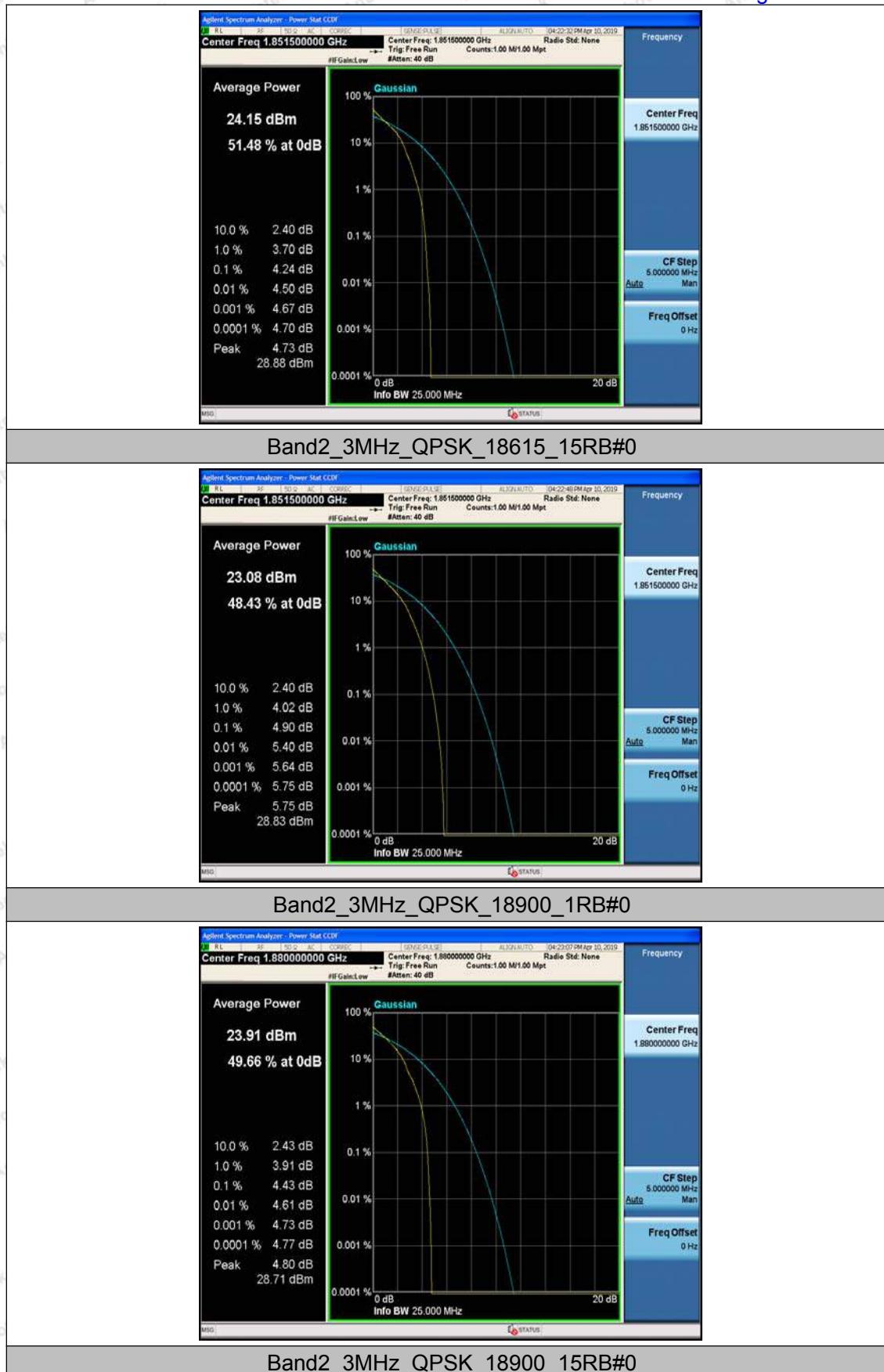


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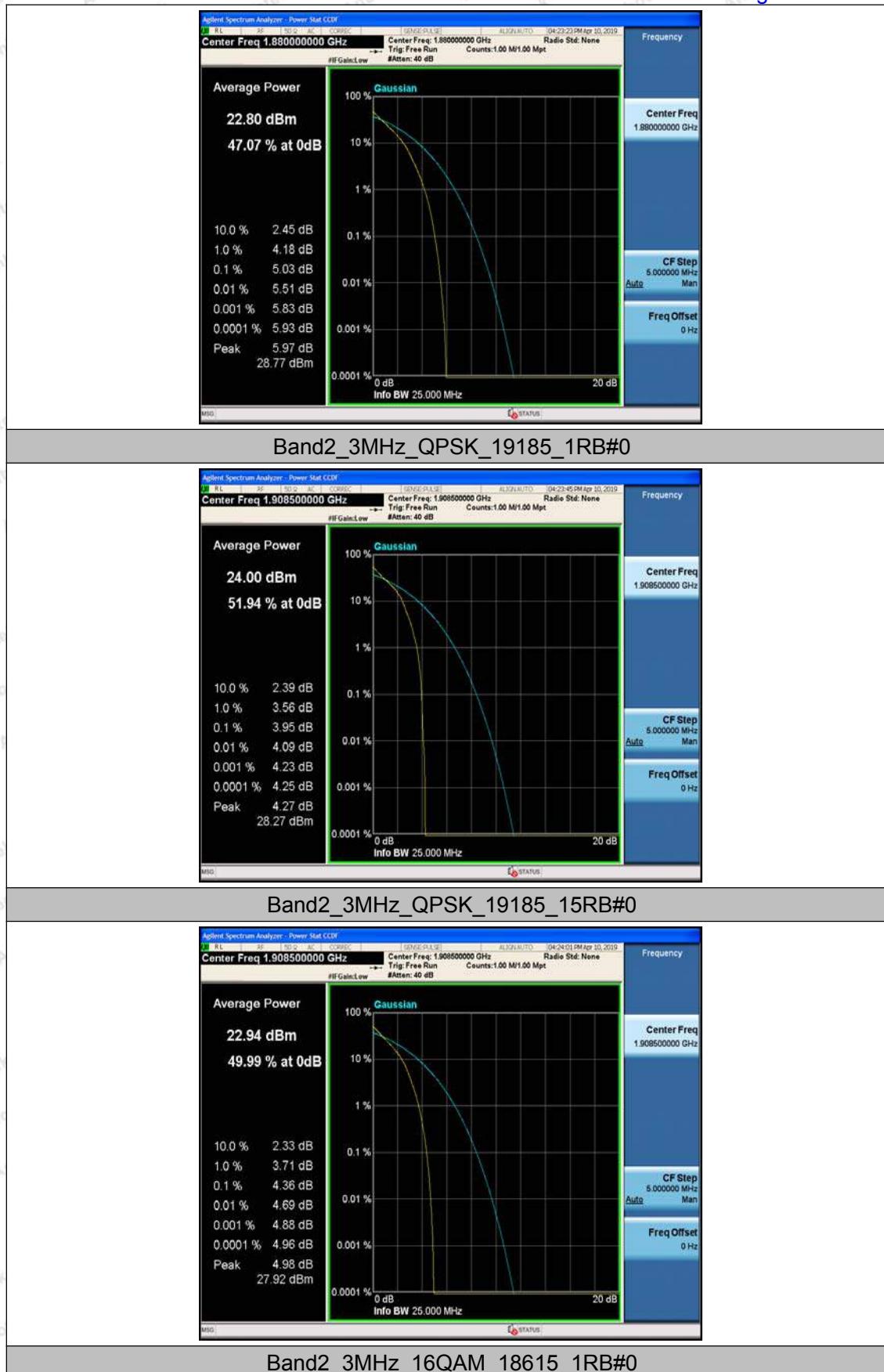
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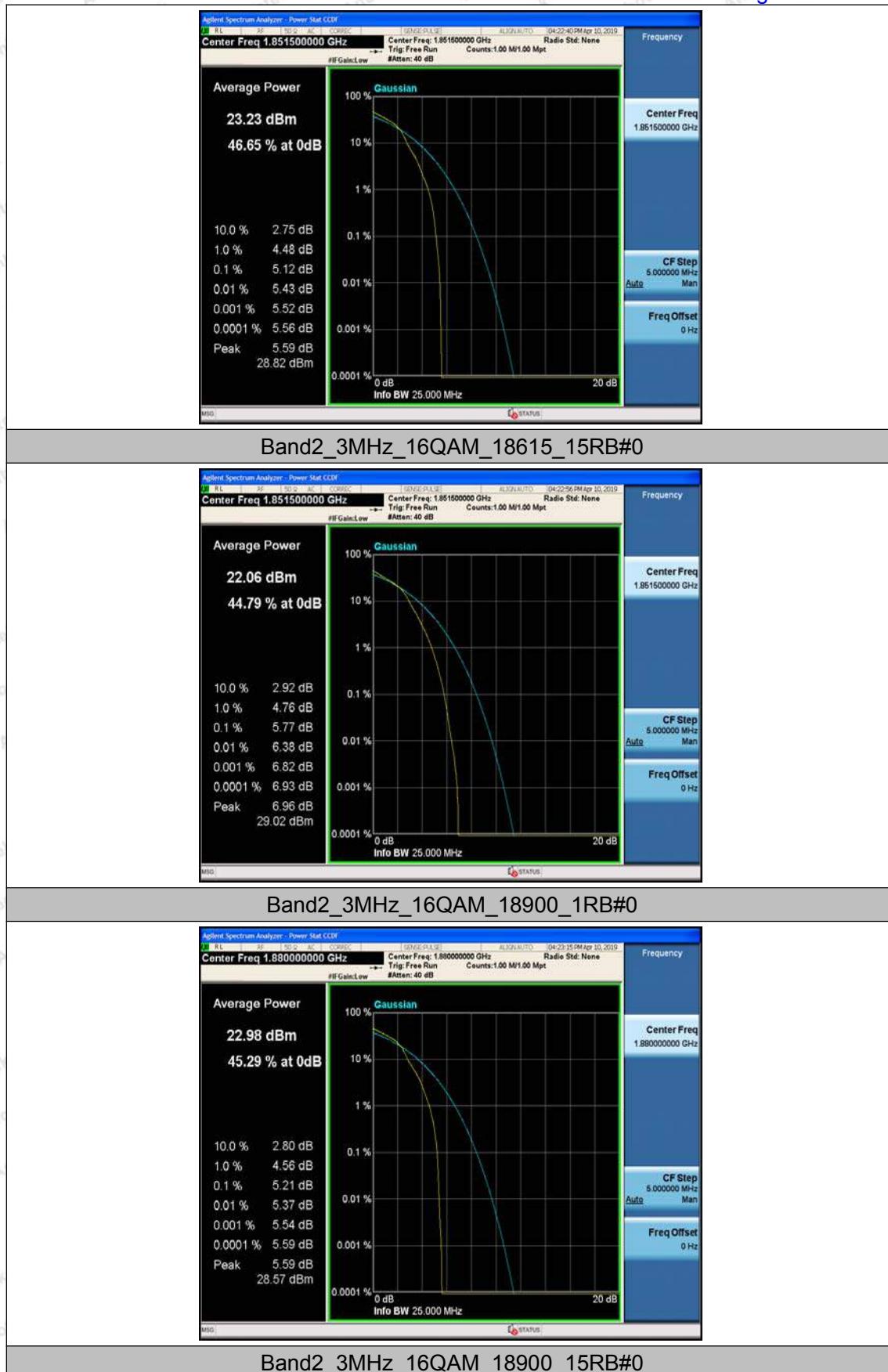
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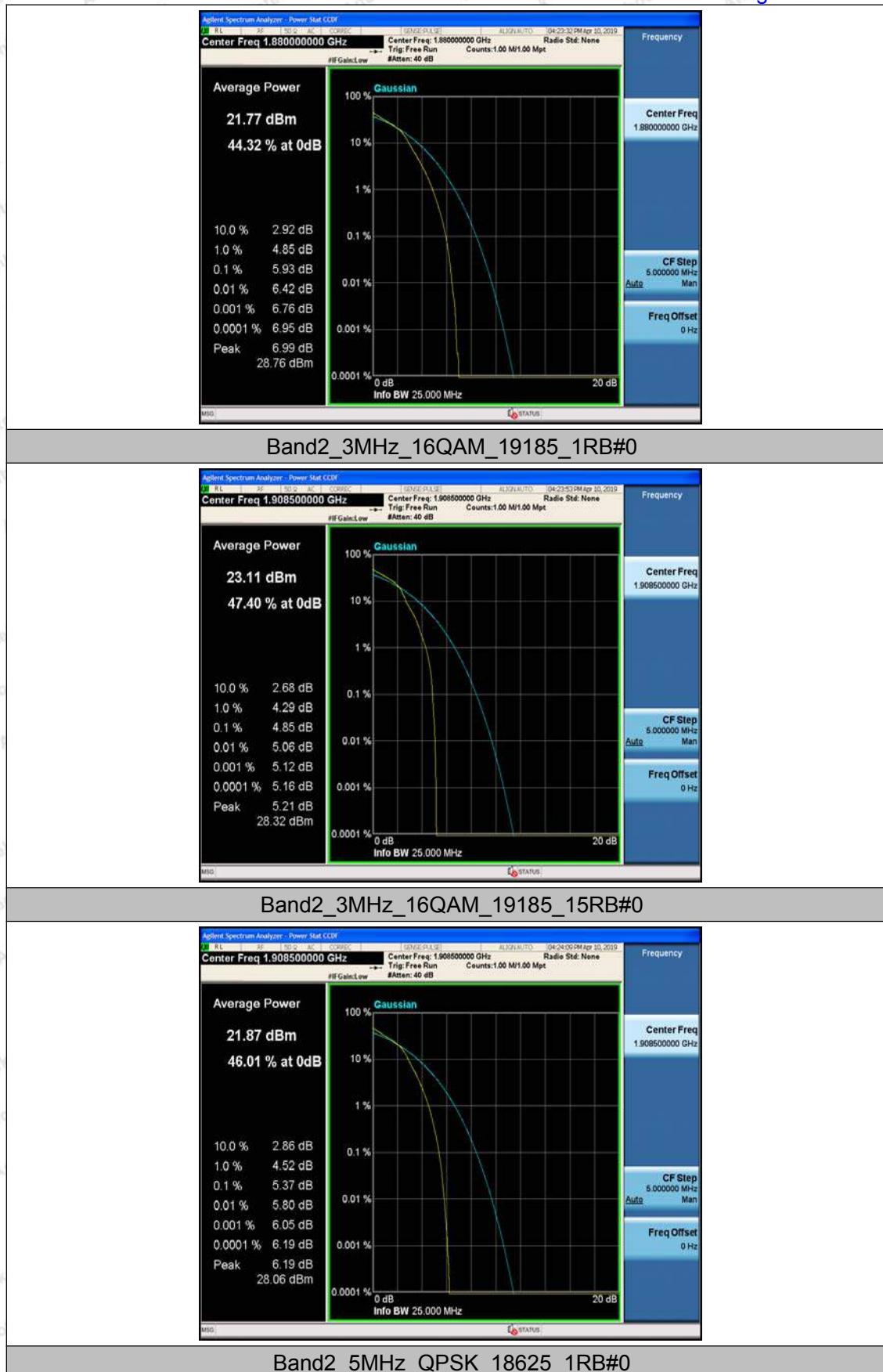
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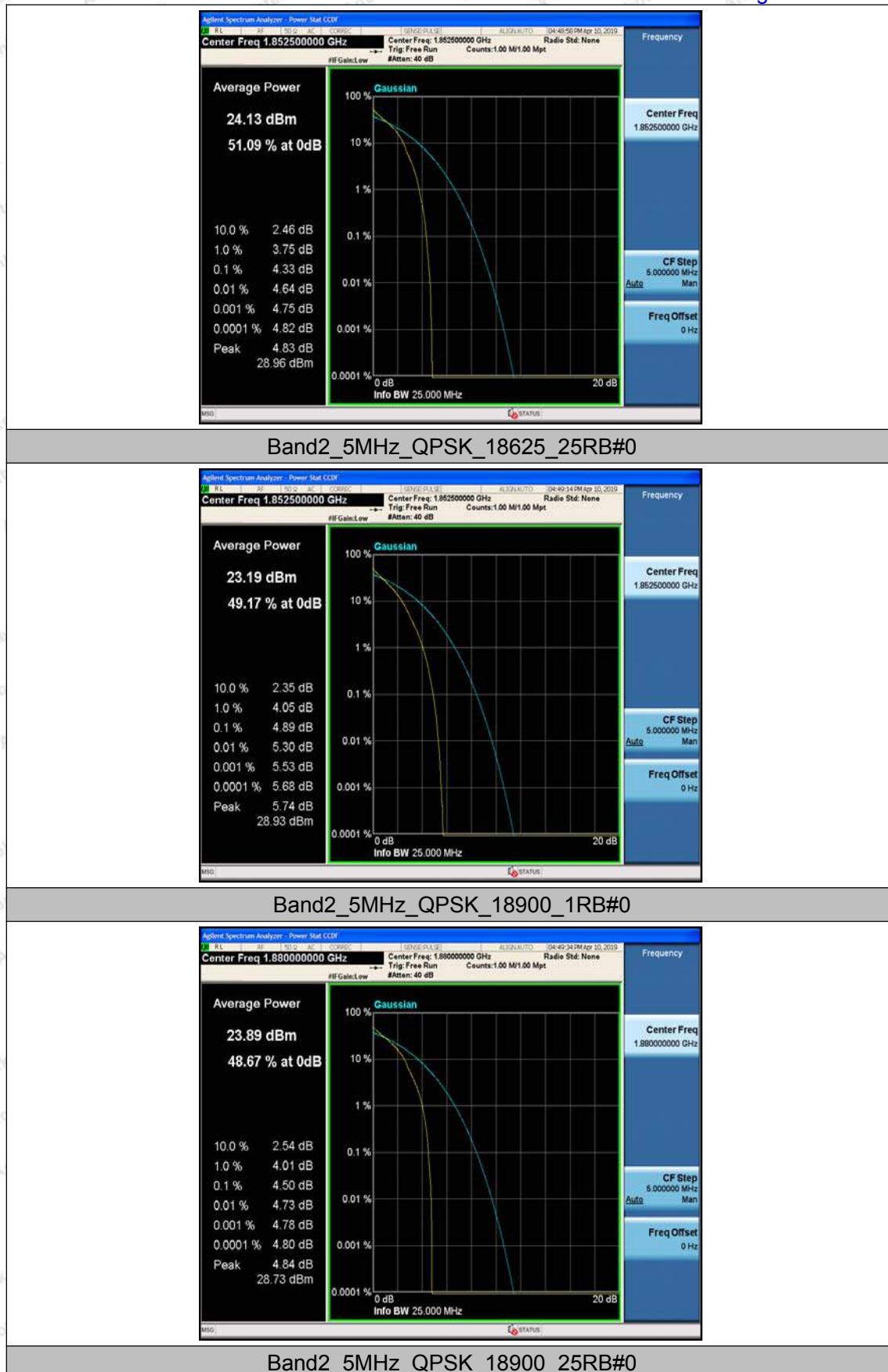
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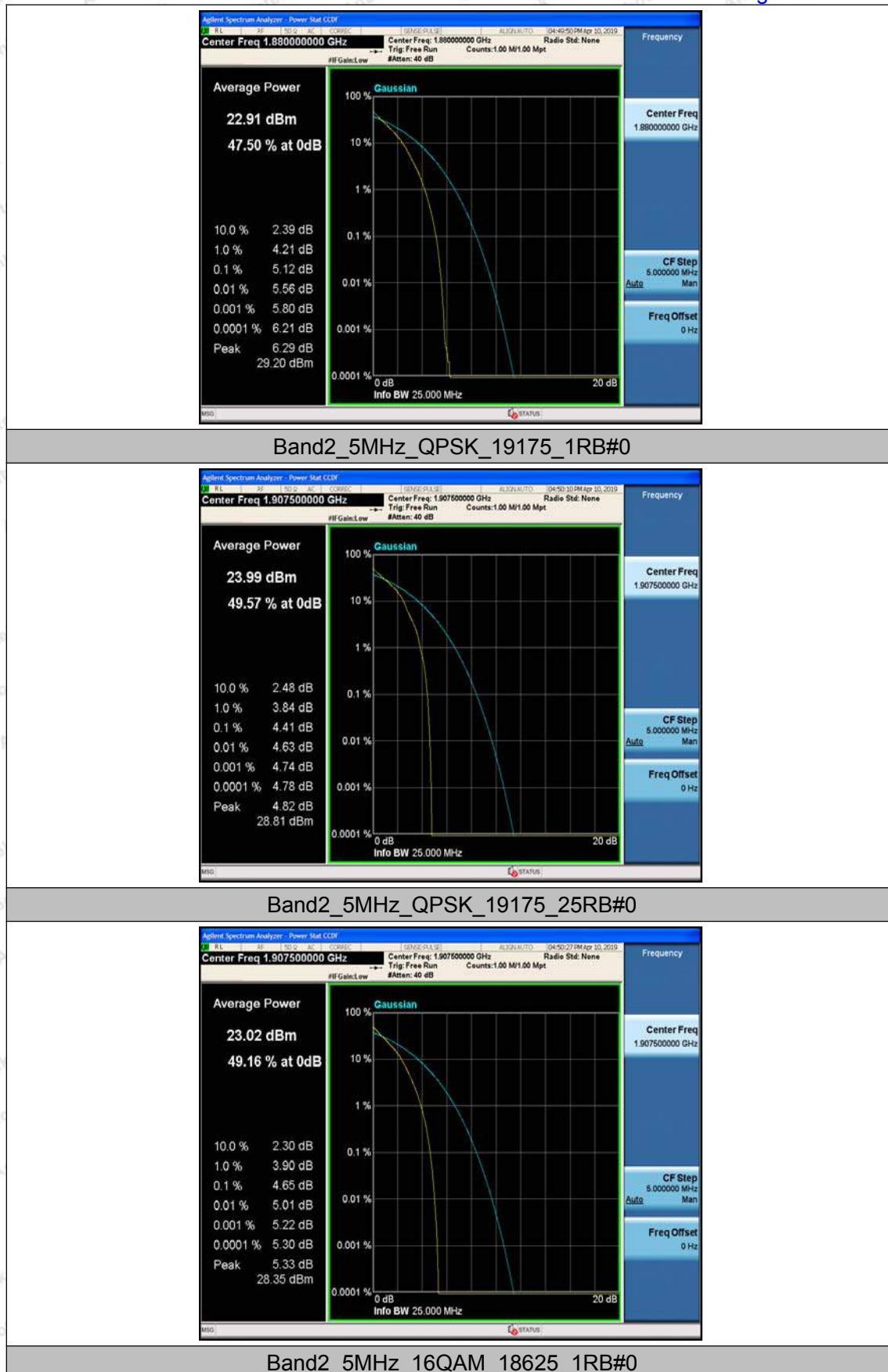
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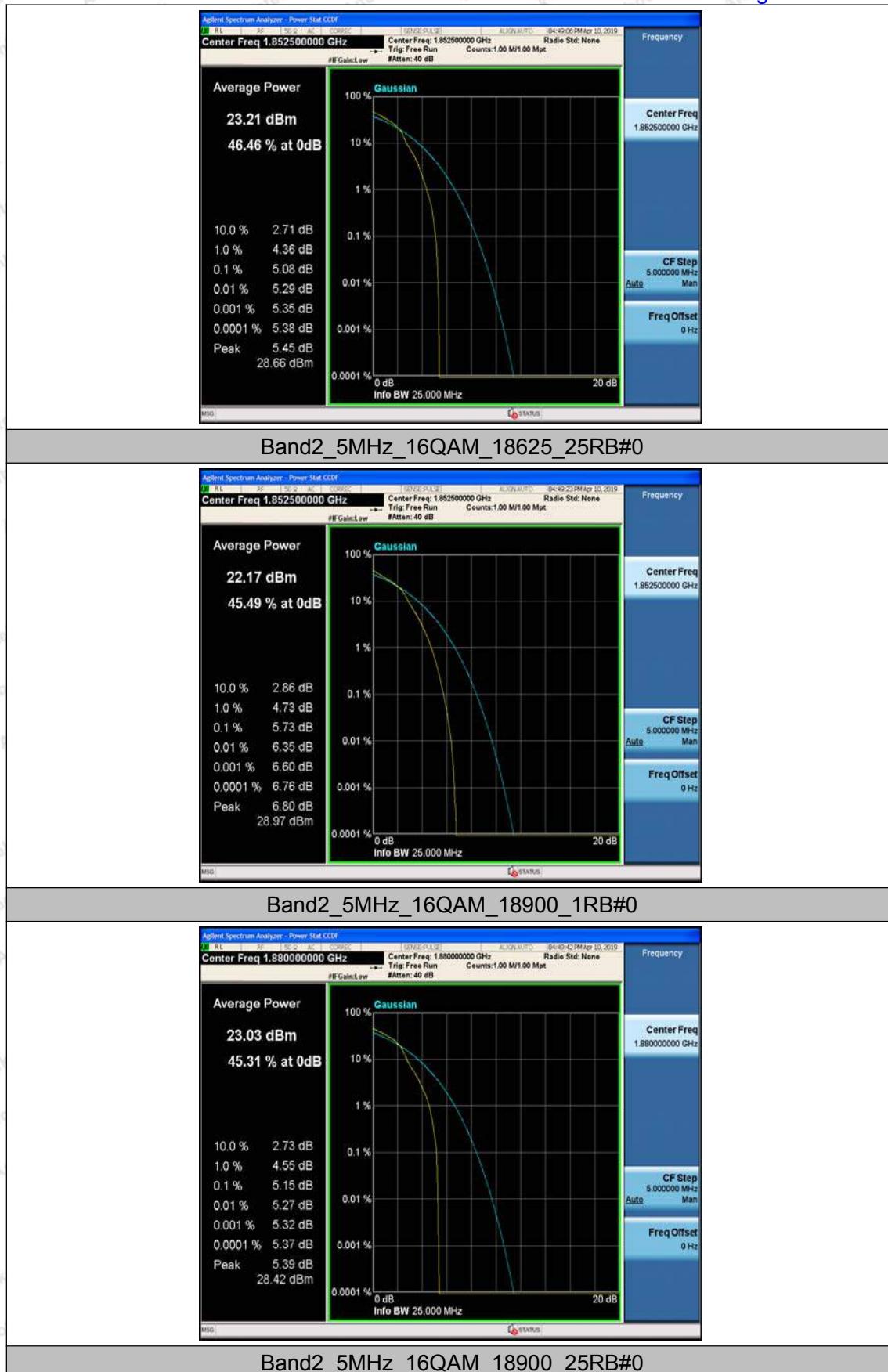
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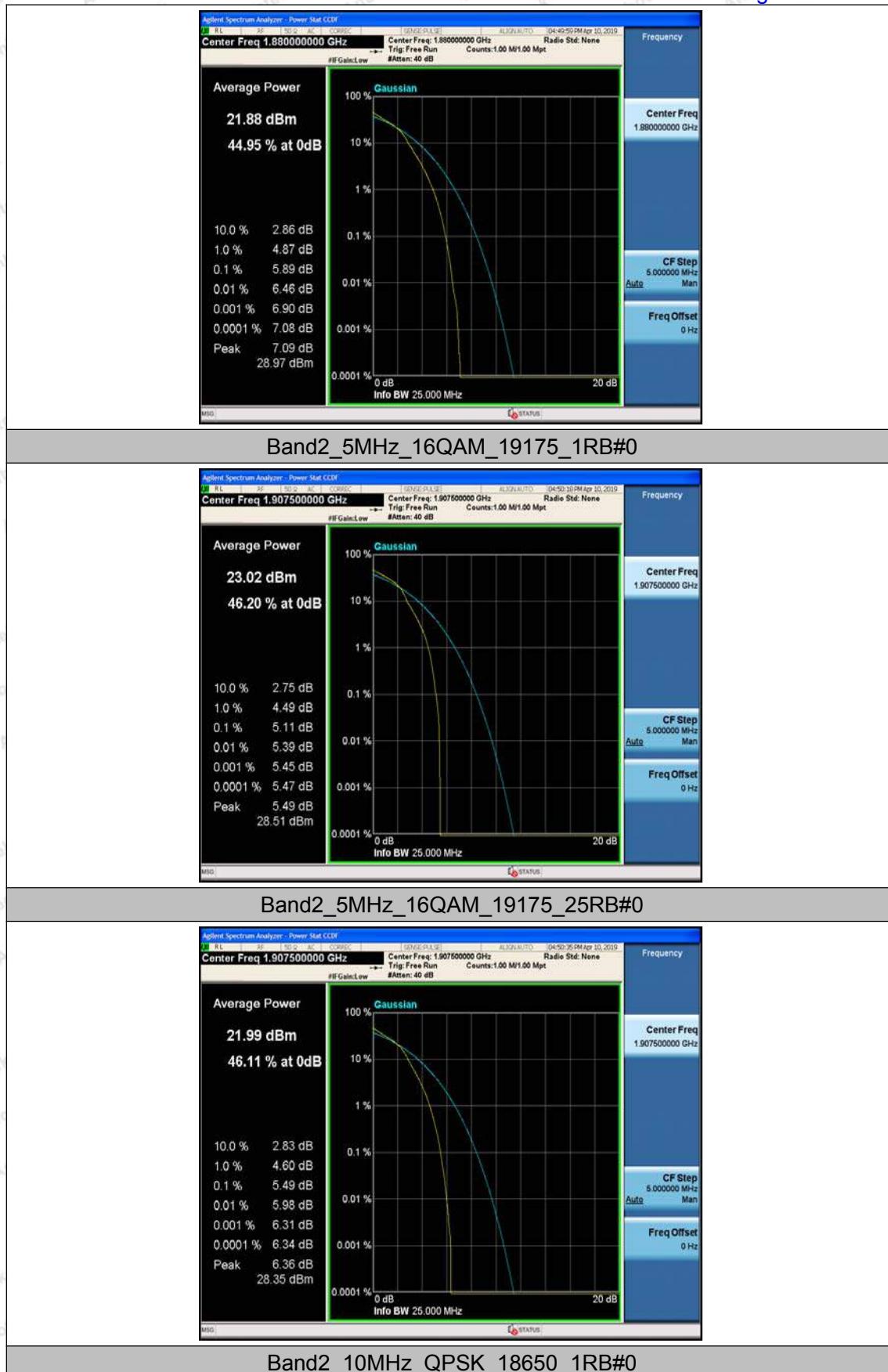
