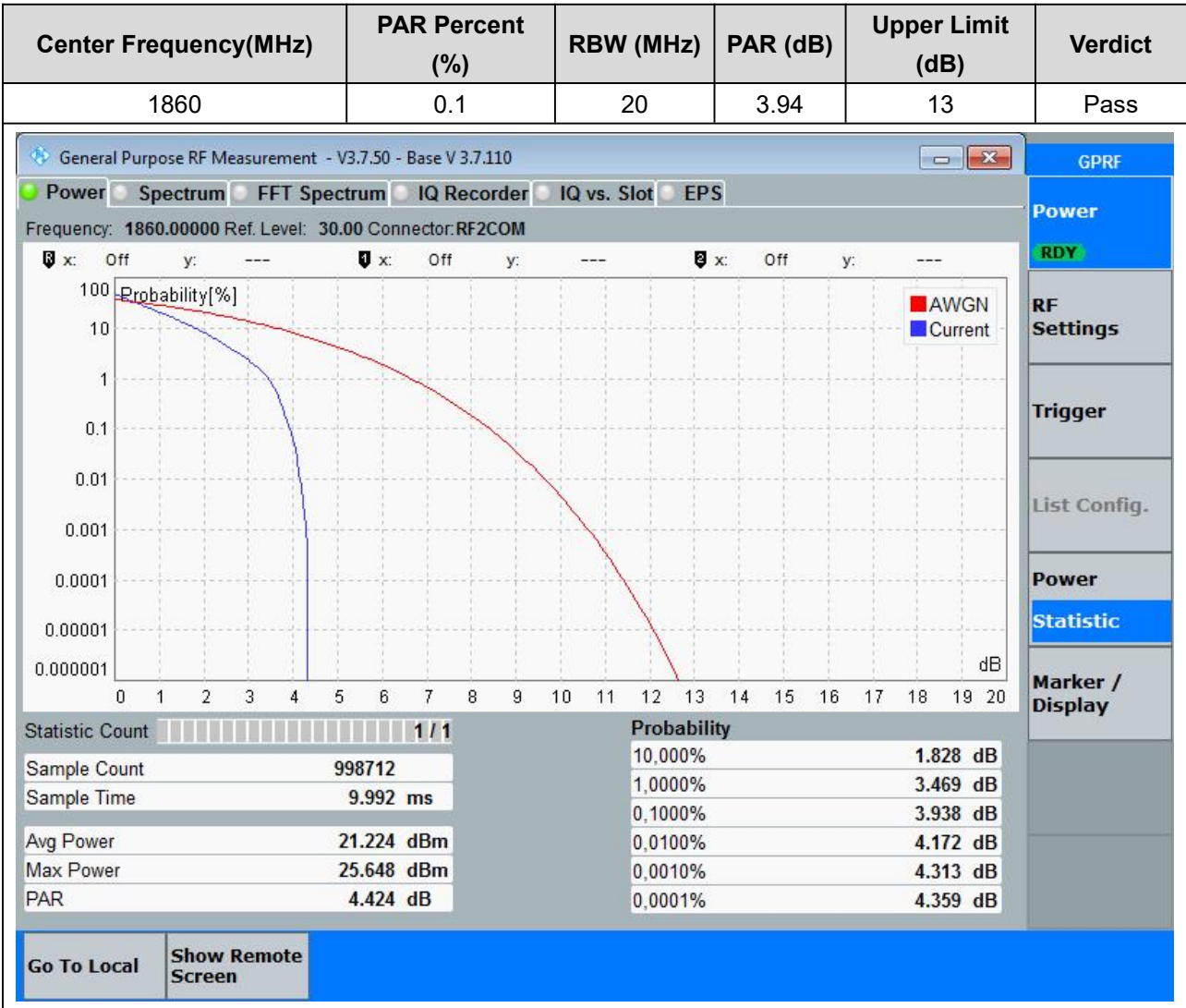


1. n2 15kHz

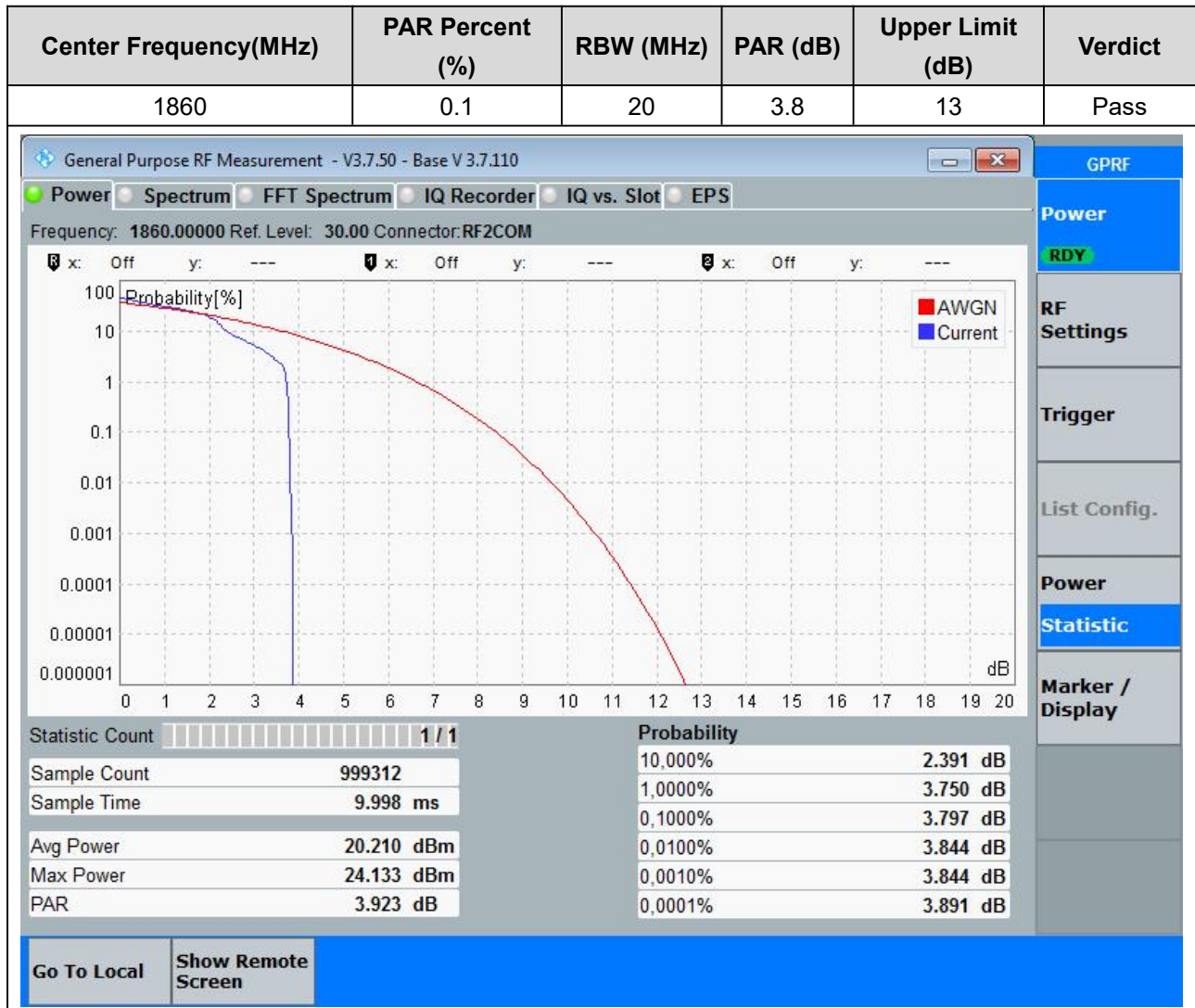
1.1 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:372000, Bandwidth:20, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:1, RB Position:0)



1.2 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:372000, Bandwidth:20, SCS:15, OFDM:DFT-s-OFDM, Modulation:Pi/2-BPSK, RB Number:100, RB Position:0)



1.3 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:372000, Bandwidth:20, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:1, RB Position:0)



1.4 Peak to Average Ratio for SA_Part22-24-27(NTNV)(Channel:372000, Bandwidth:20, SCS:15, OFDM:DFT-s-OFDM, Modulation:QPSK, RB Number:100, RB Position:0)