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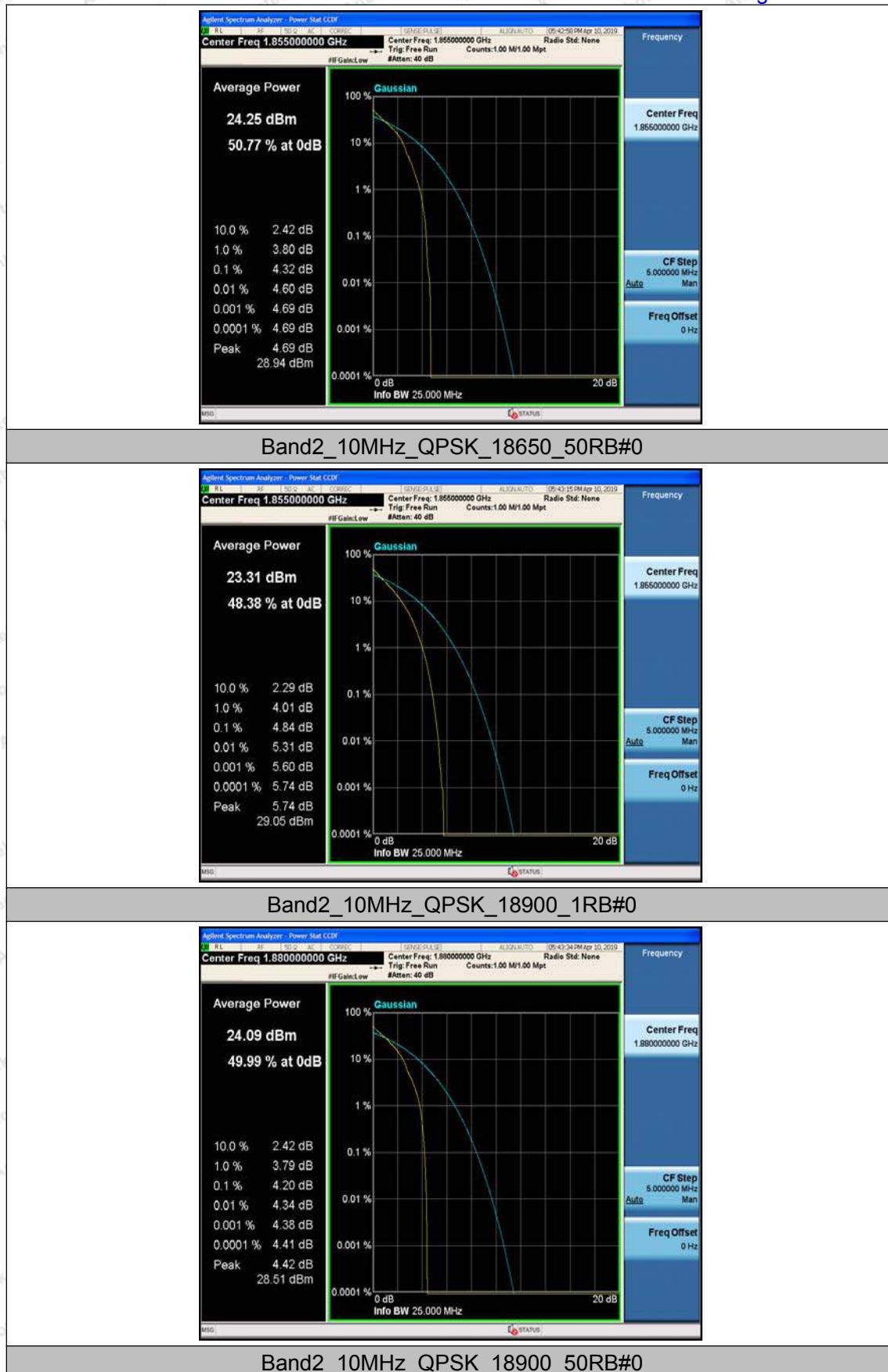
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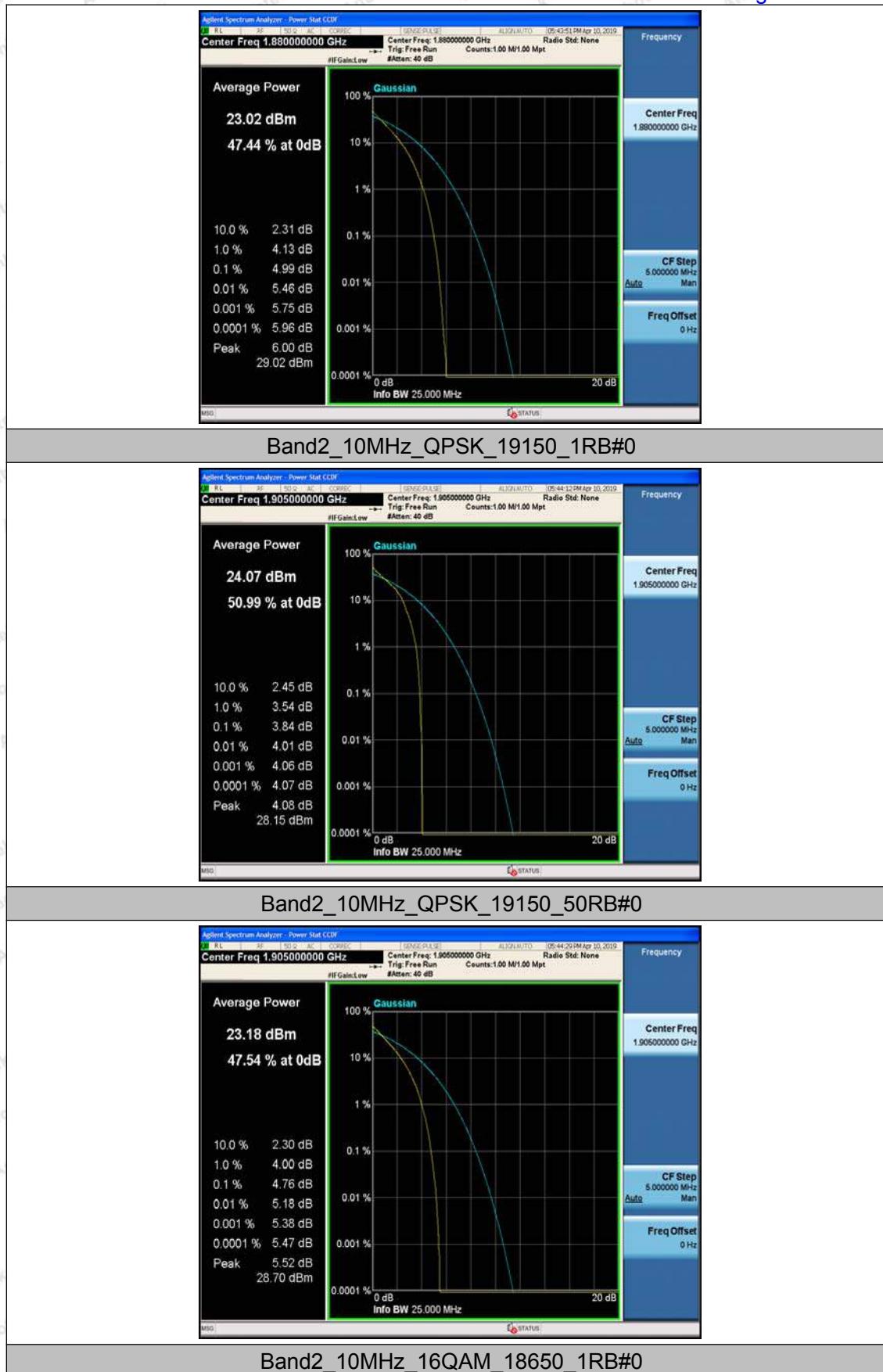
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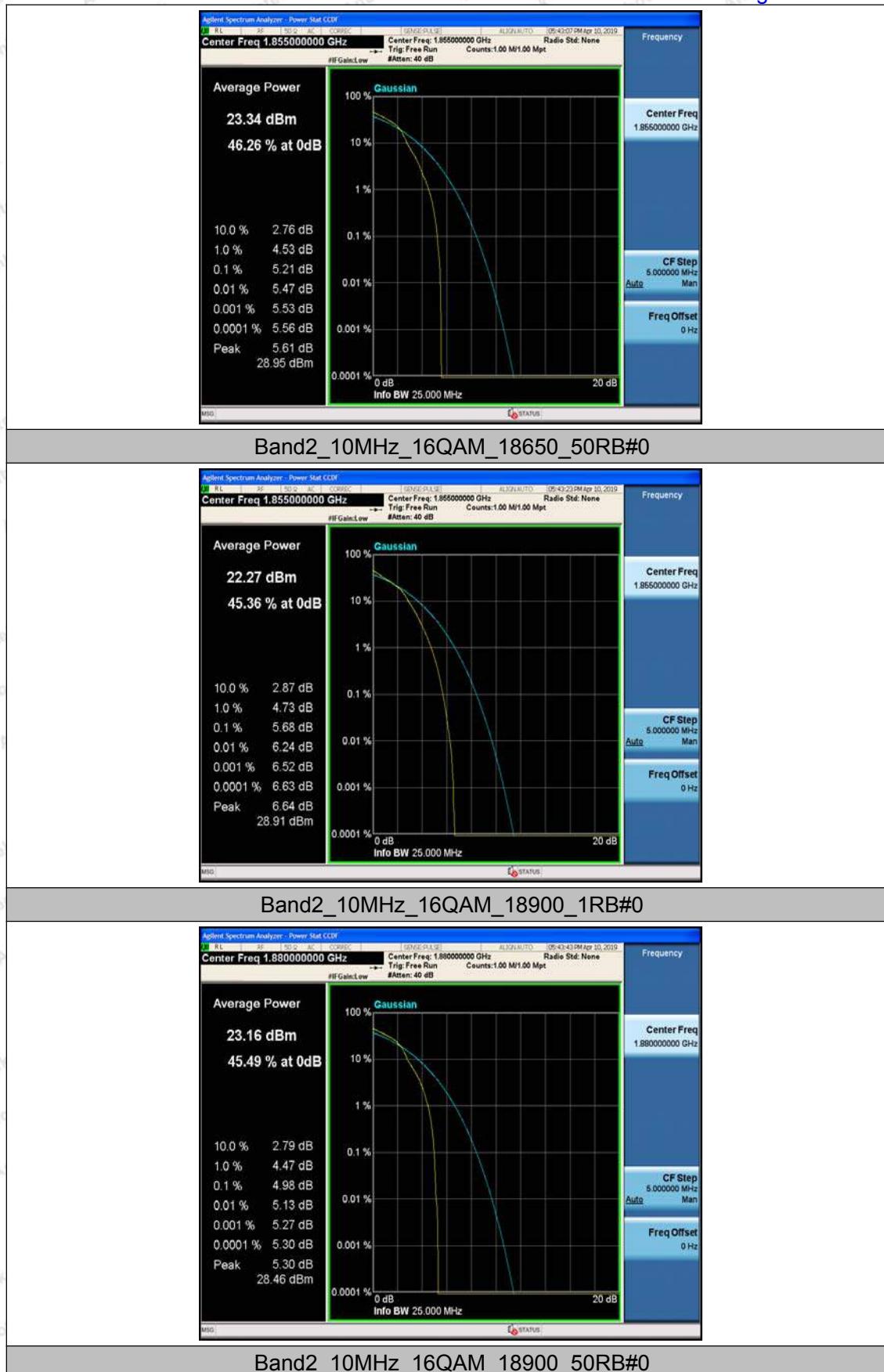
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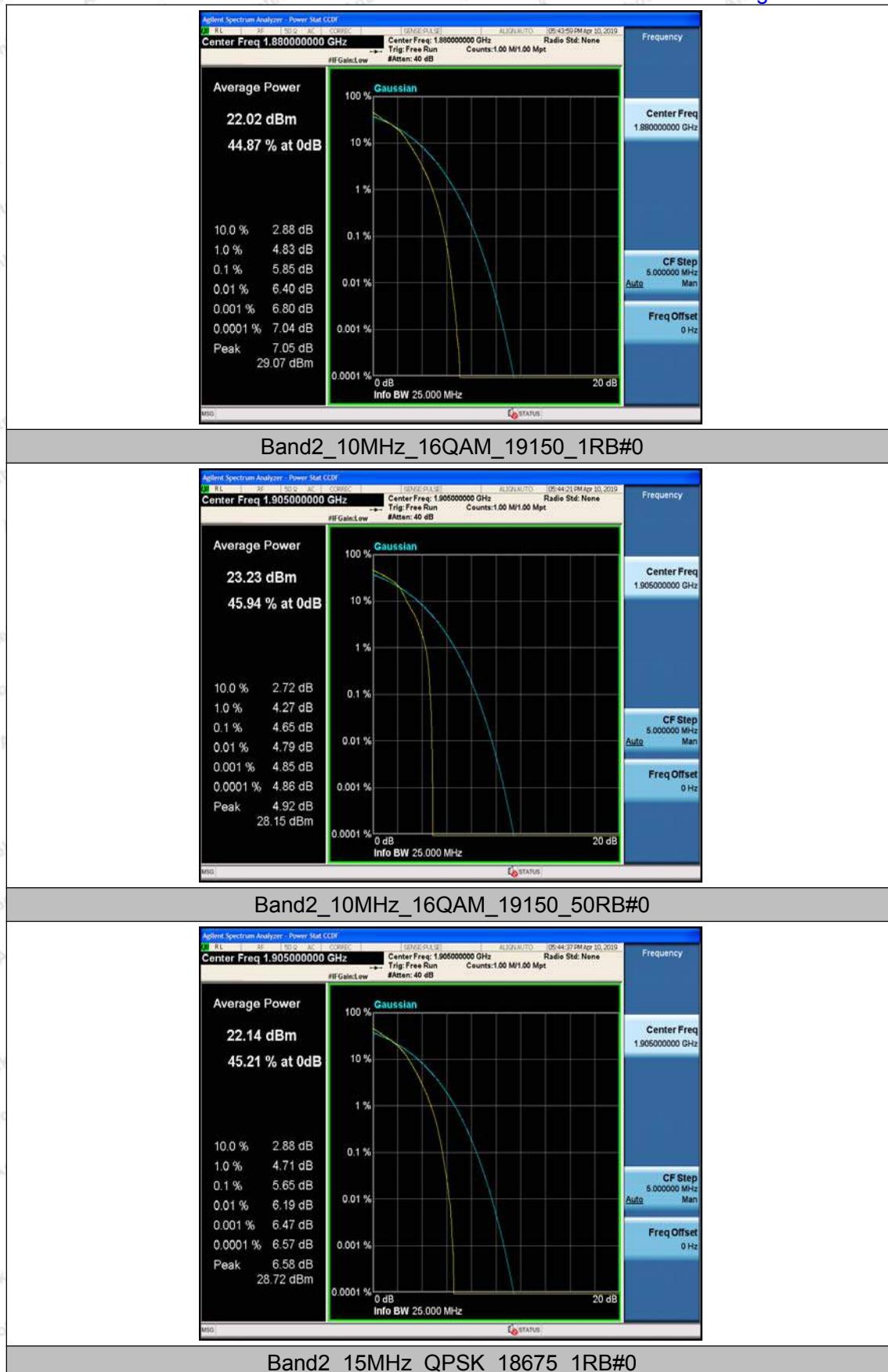
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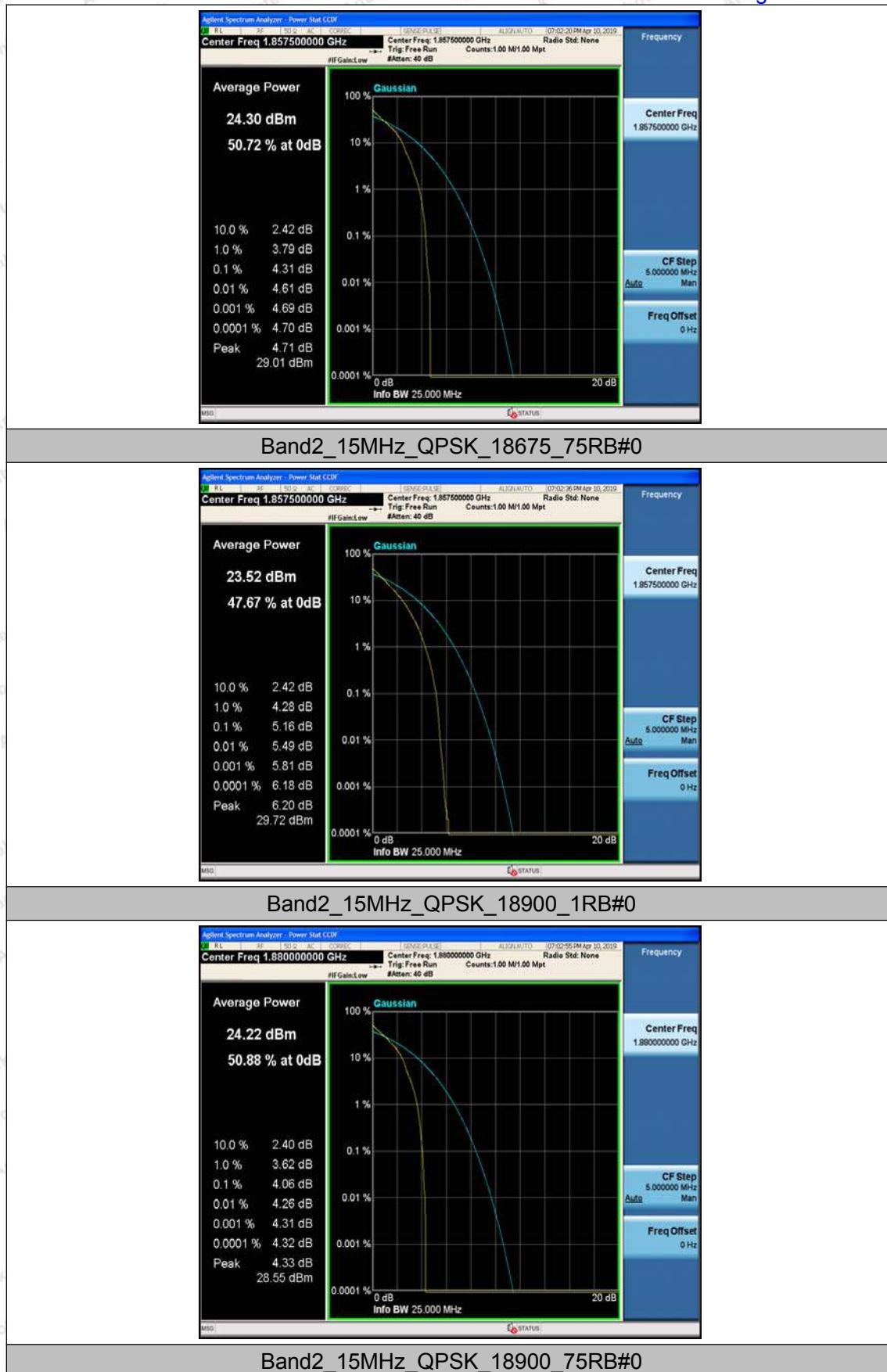
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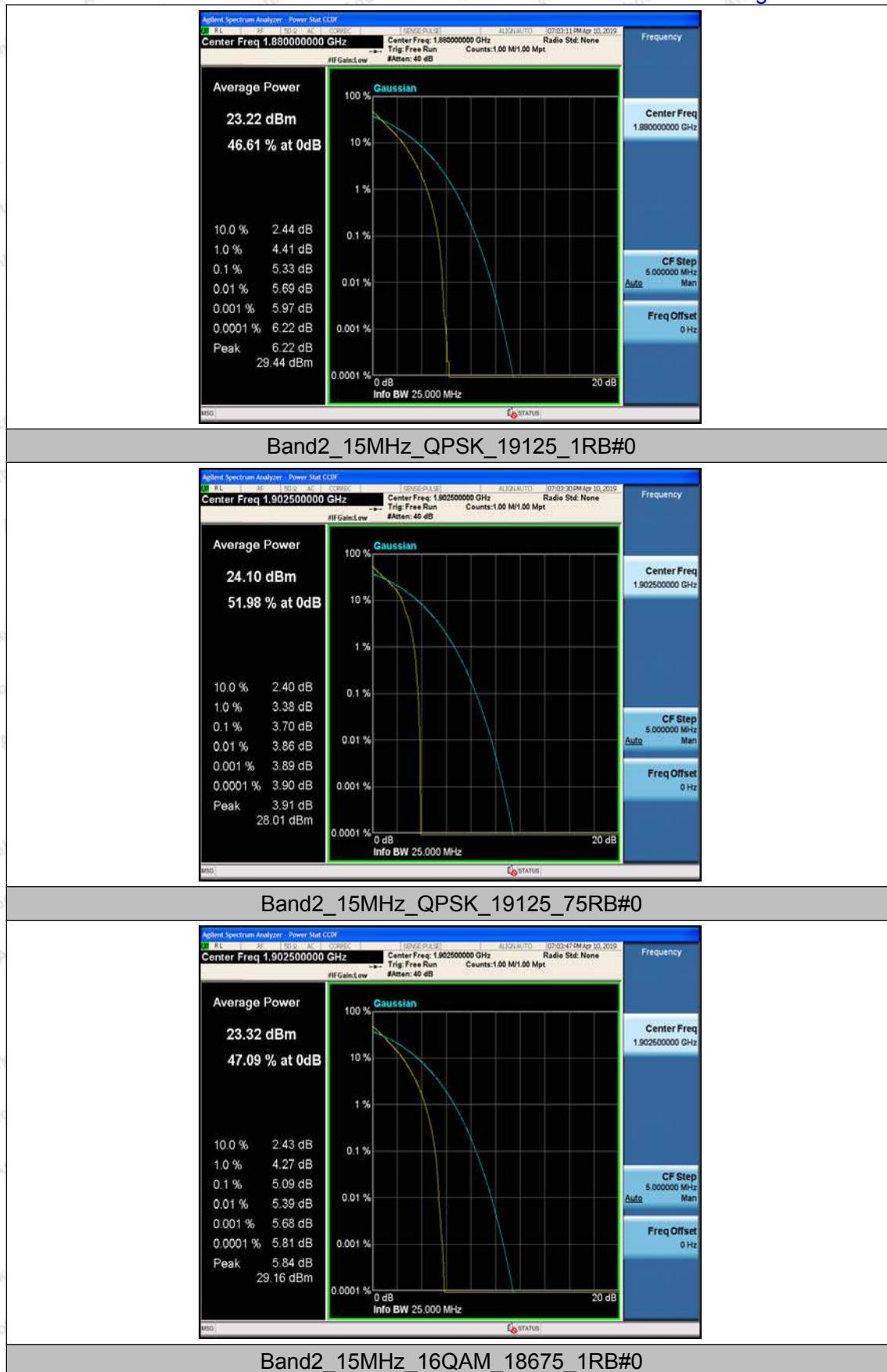
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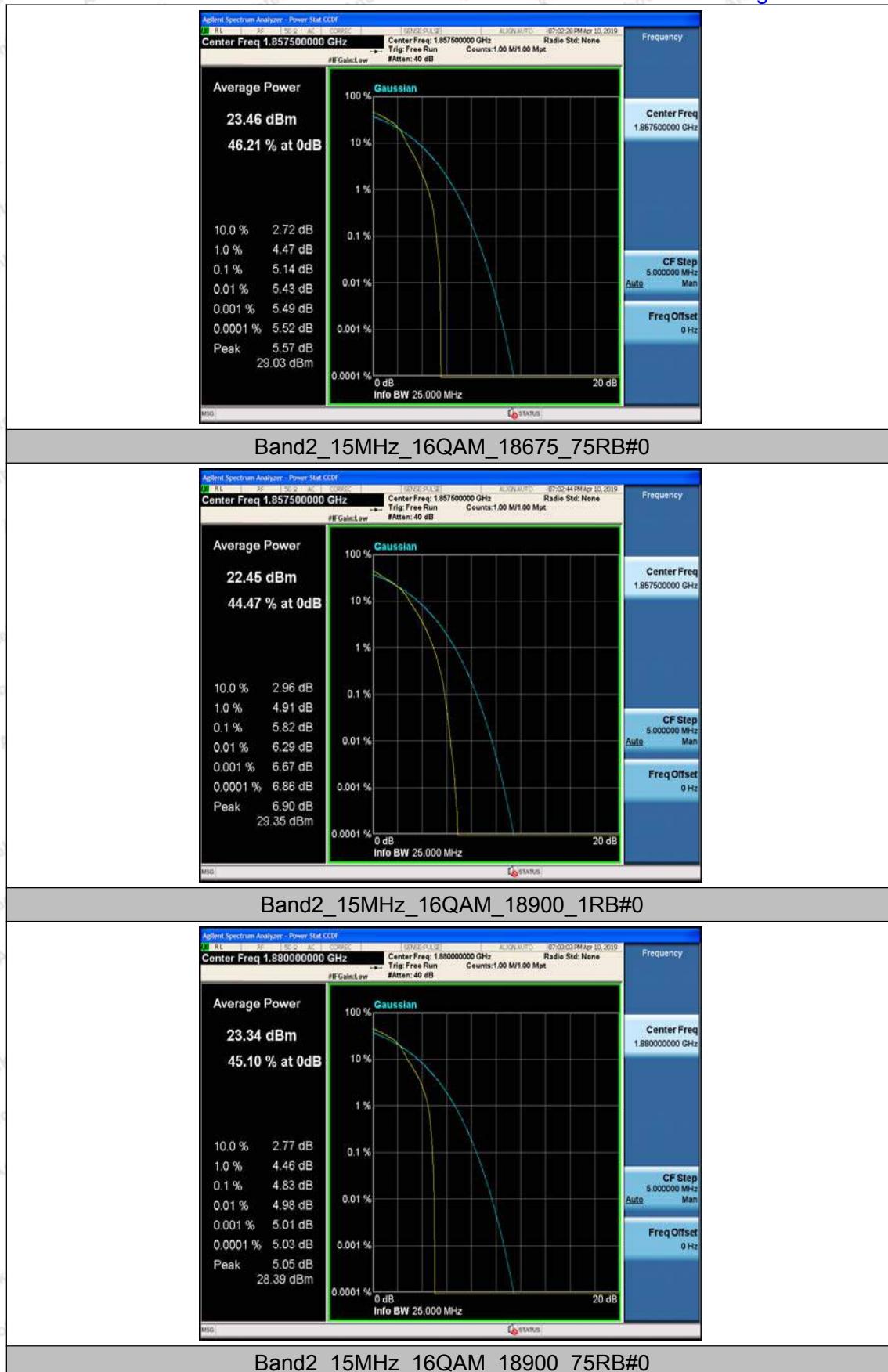
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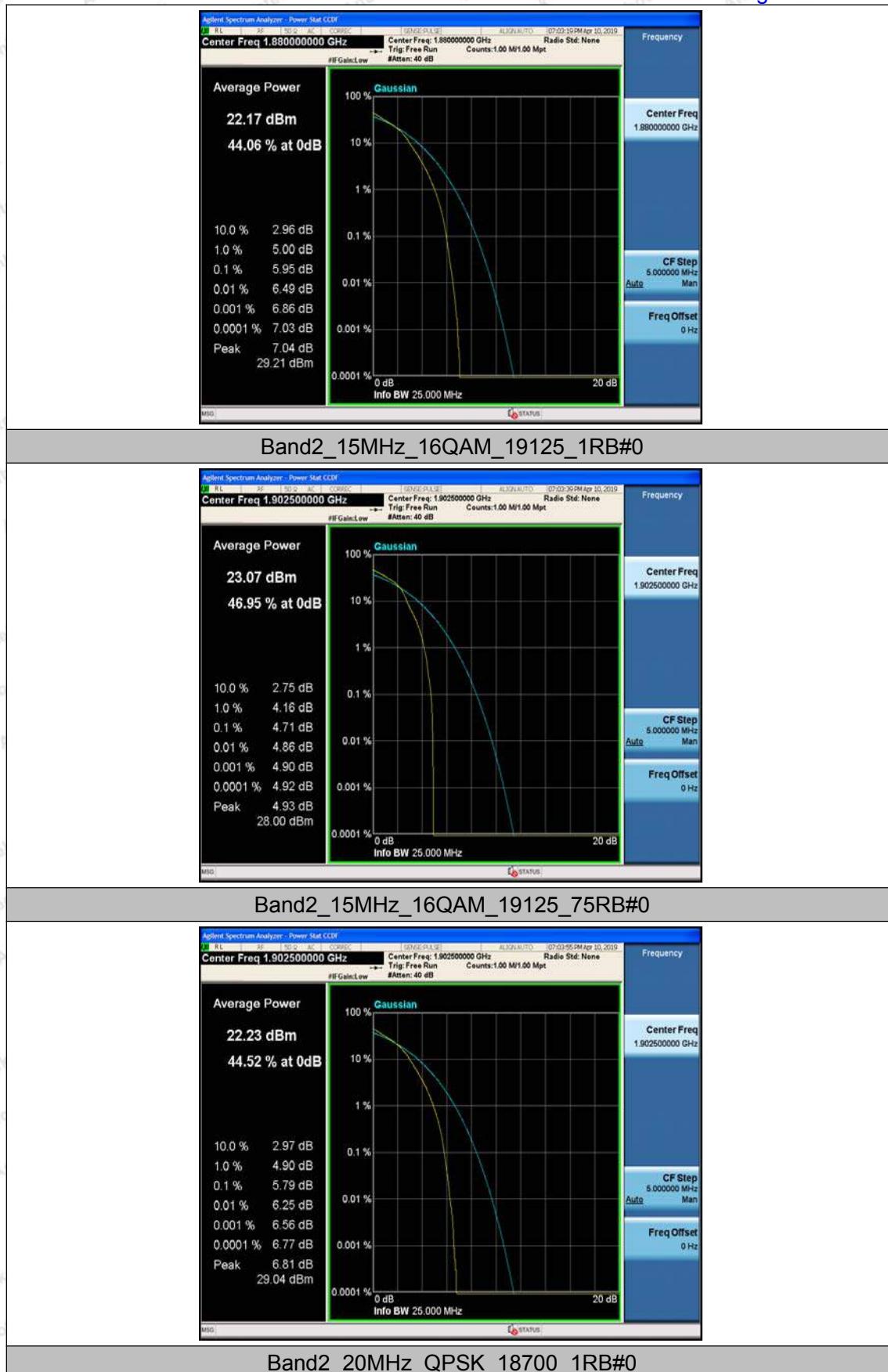
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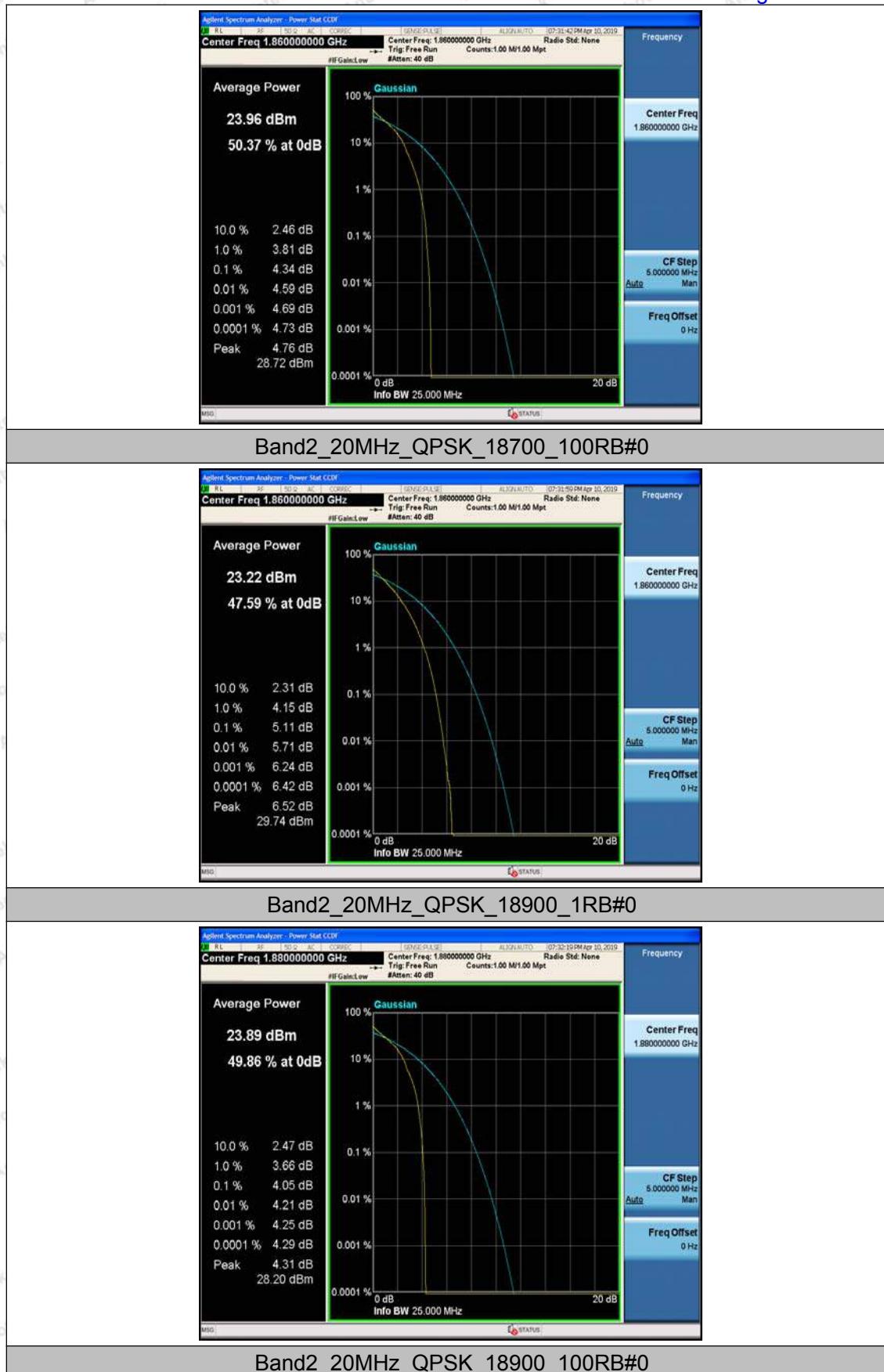
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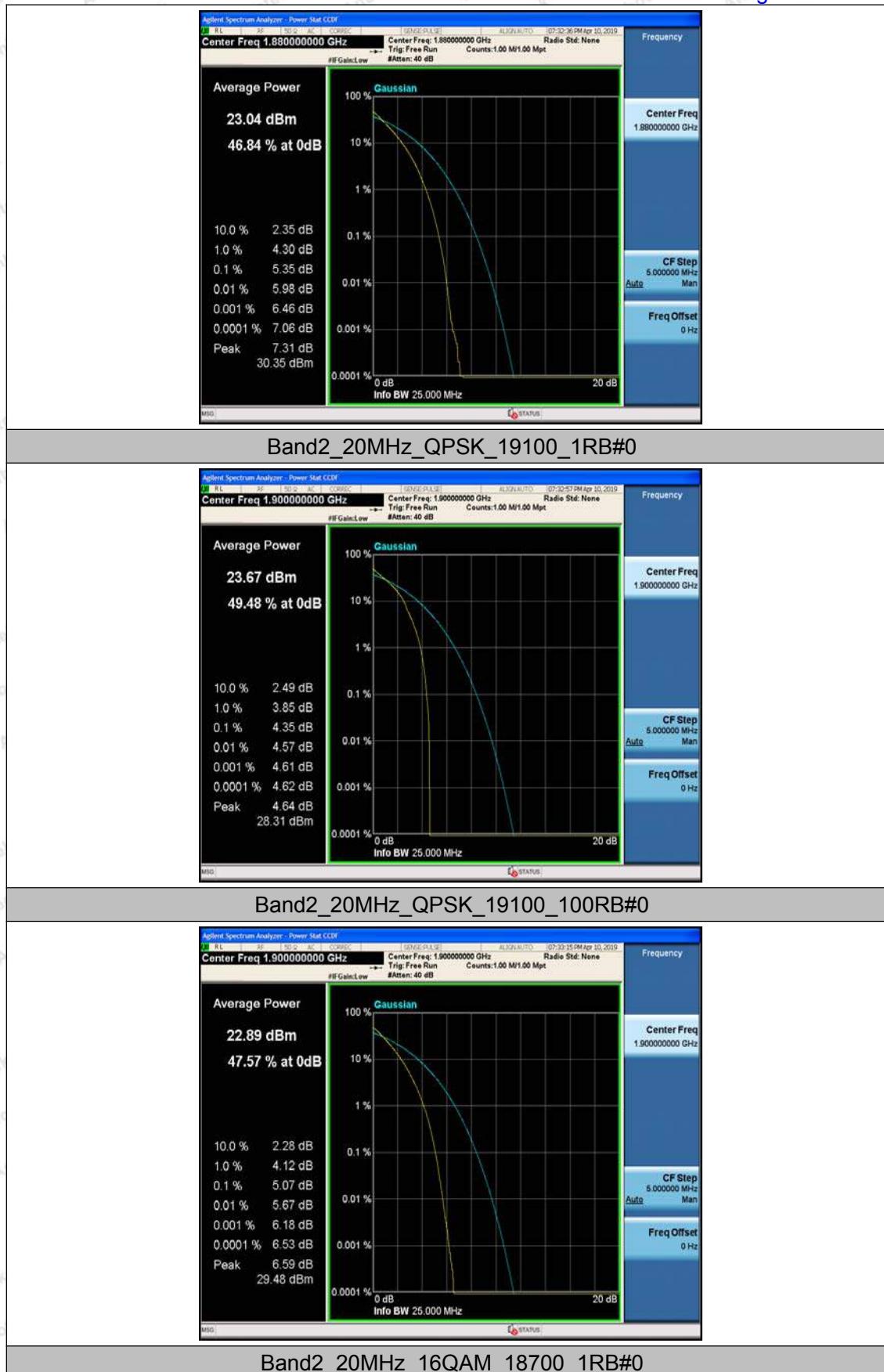
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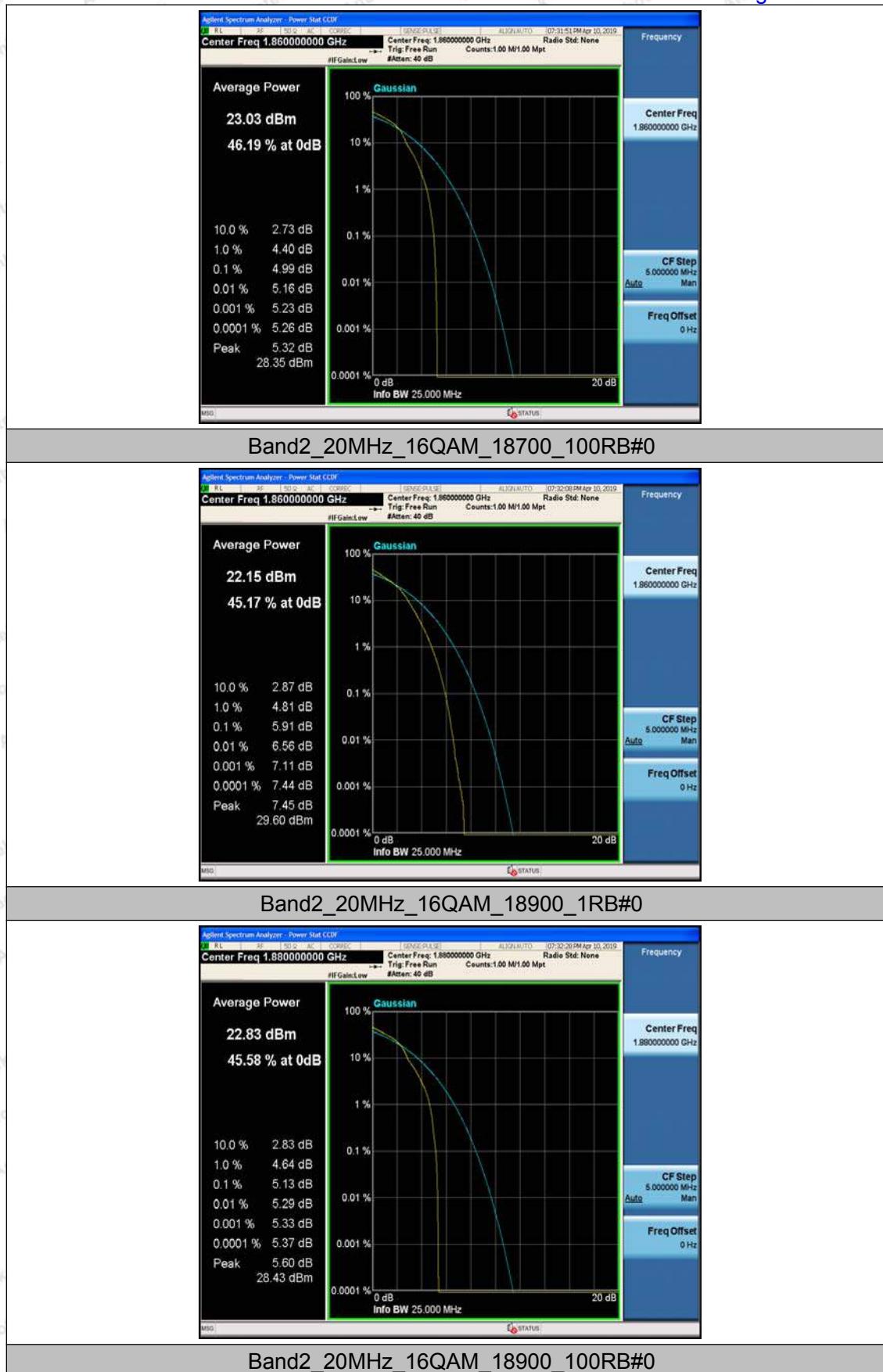
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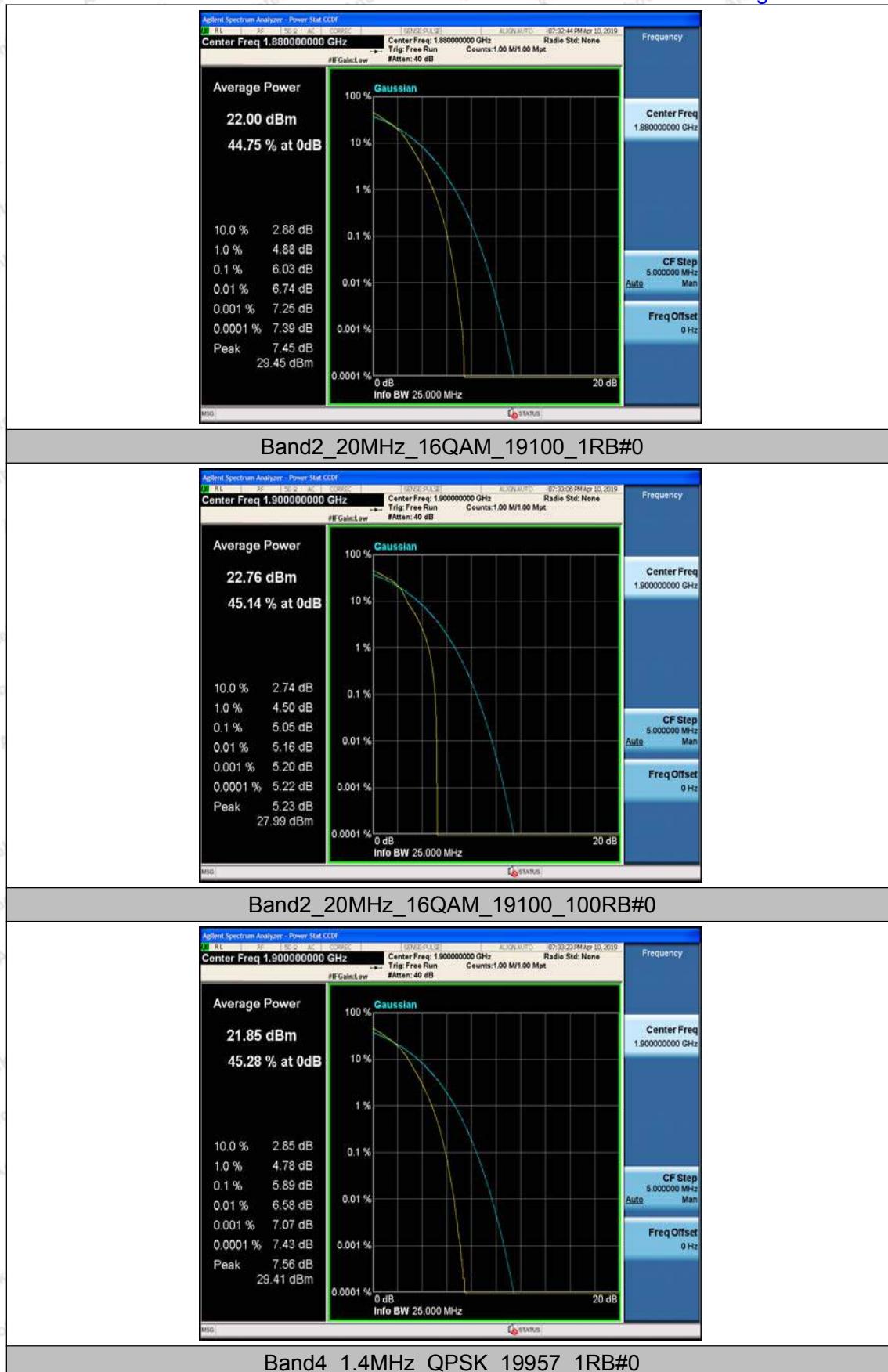
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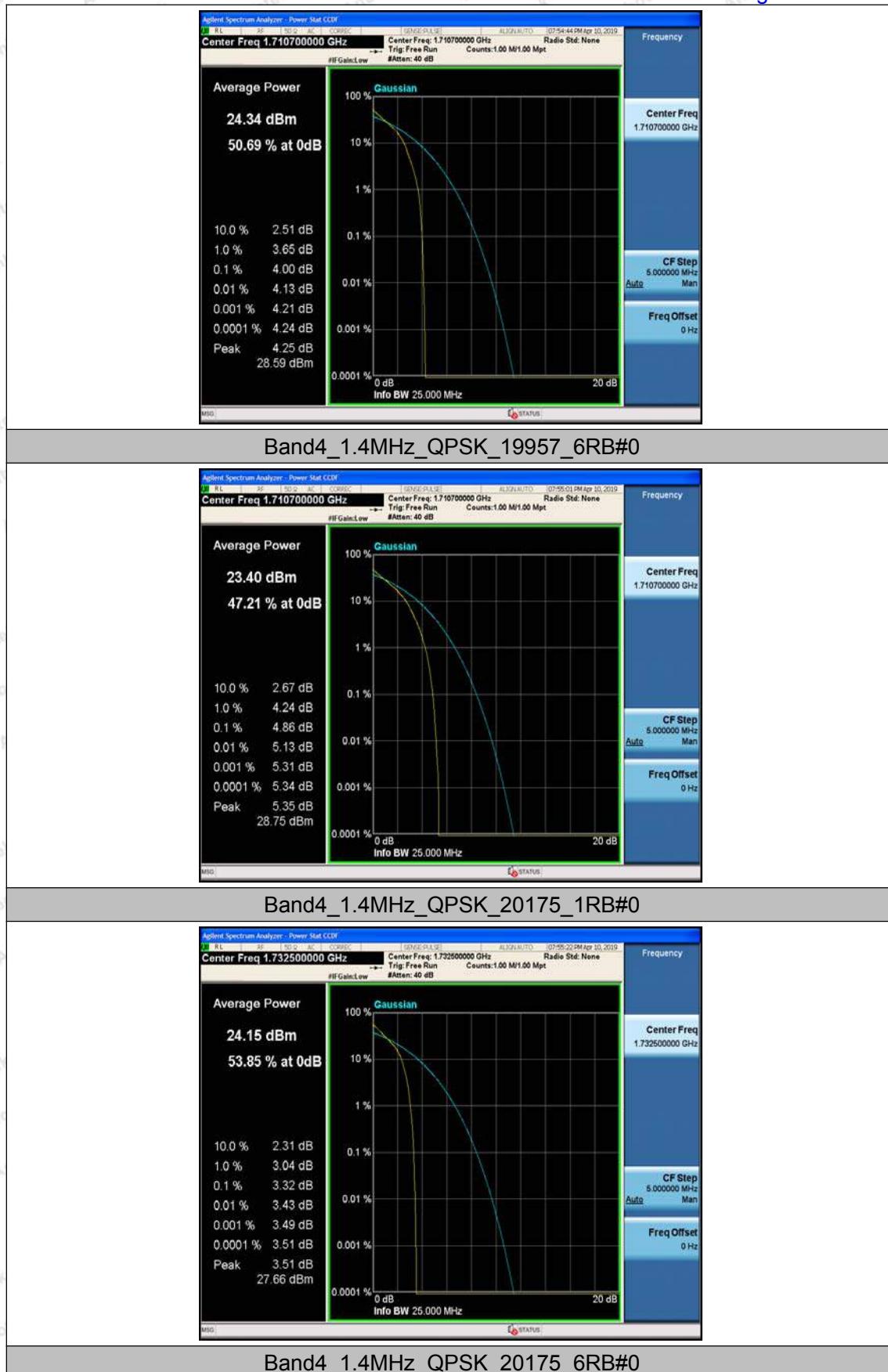
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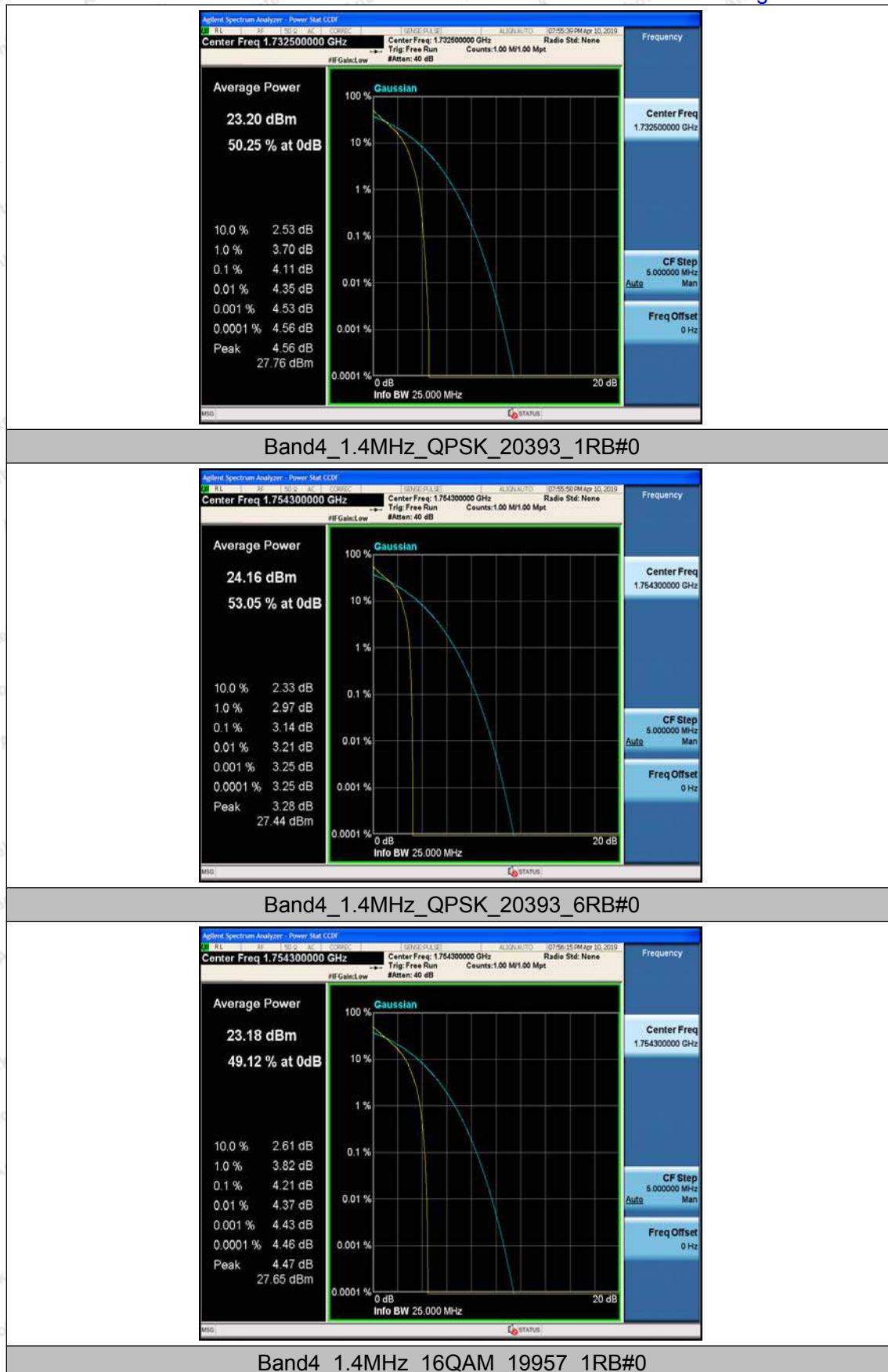
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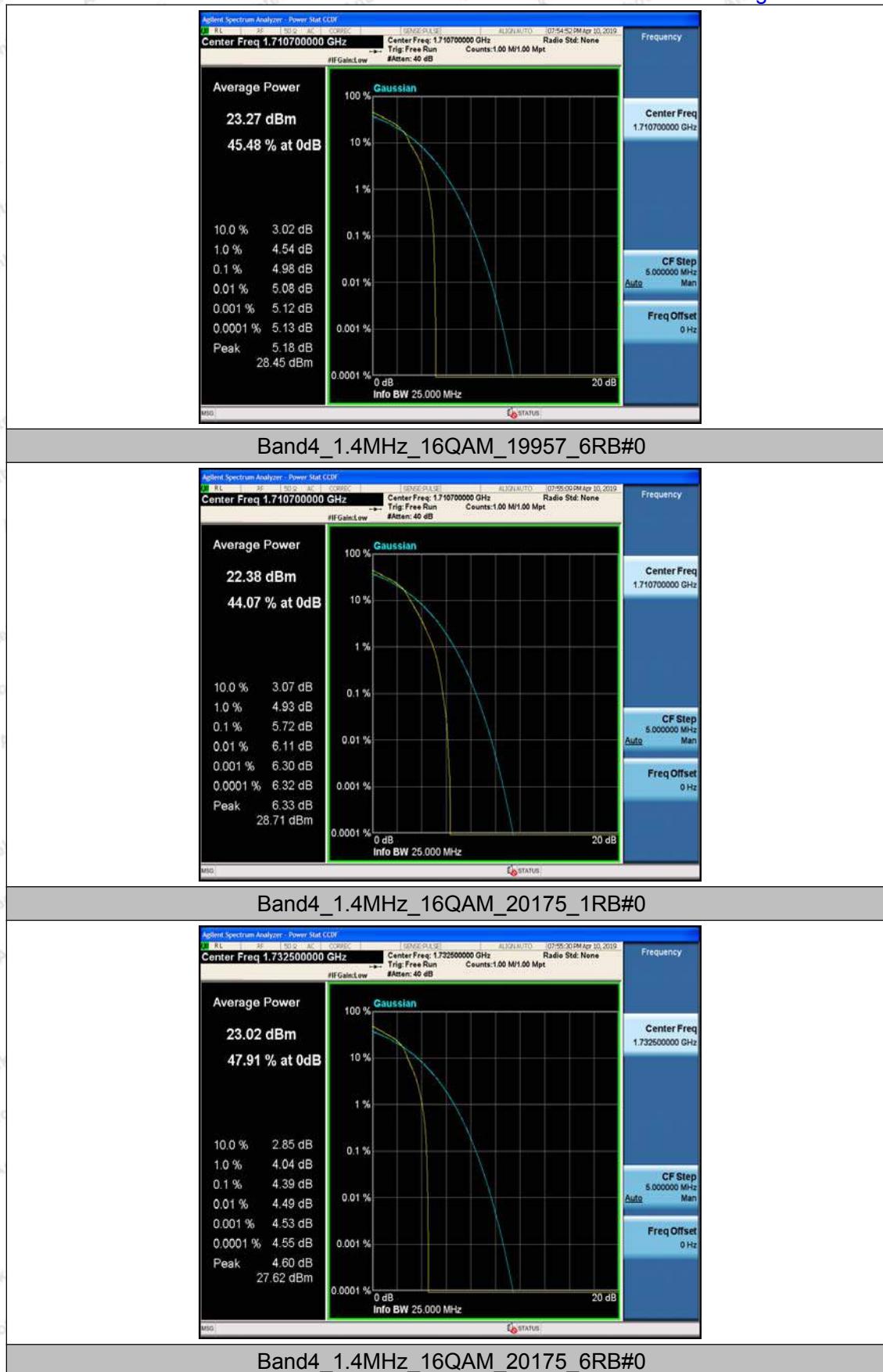
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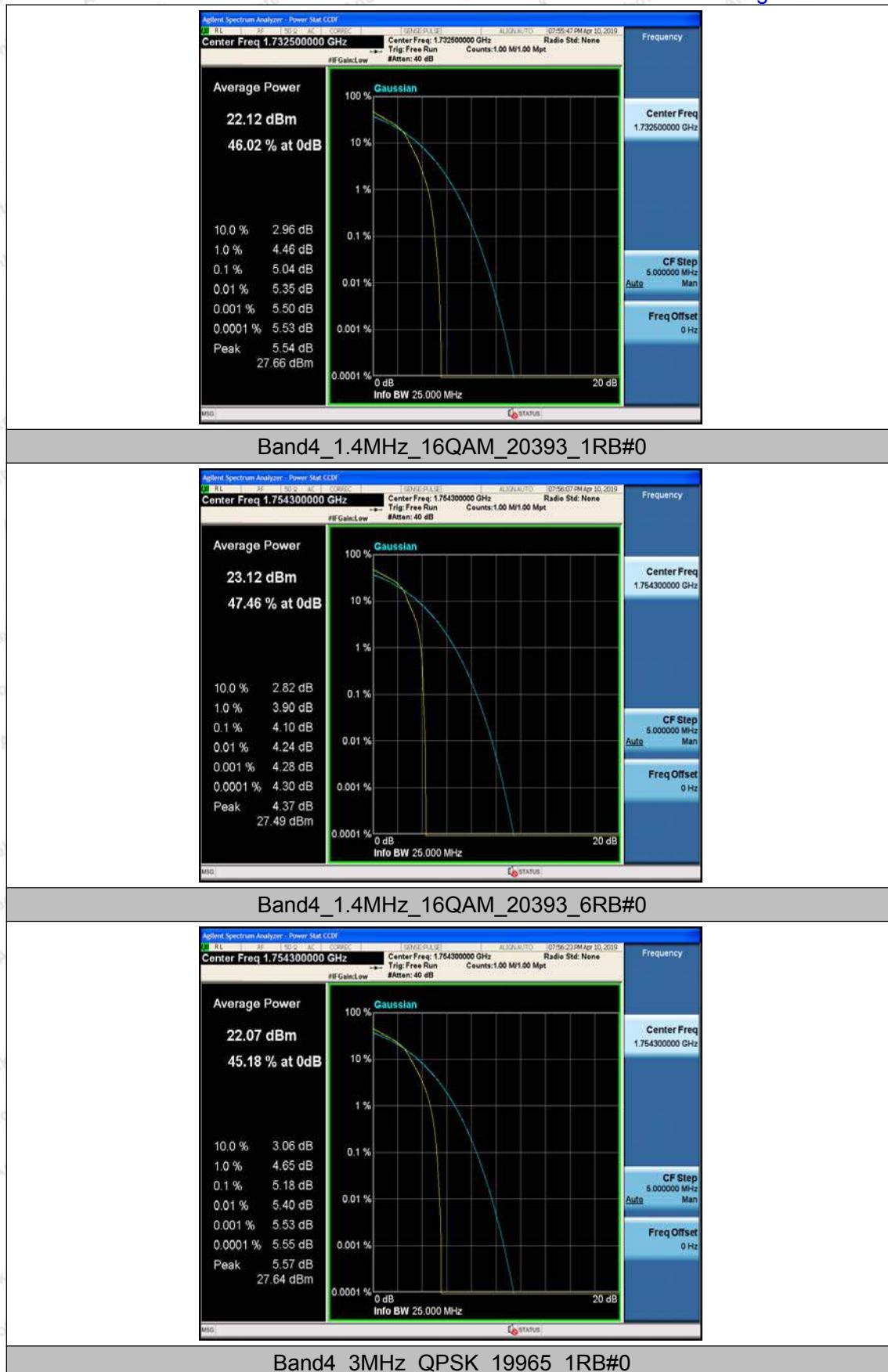
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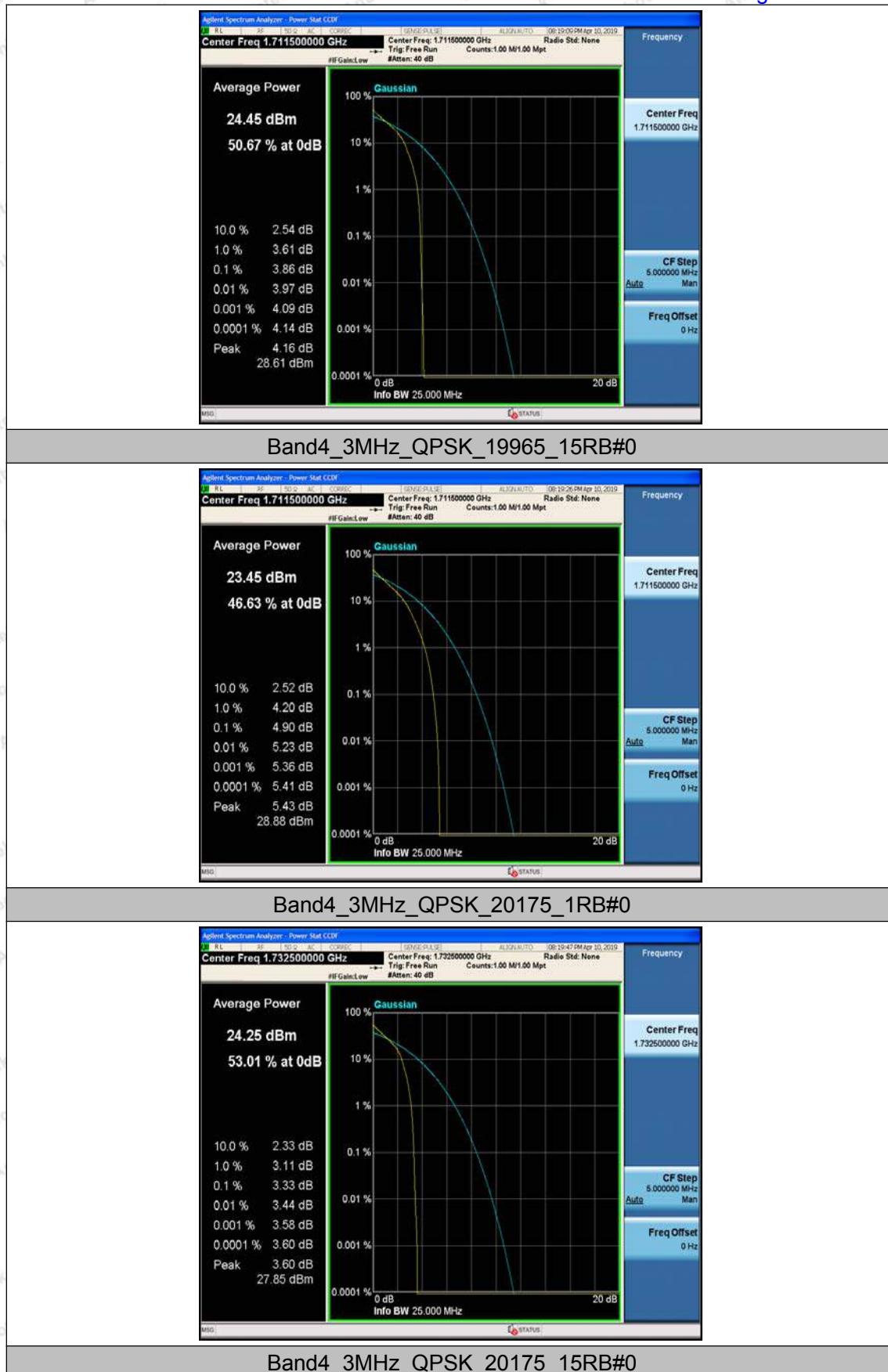
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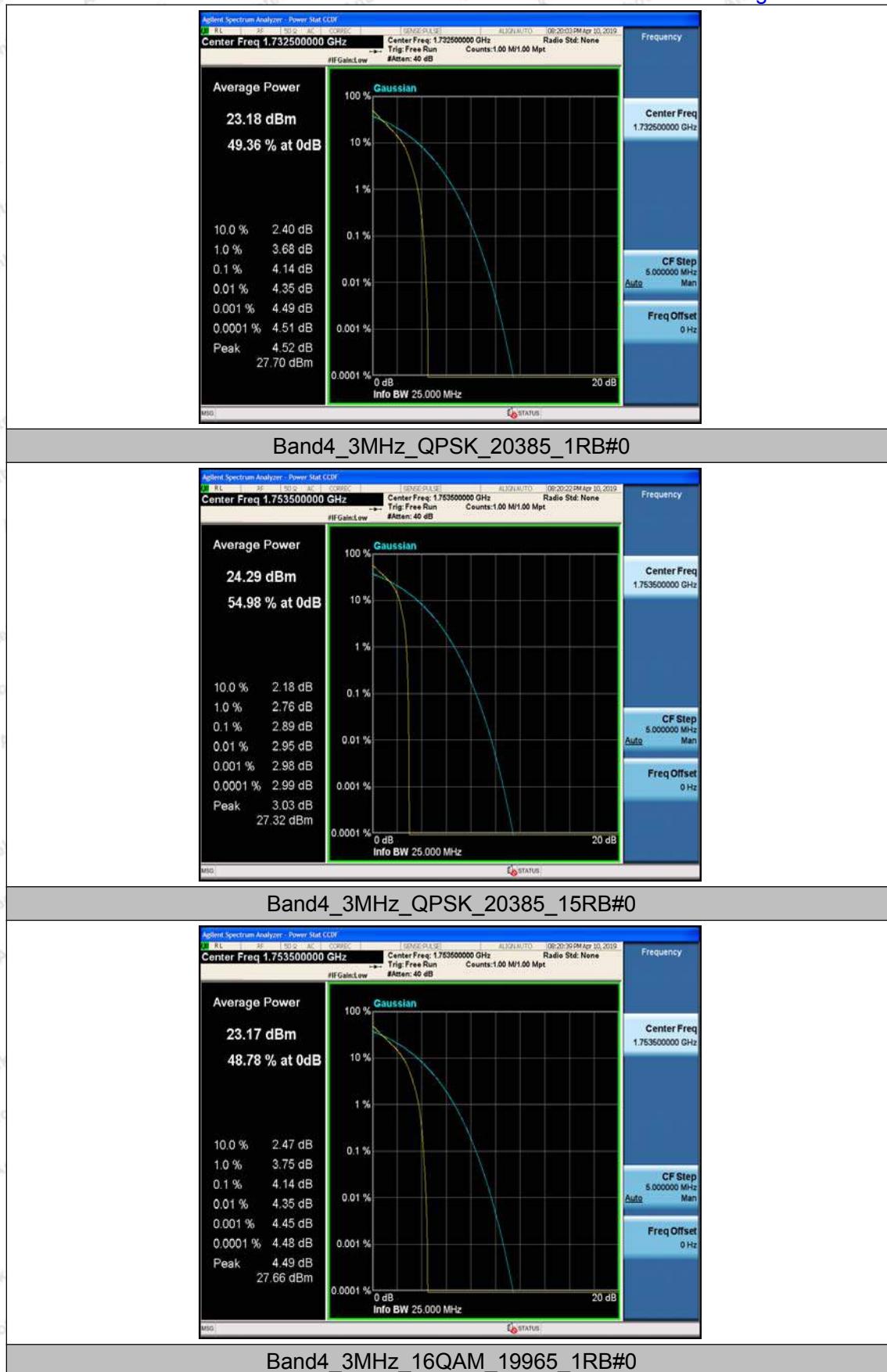
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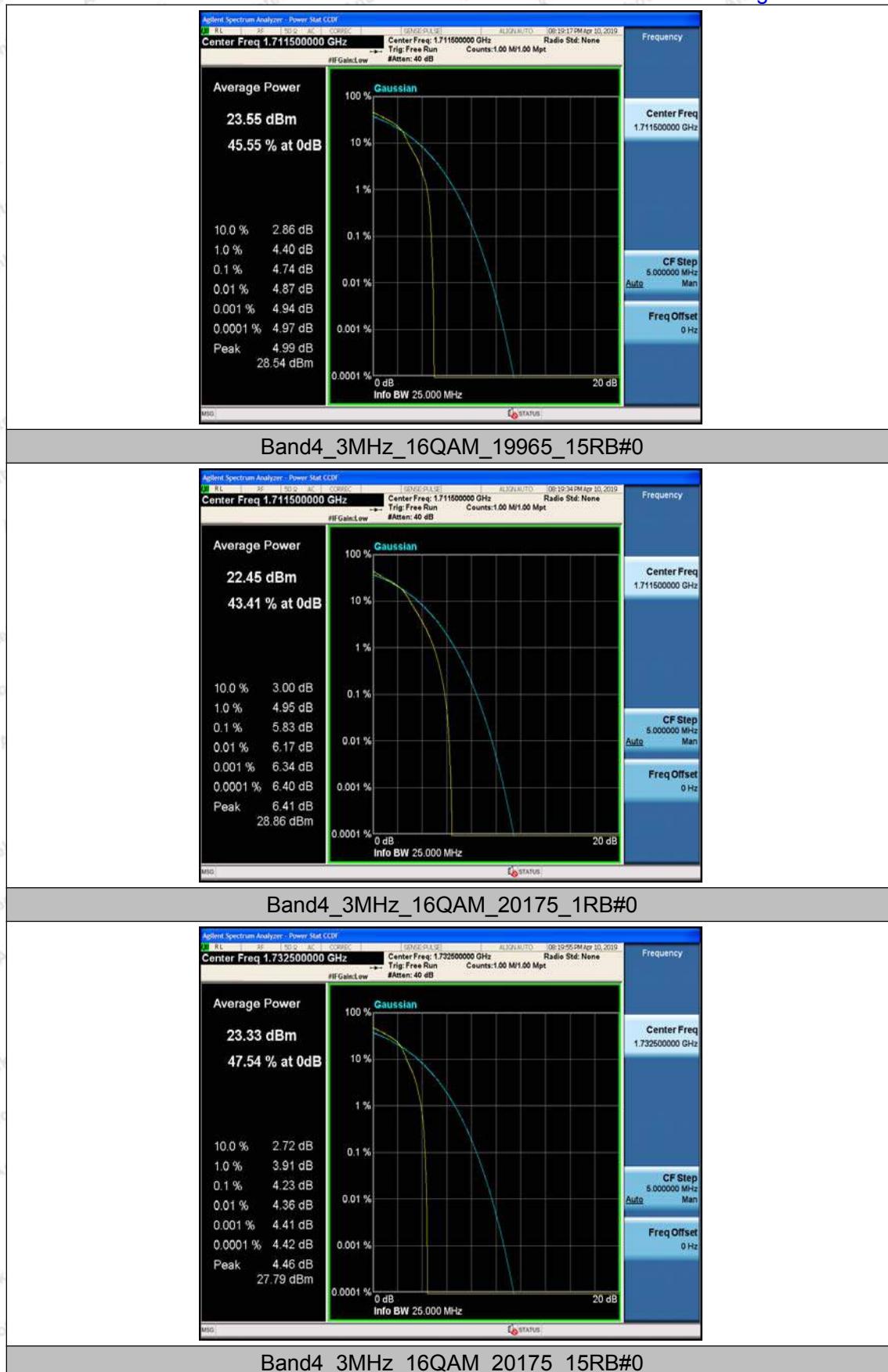
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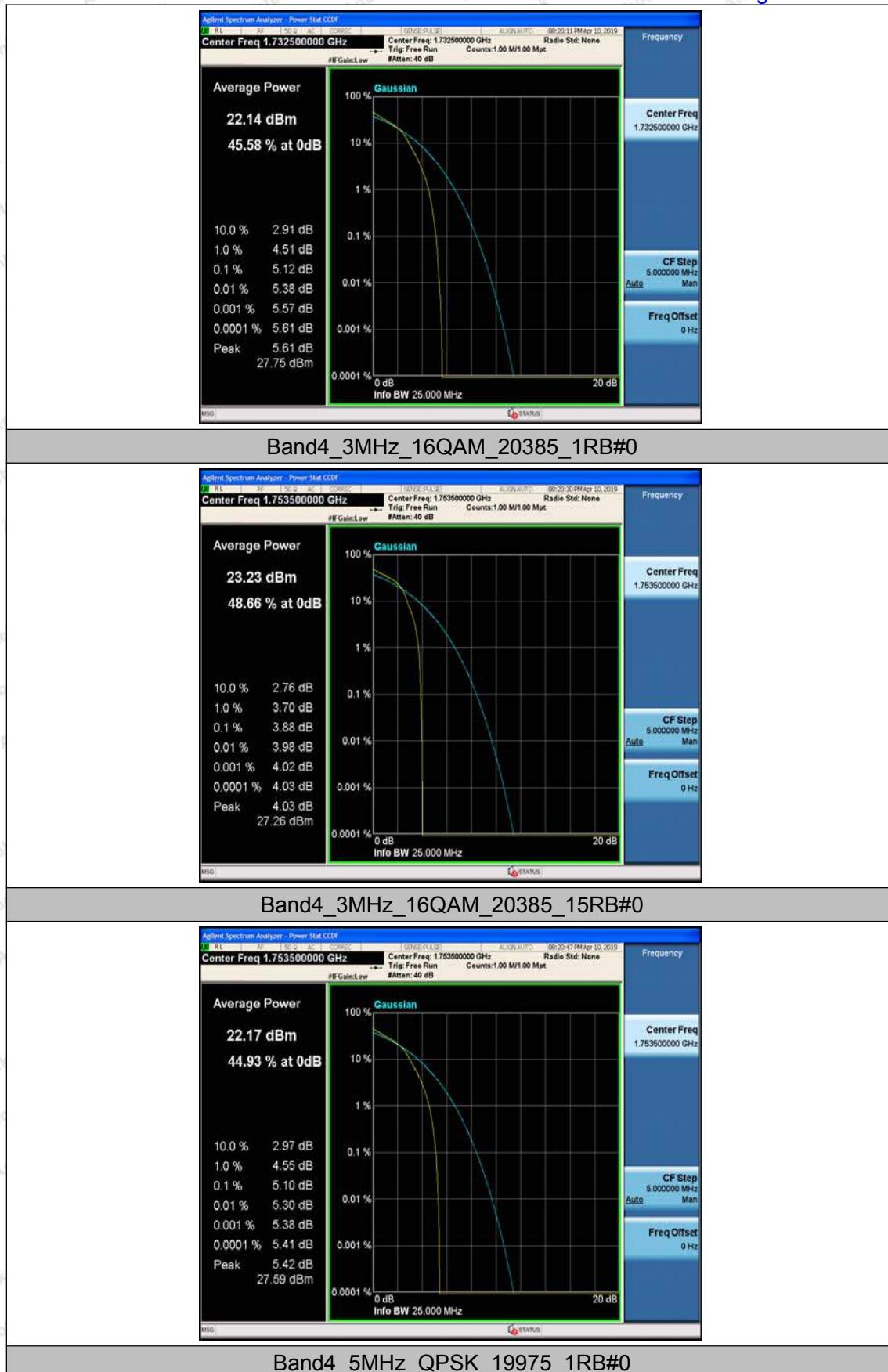
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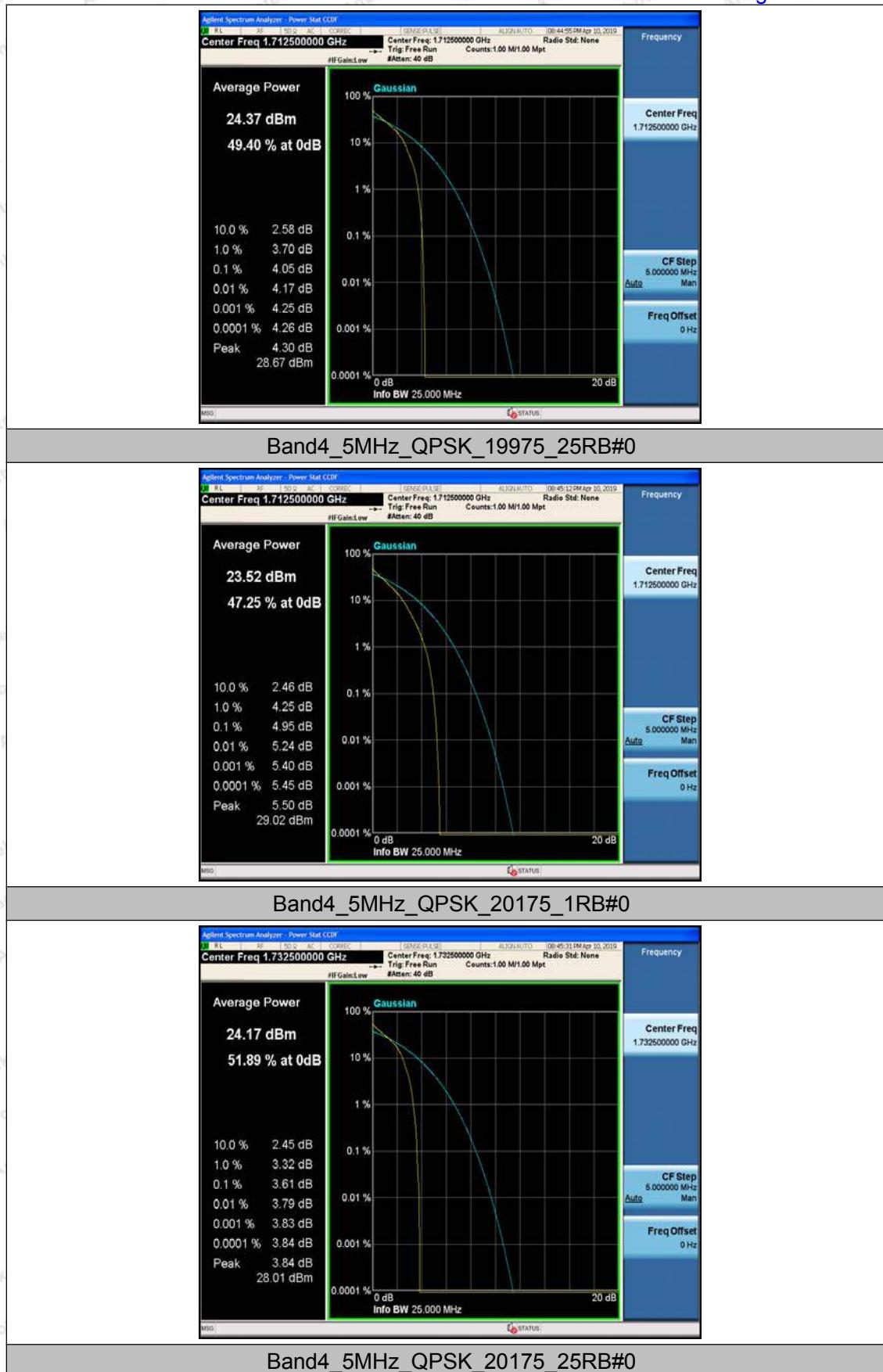
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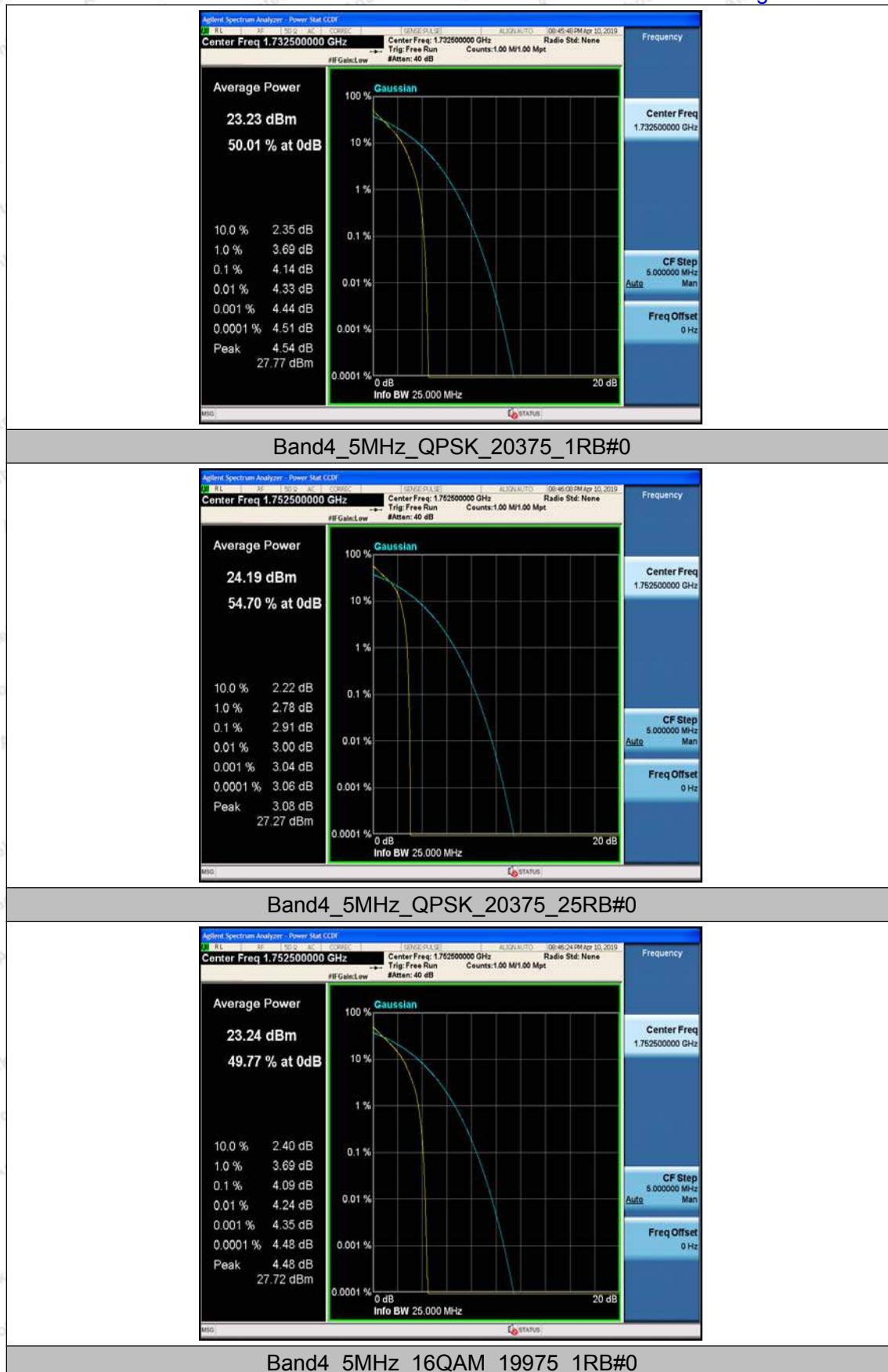
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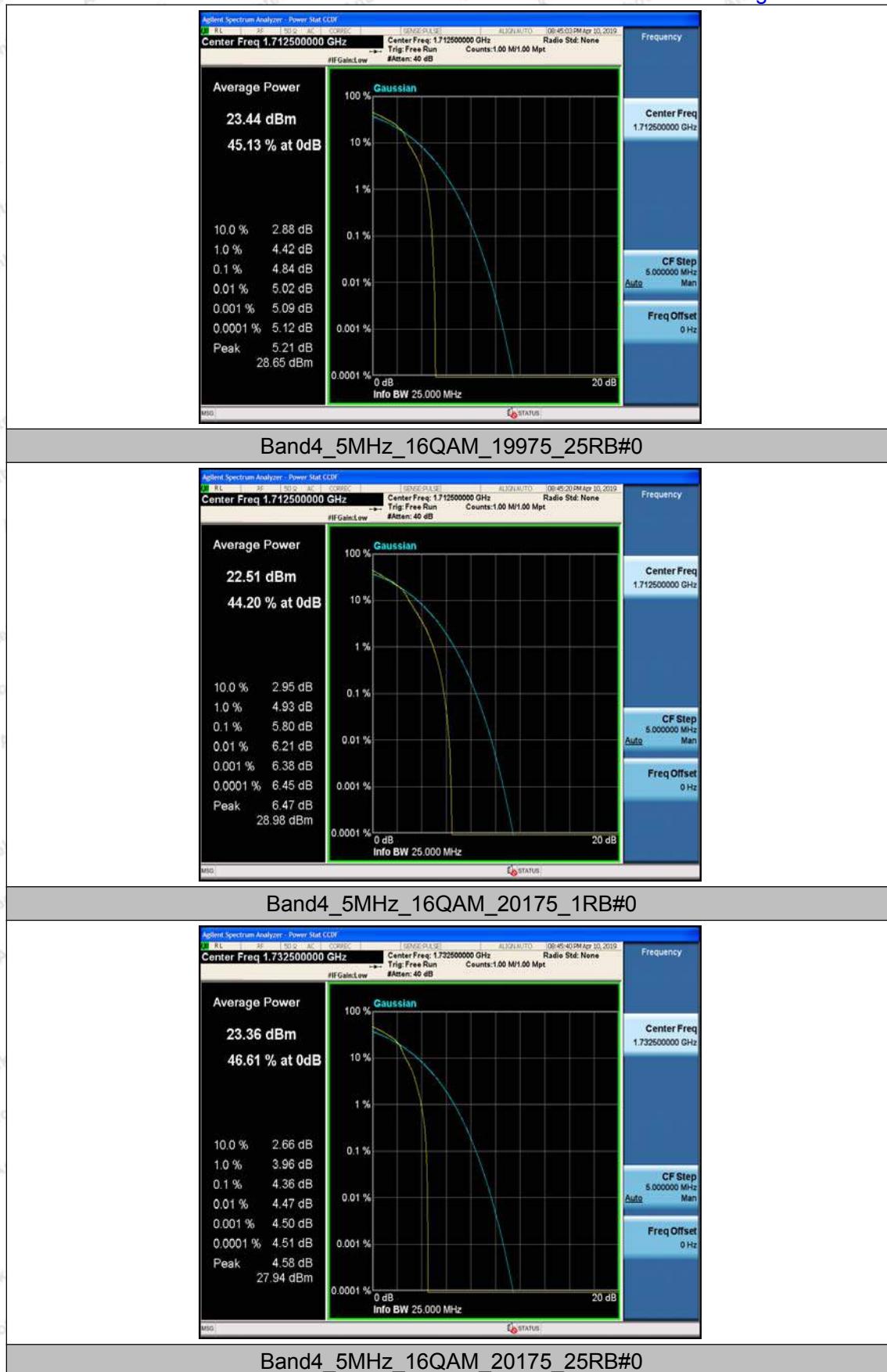
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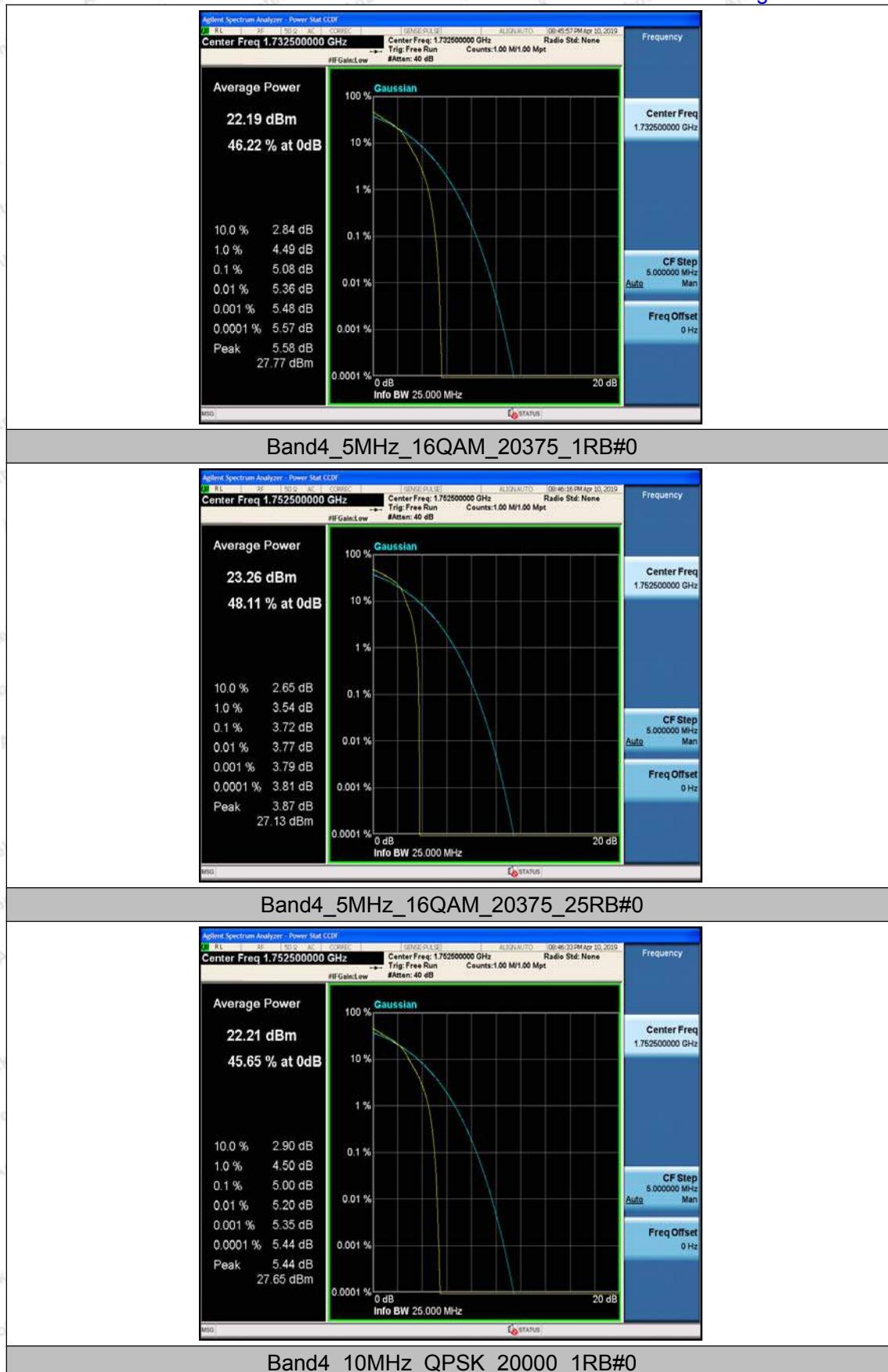
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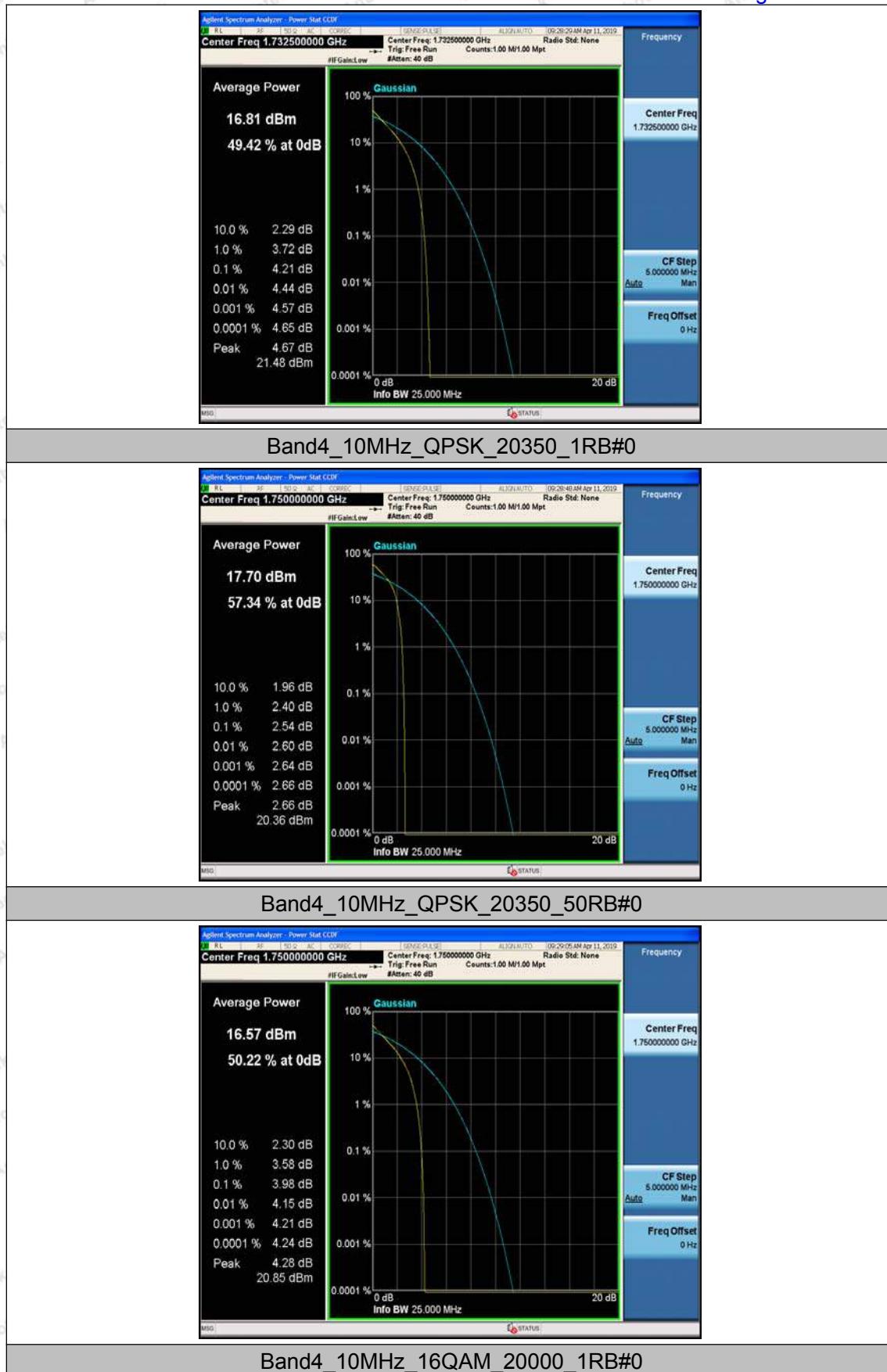
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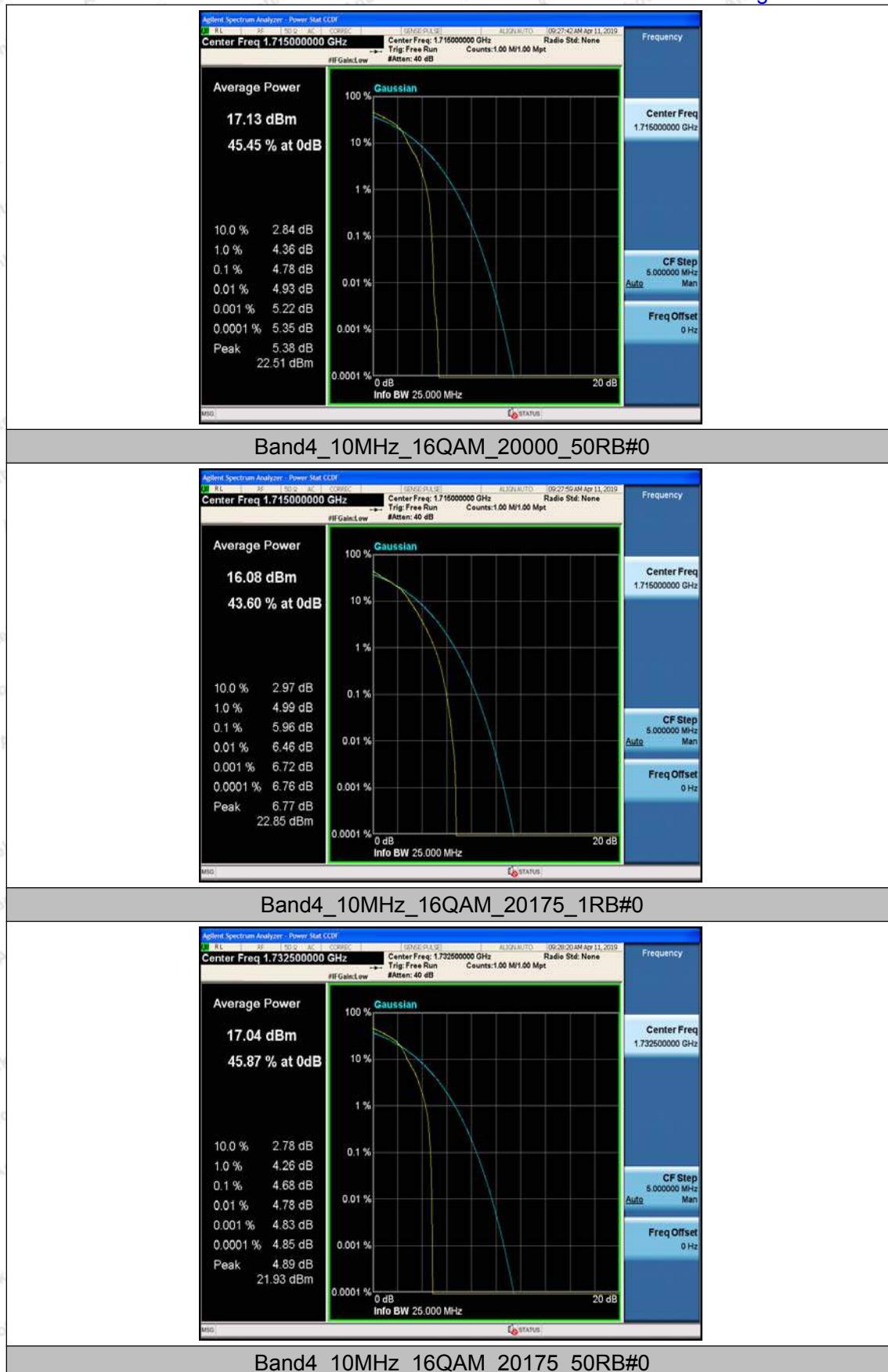
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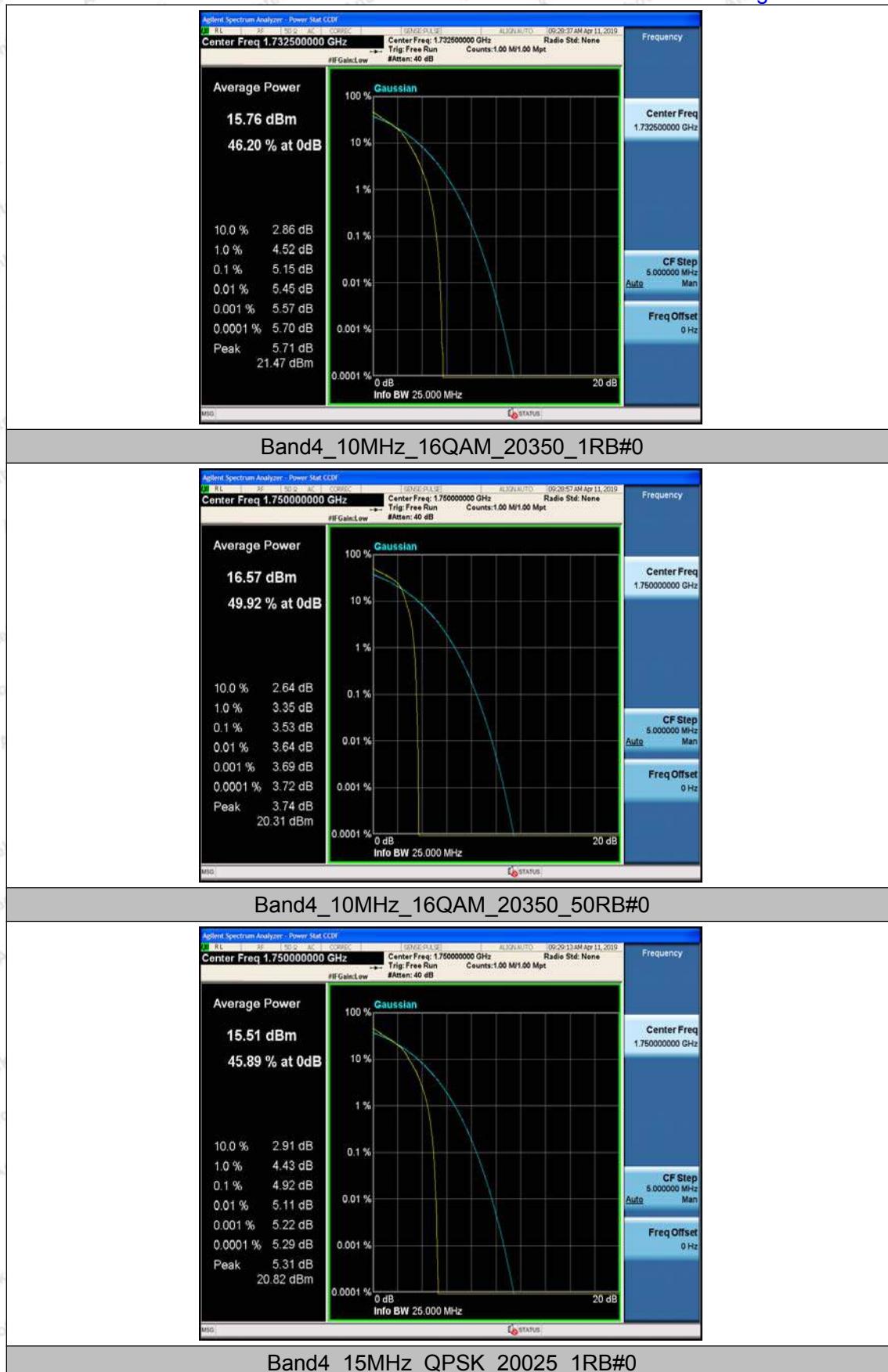
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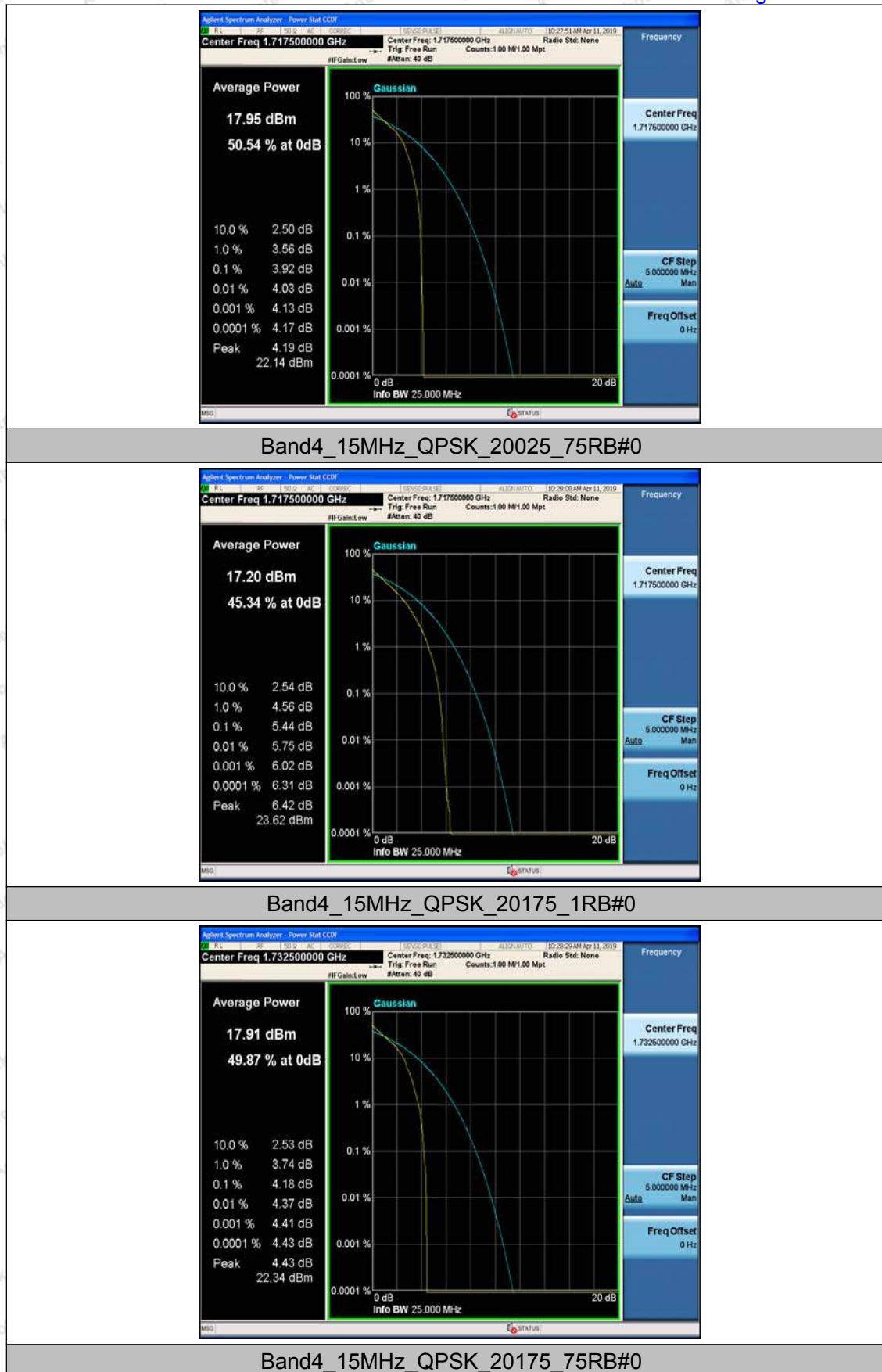
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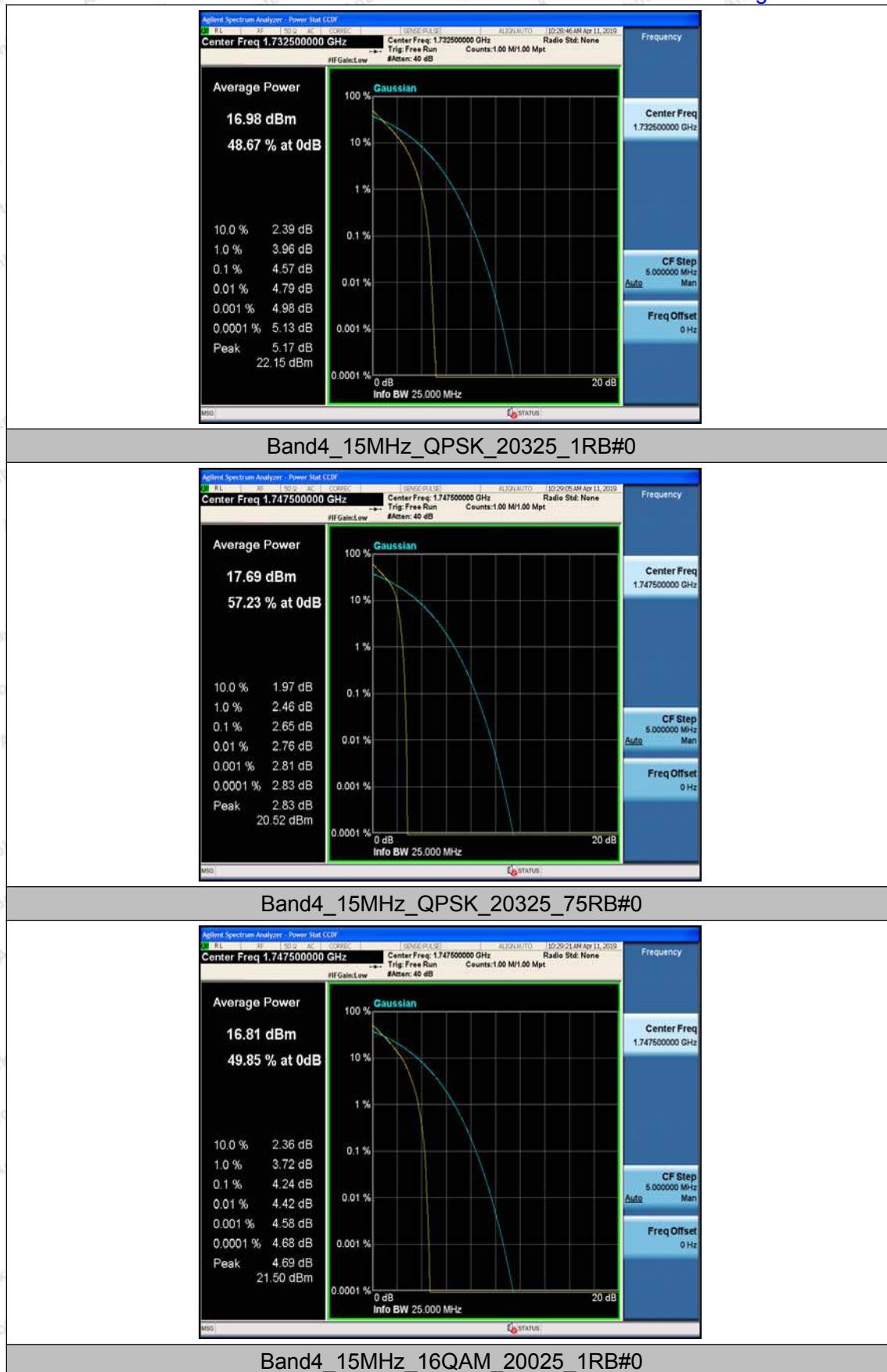
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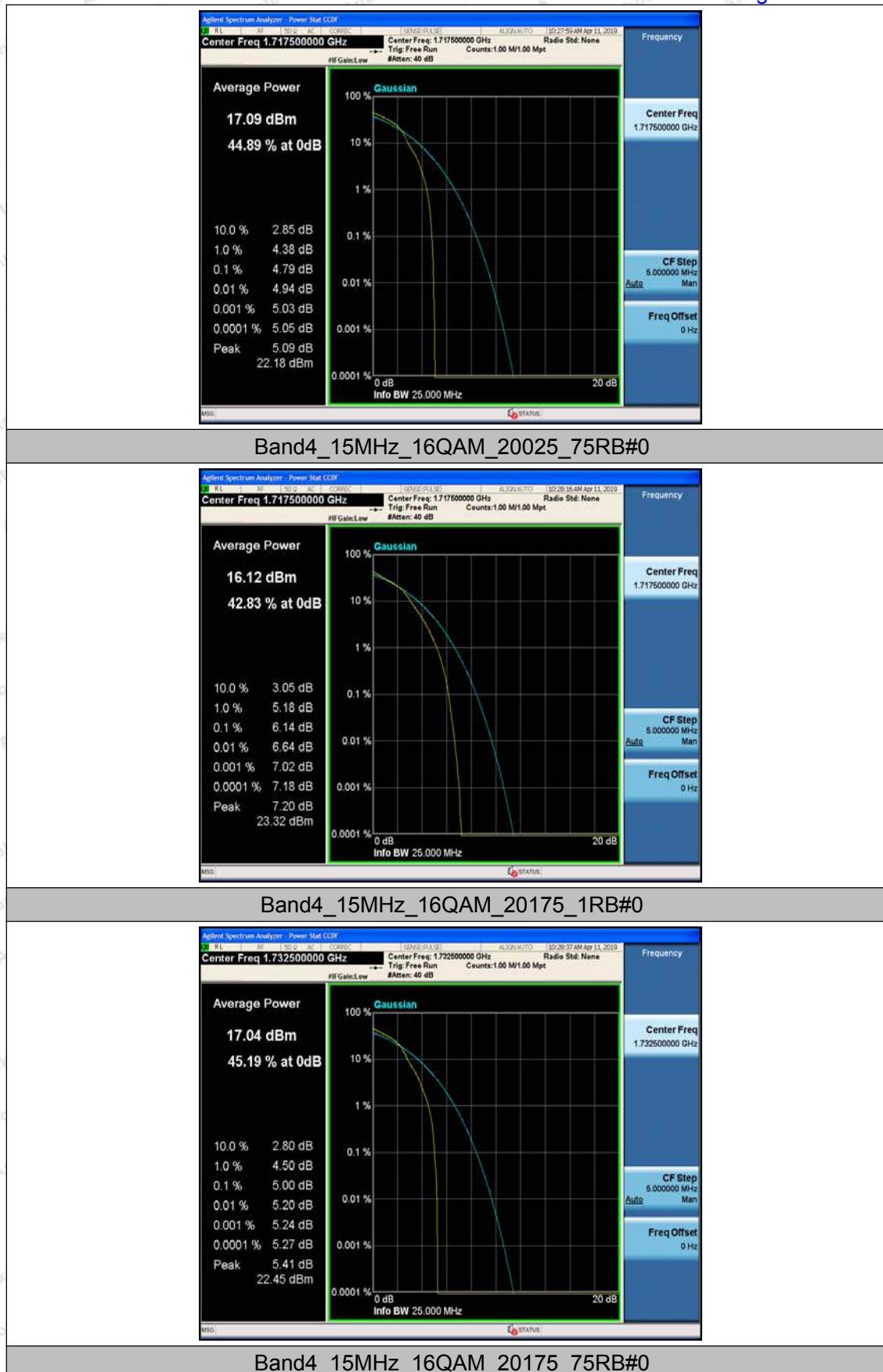
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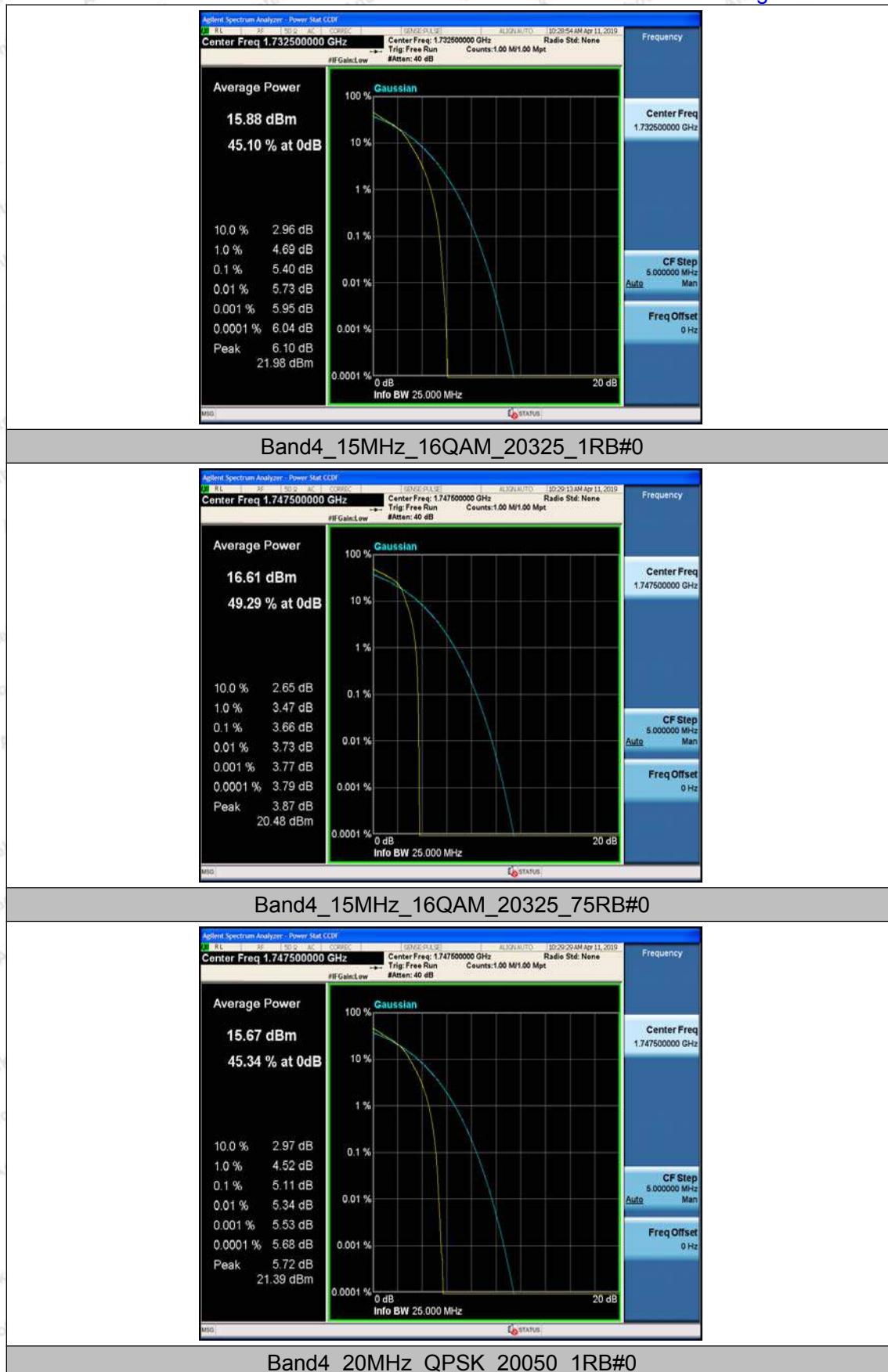
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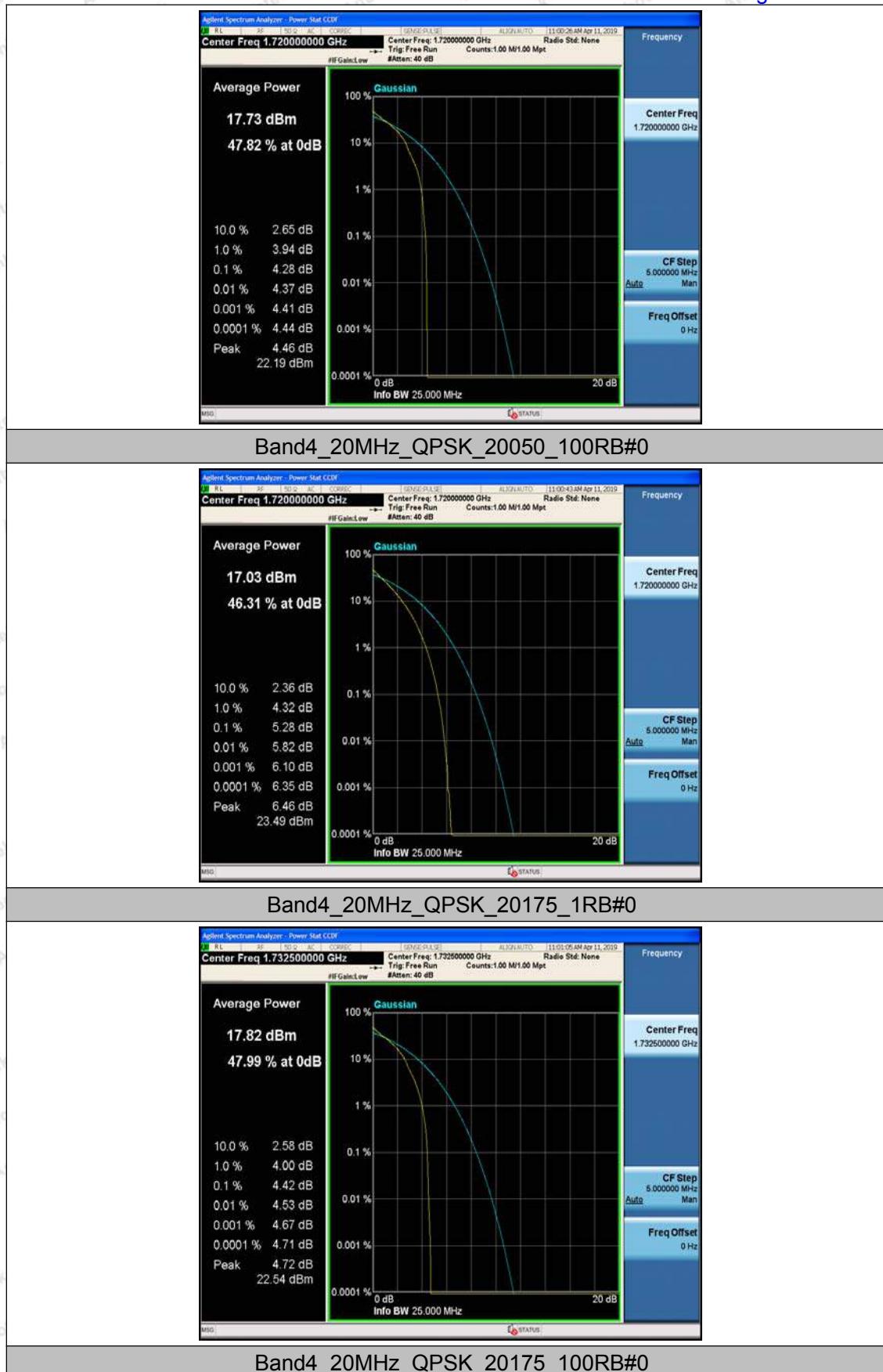
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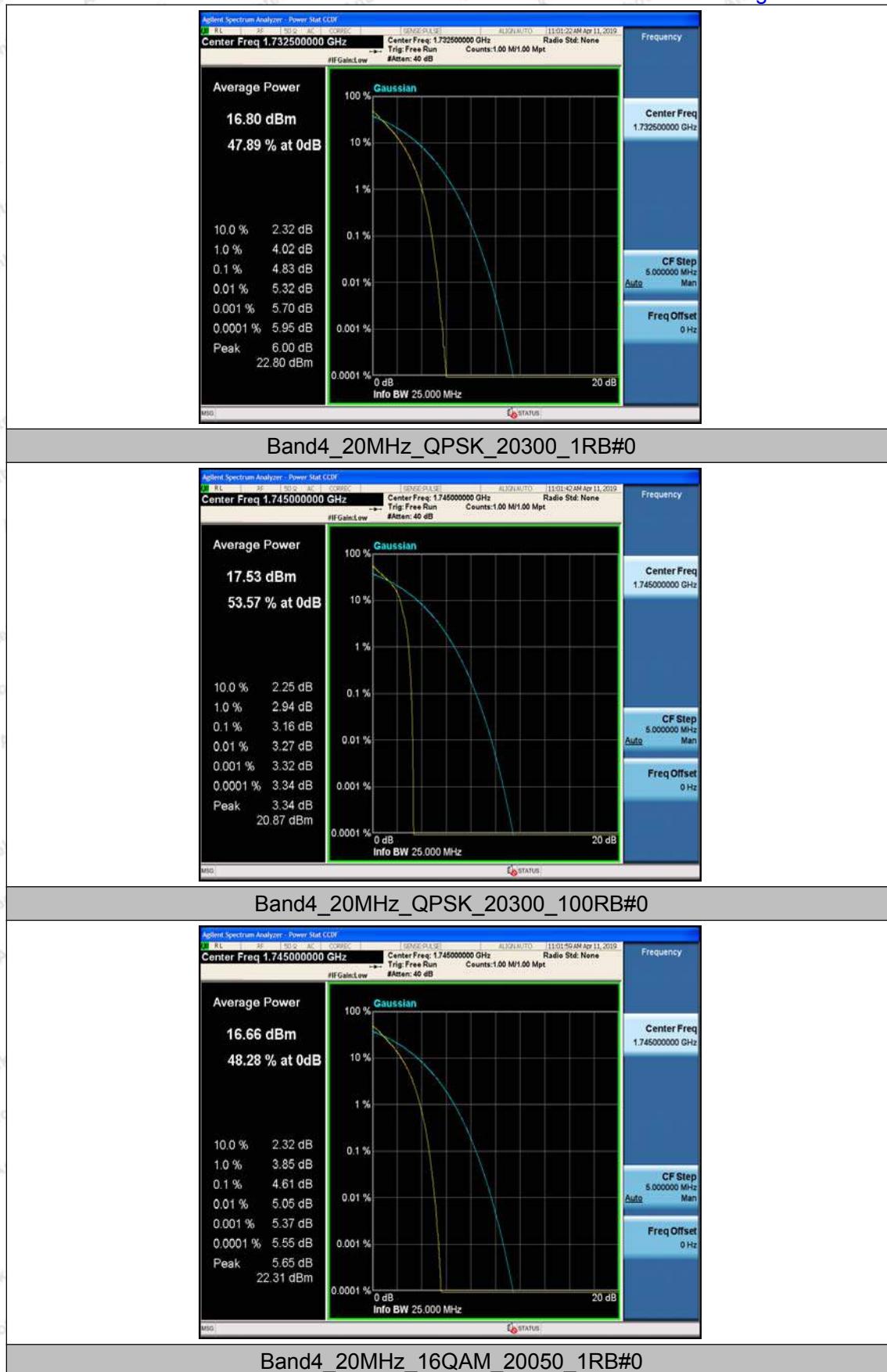
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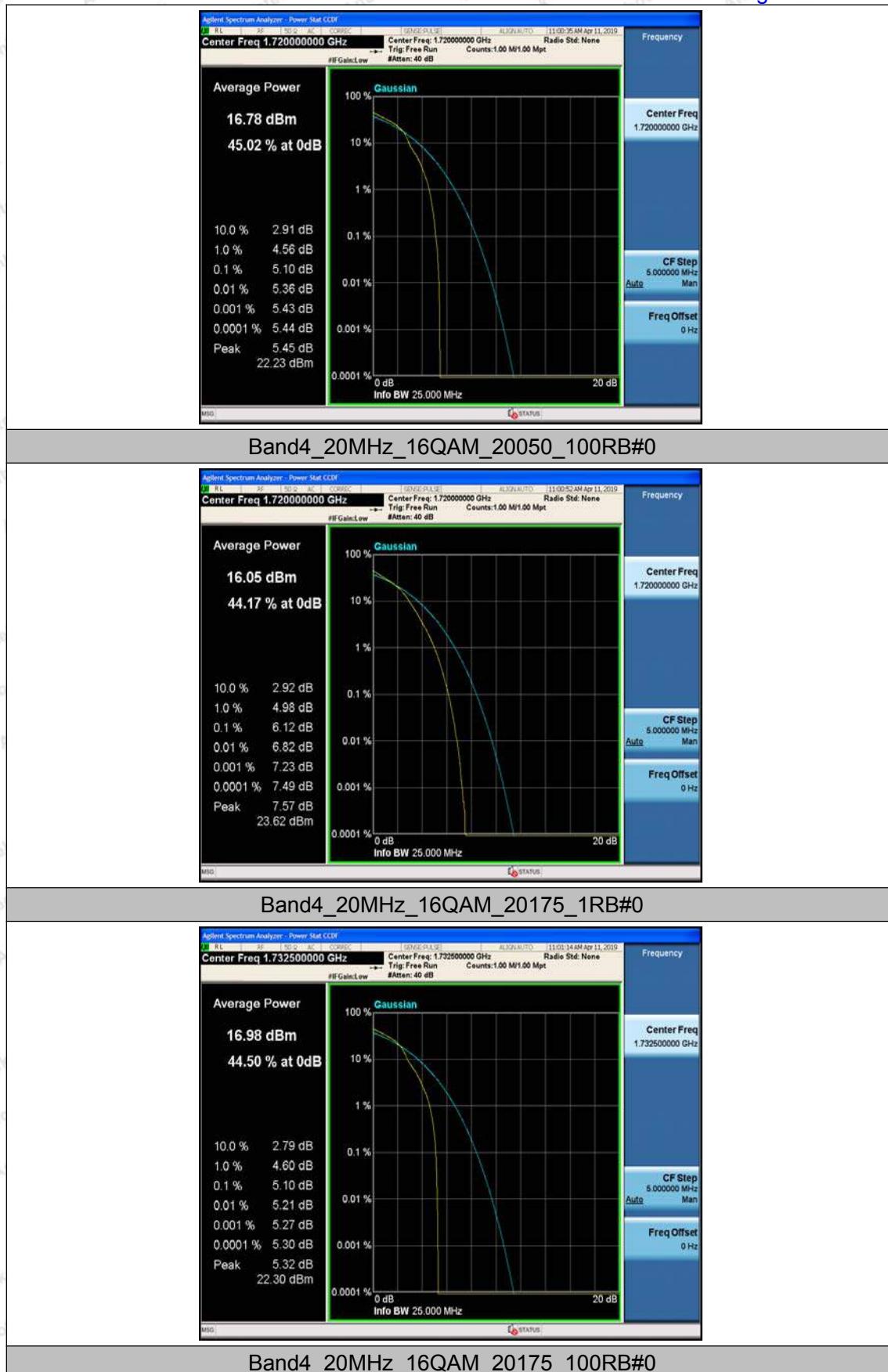
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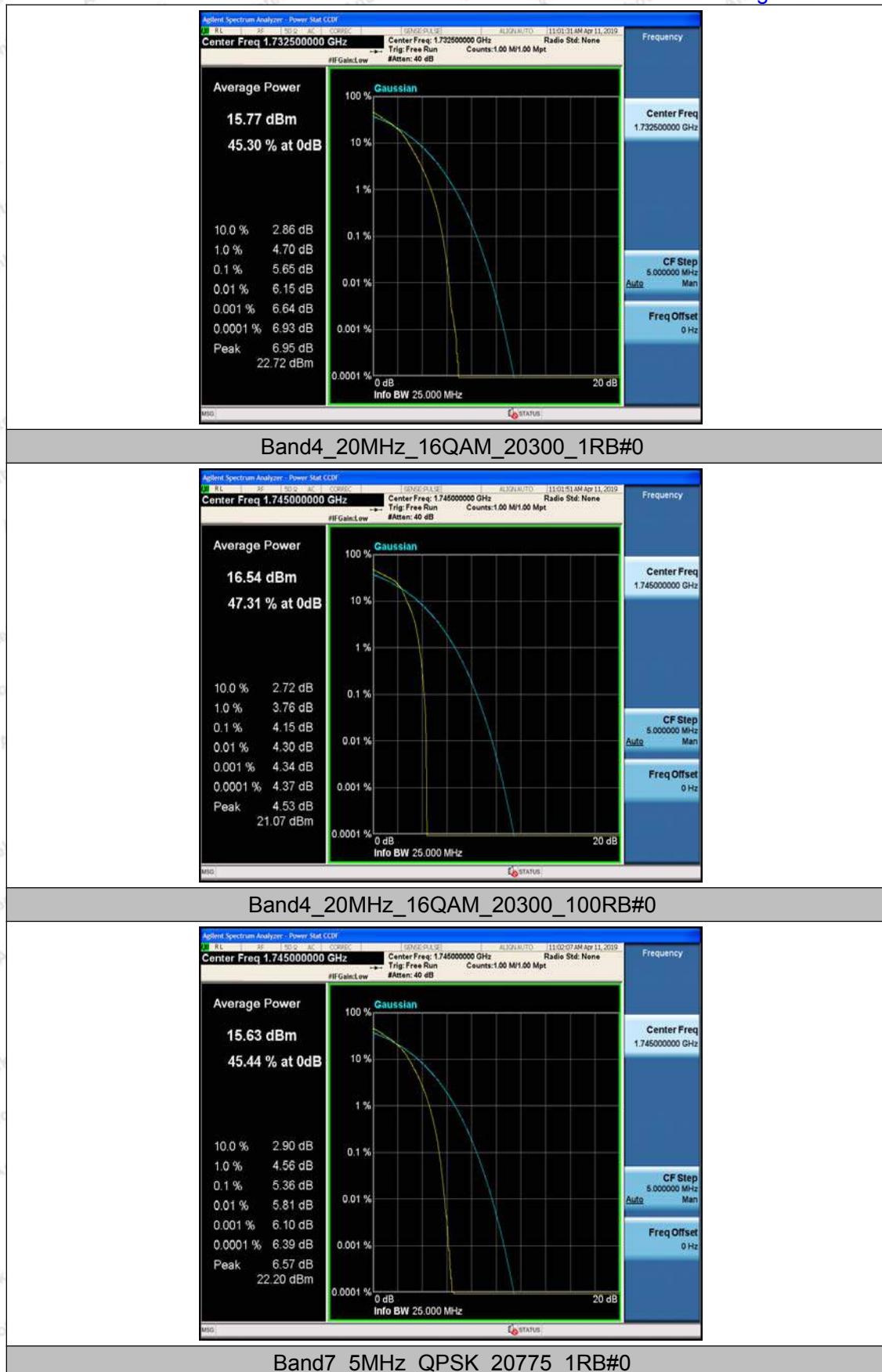
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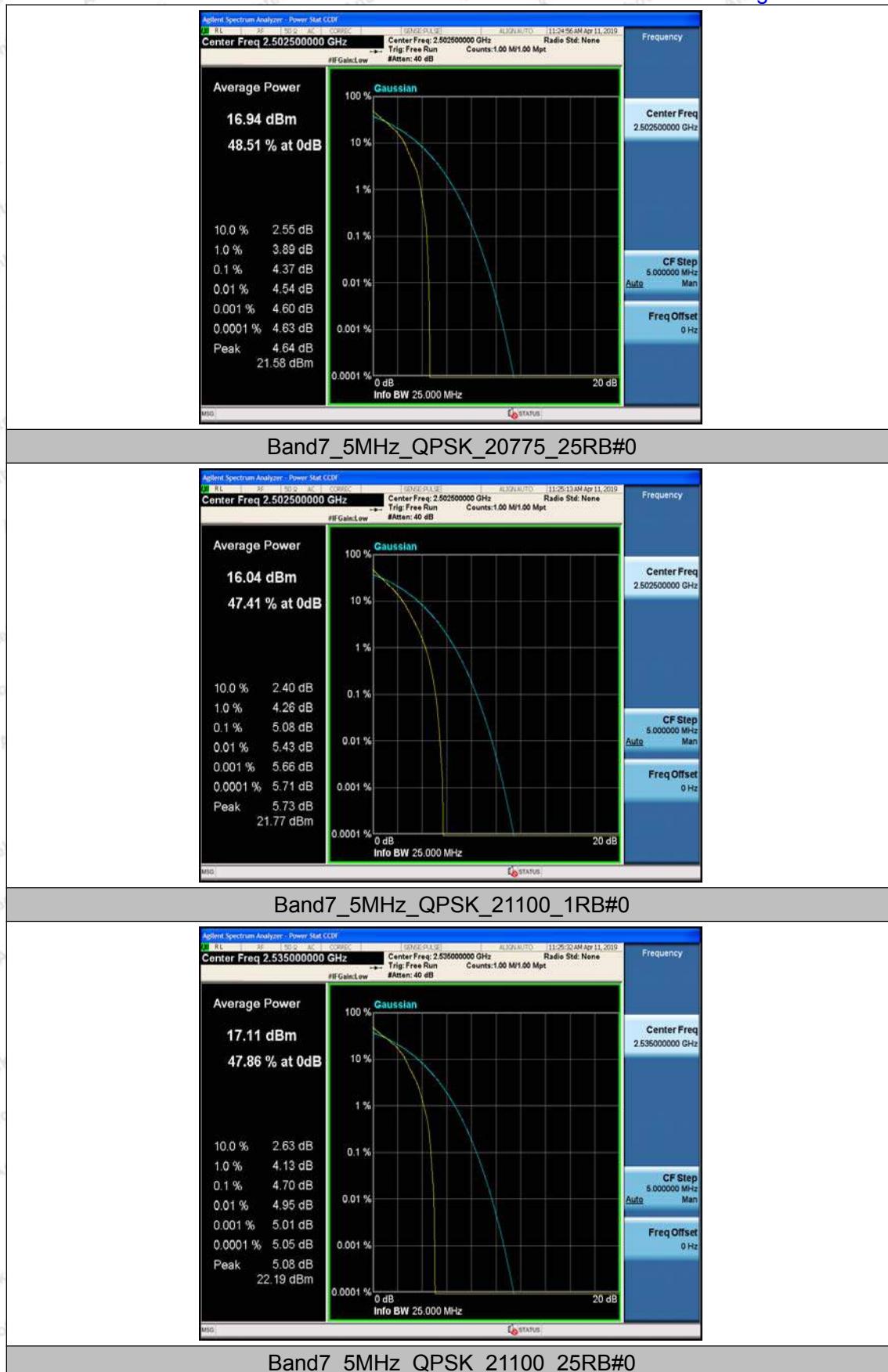
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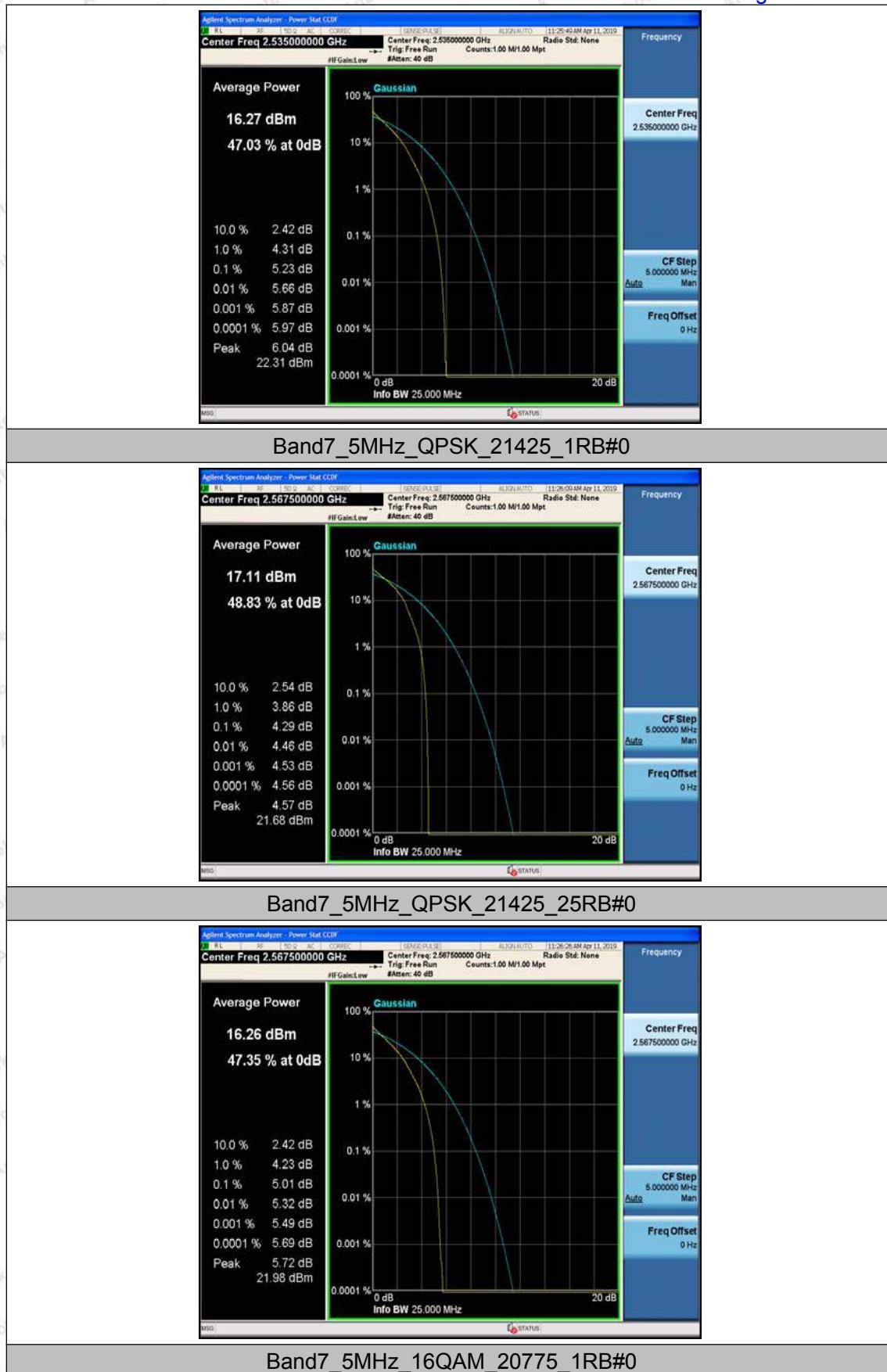
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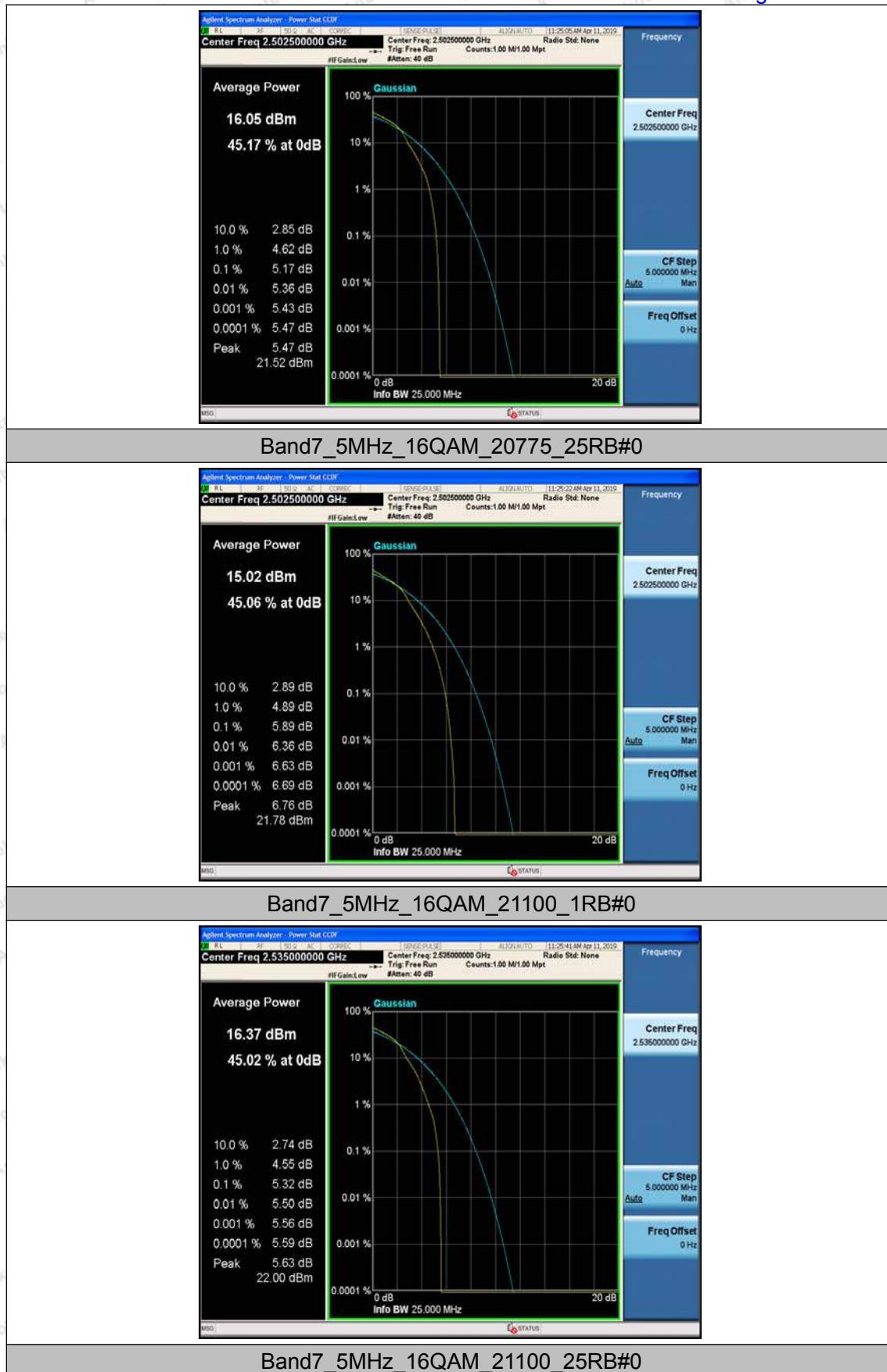
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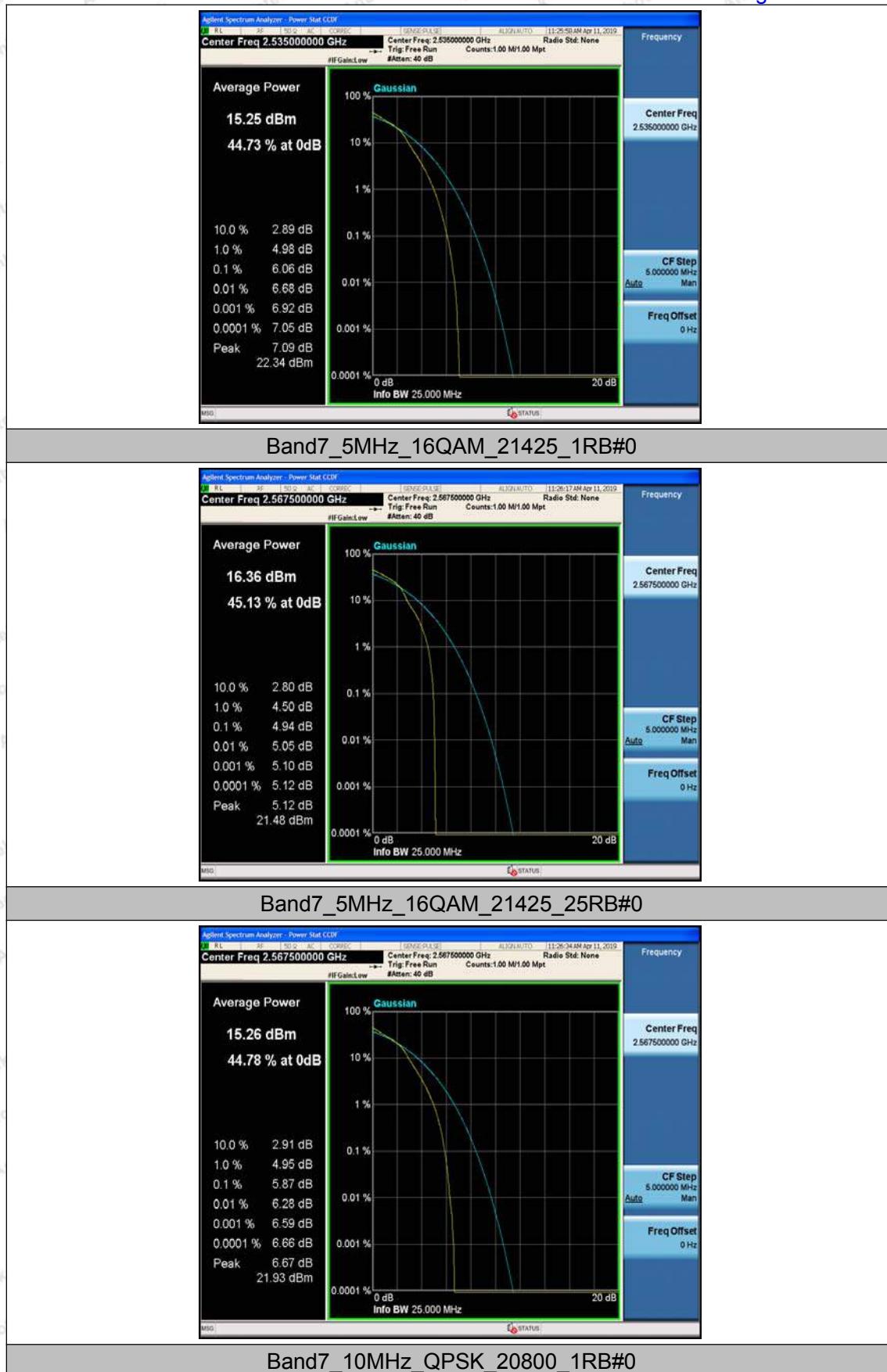
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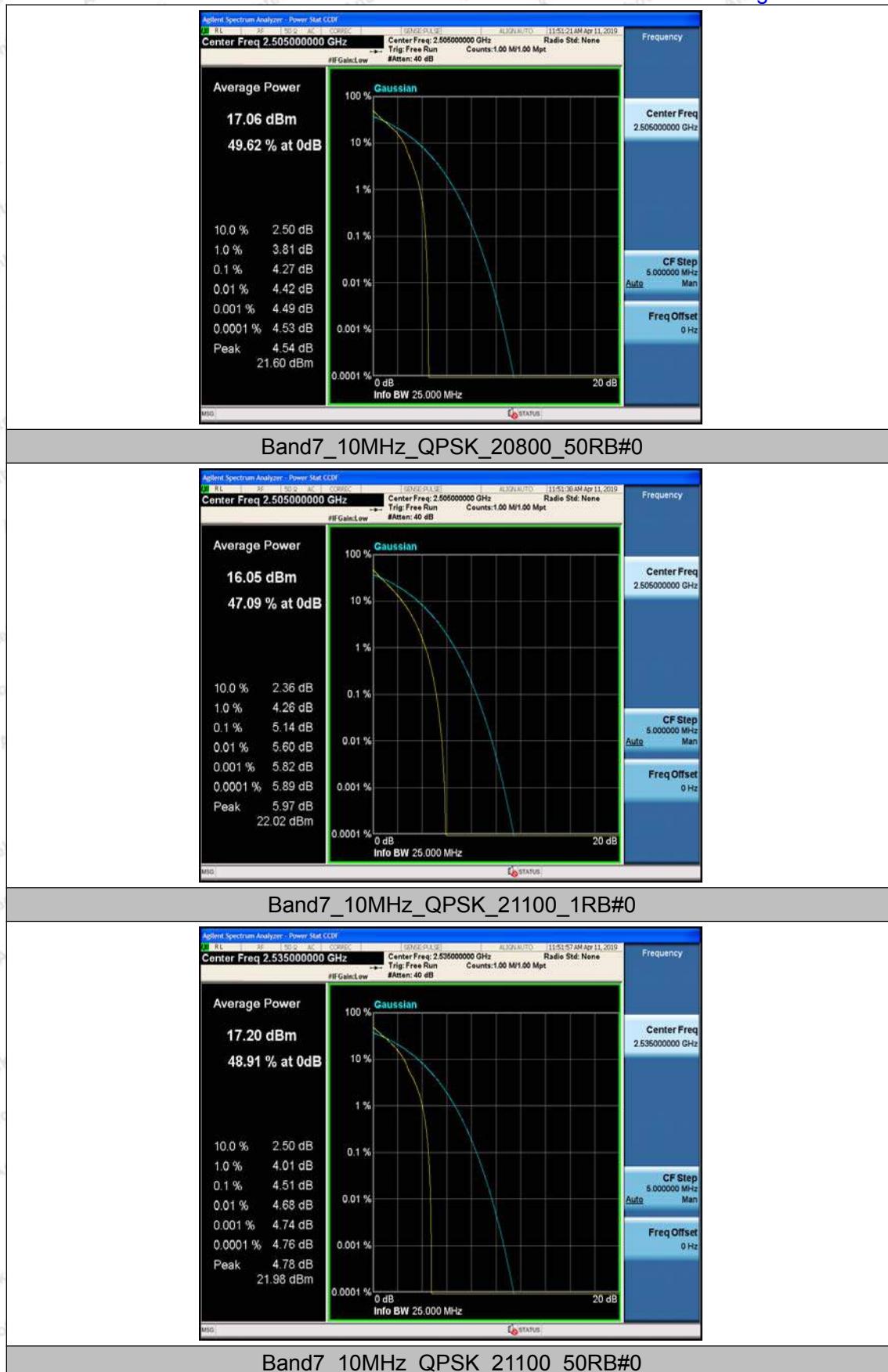
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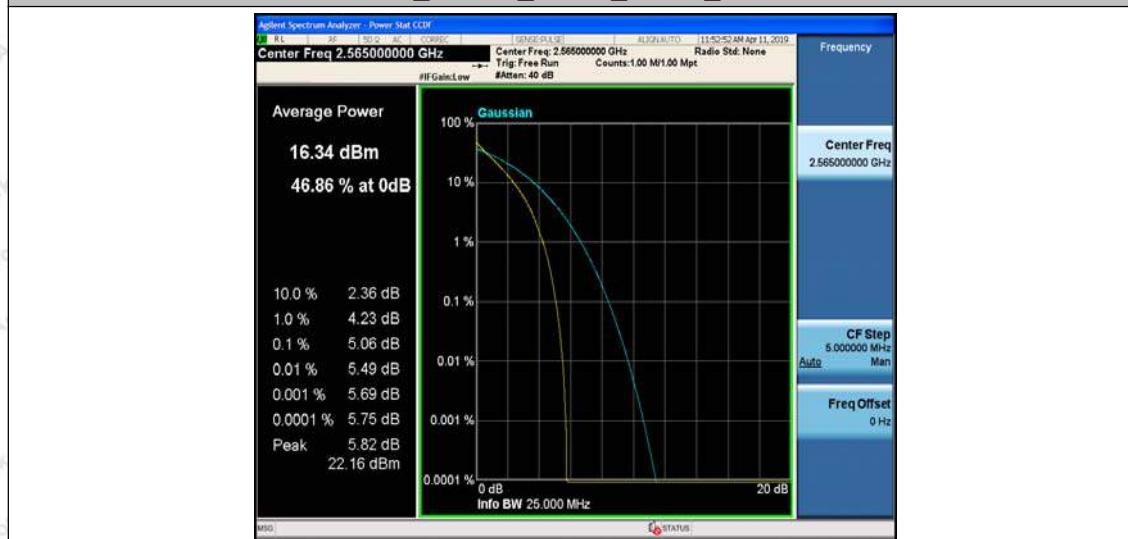
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Band7_10MHz_QPSK_21400_1RB#0



Band7 10MHz QPSK 21400 50RB#0



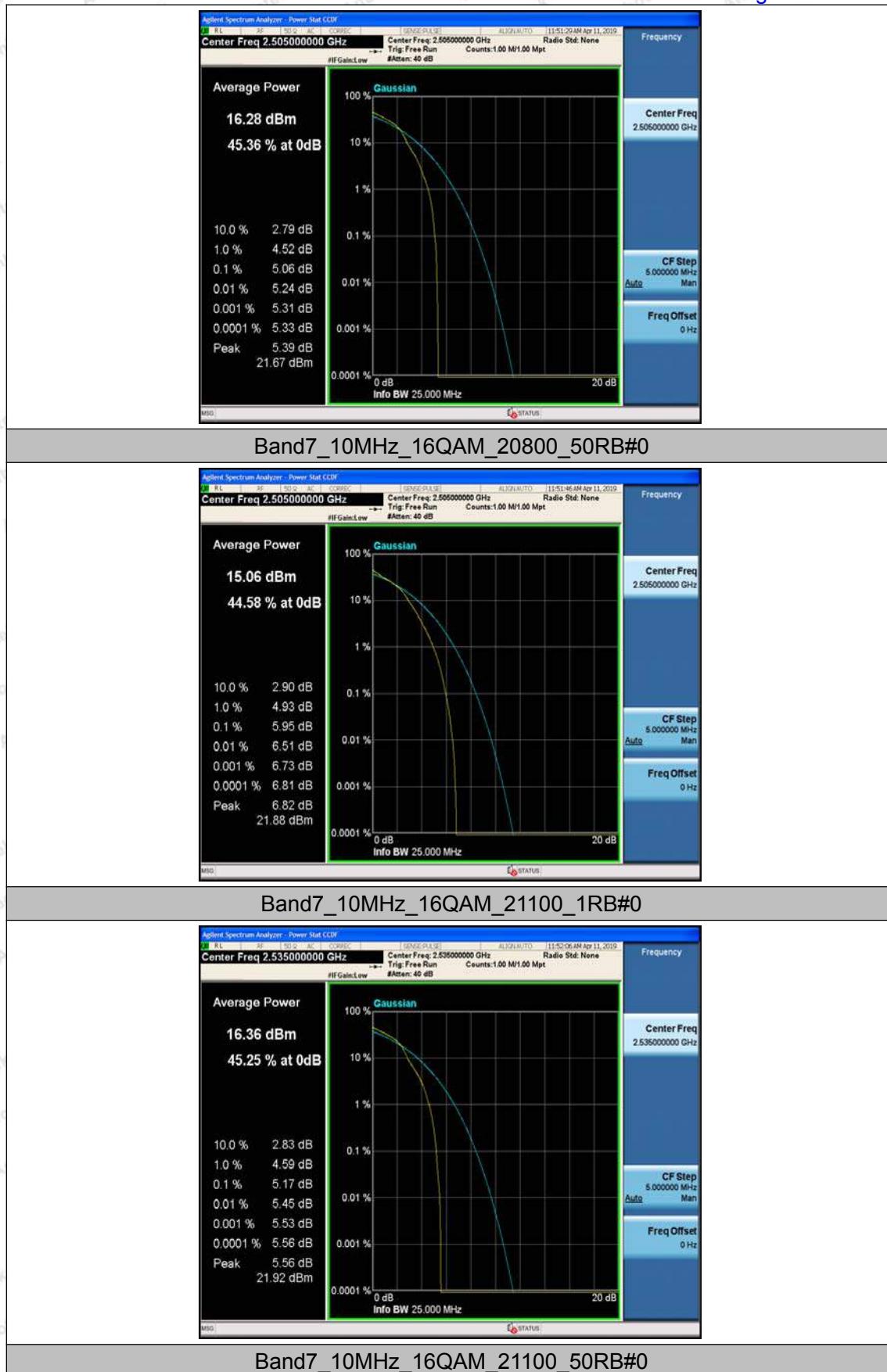
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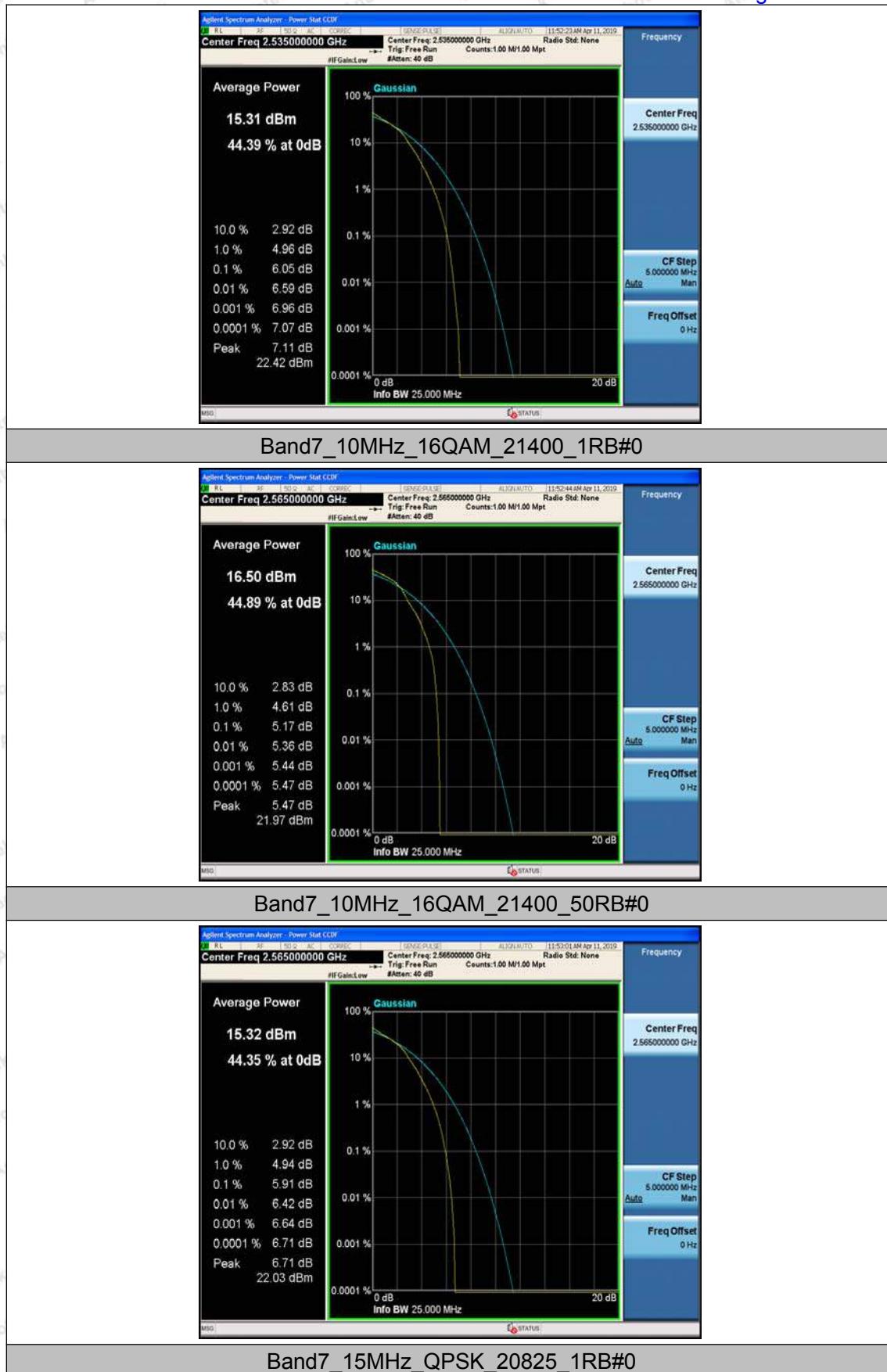
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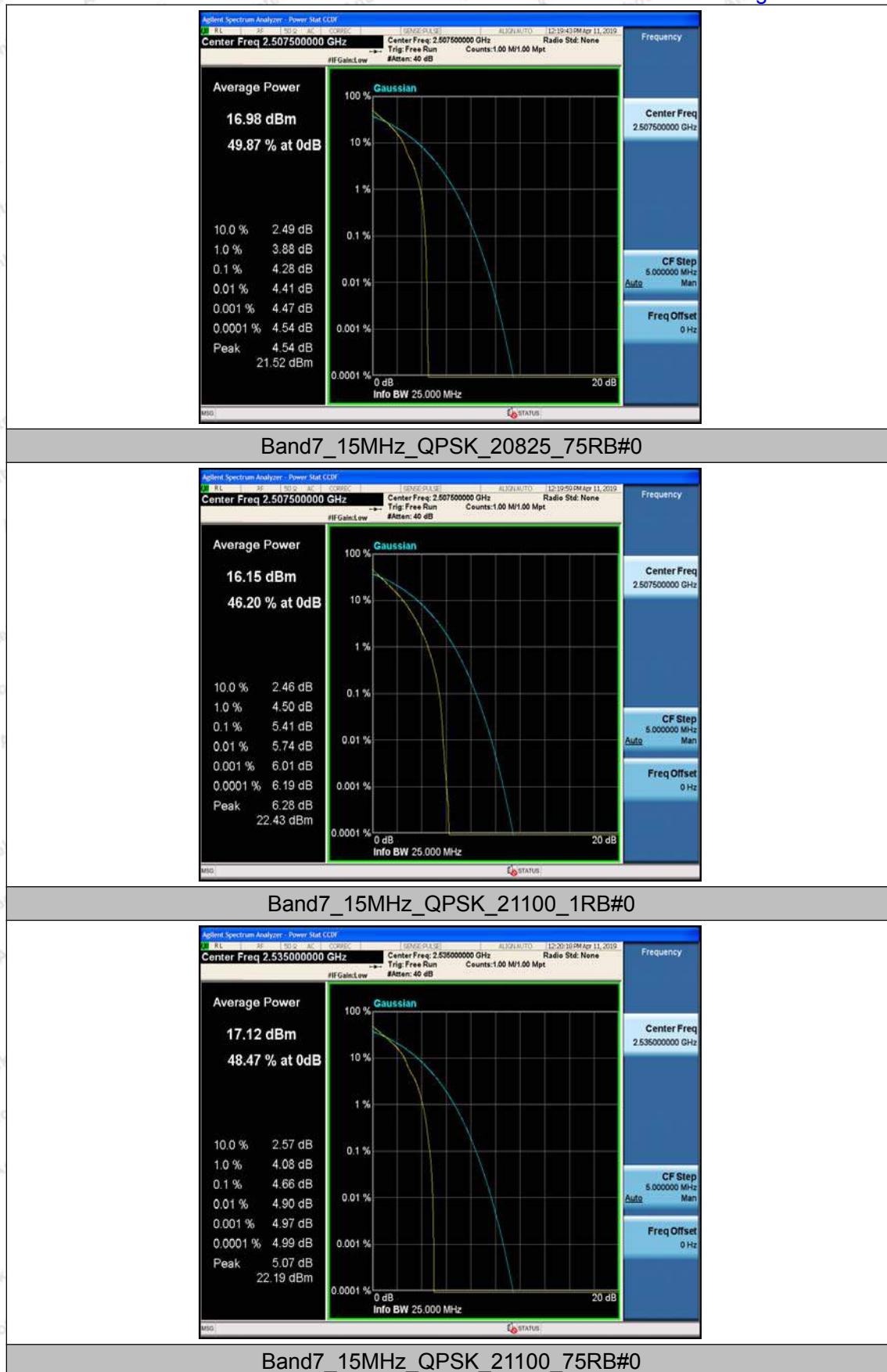
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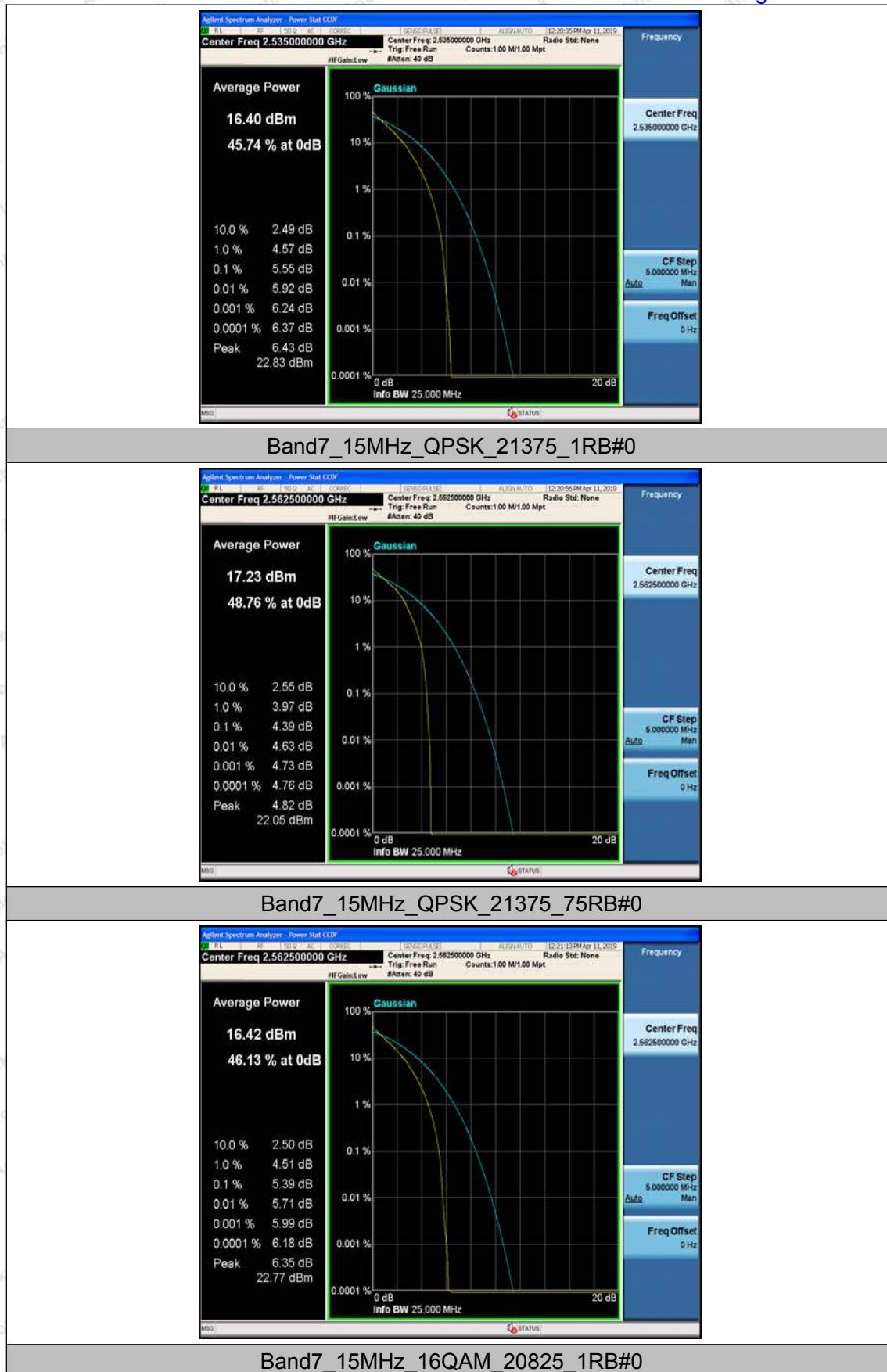
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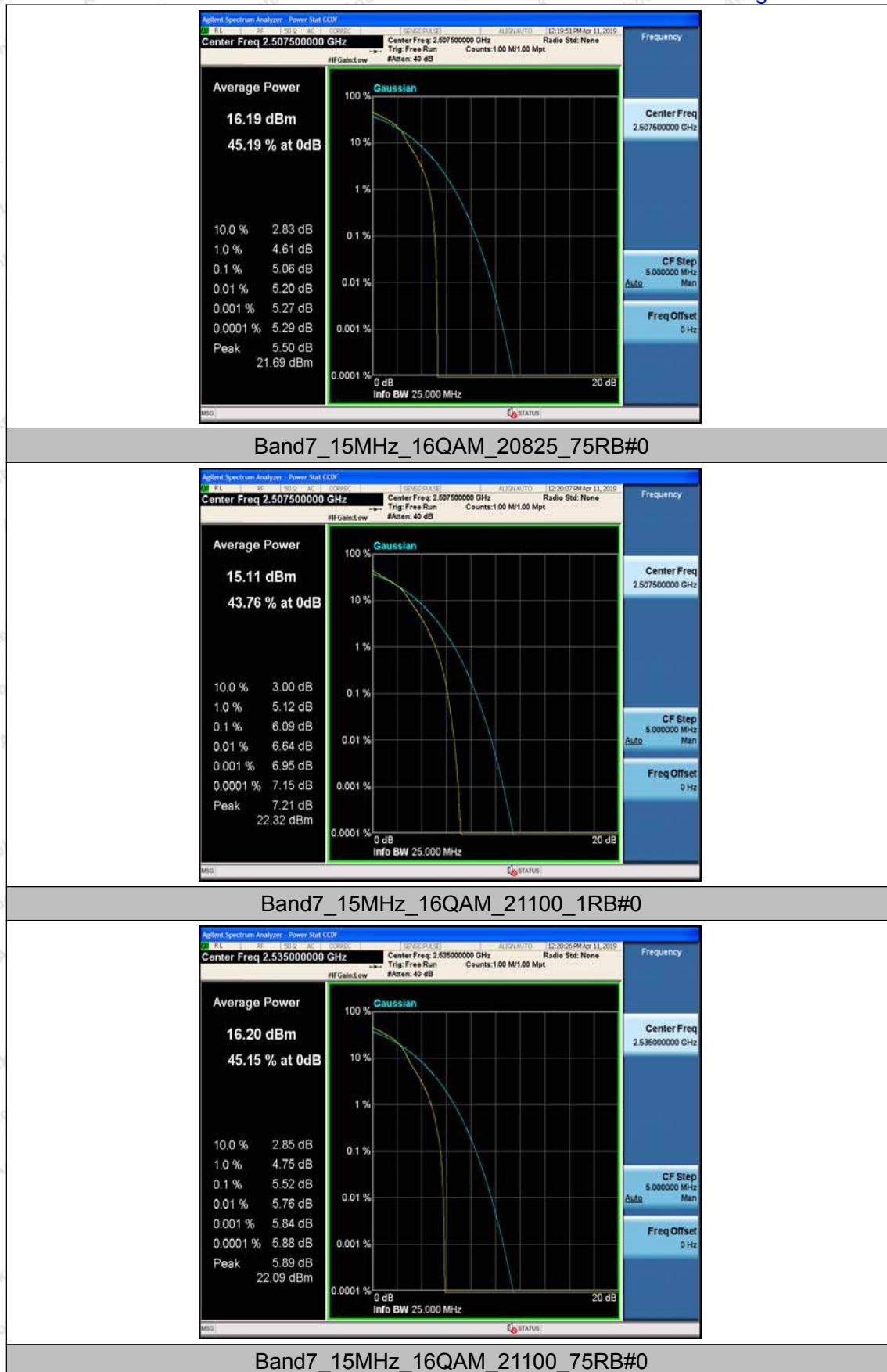
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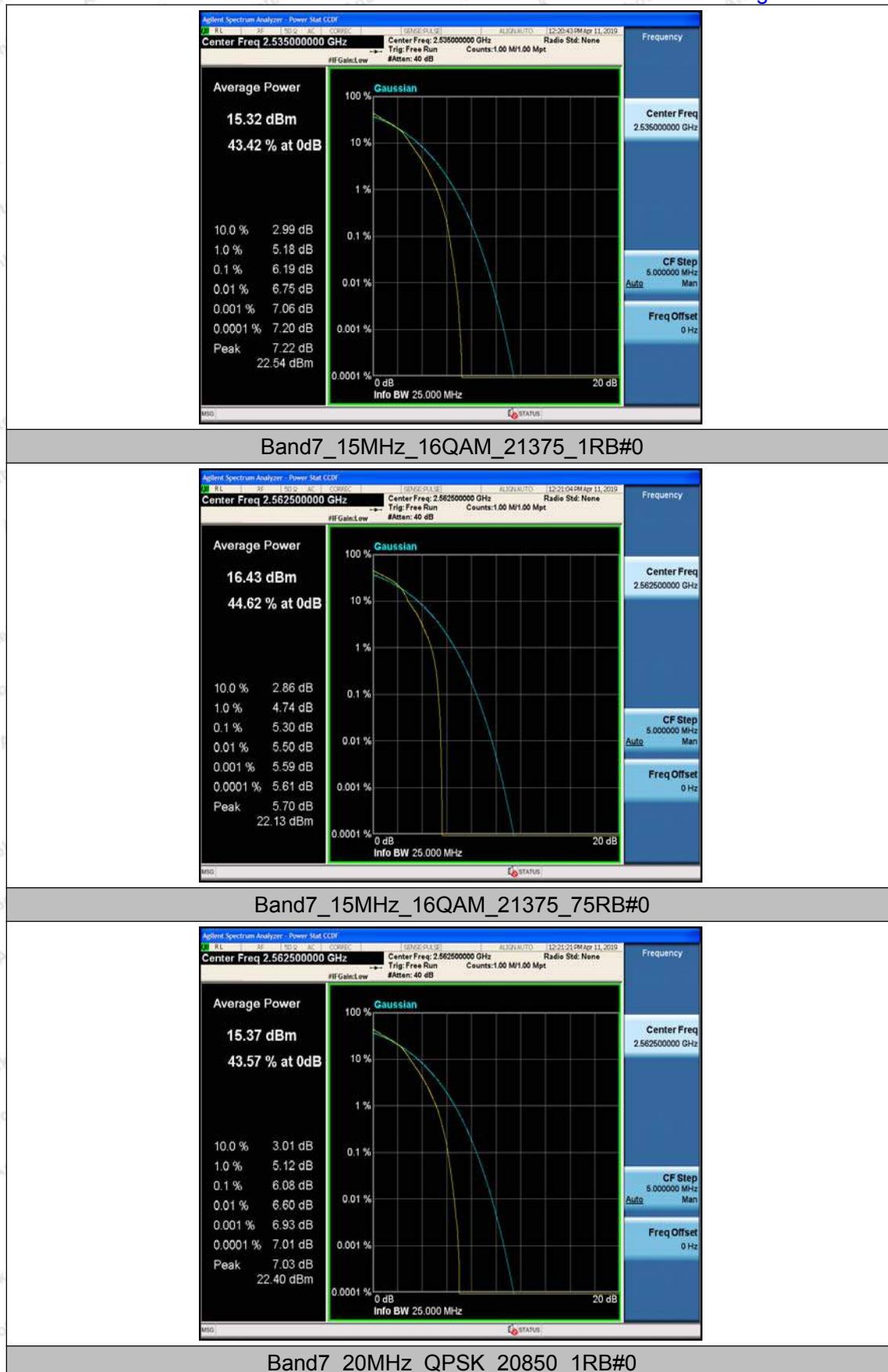
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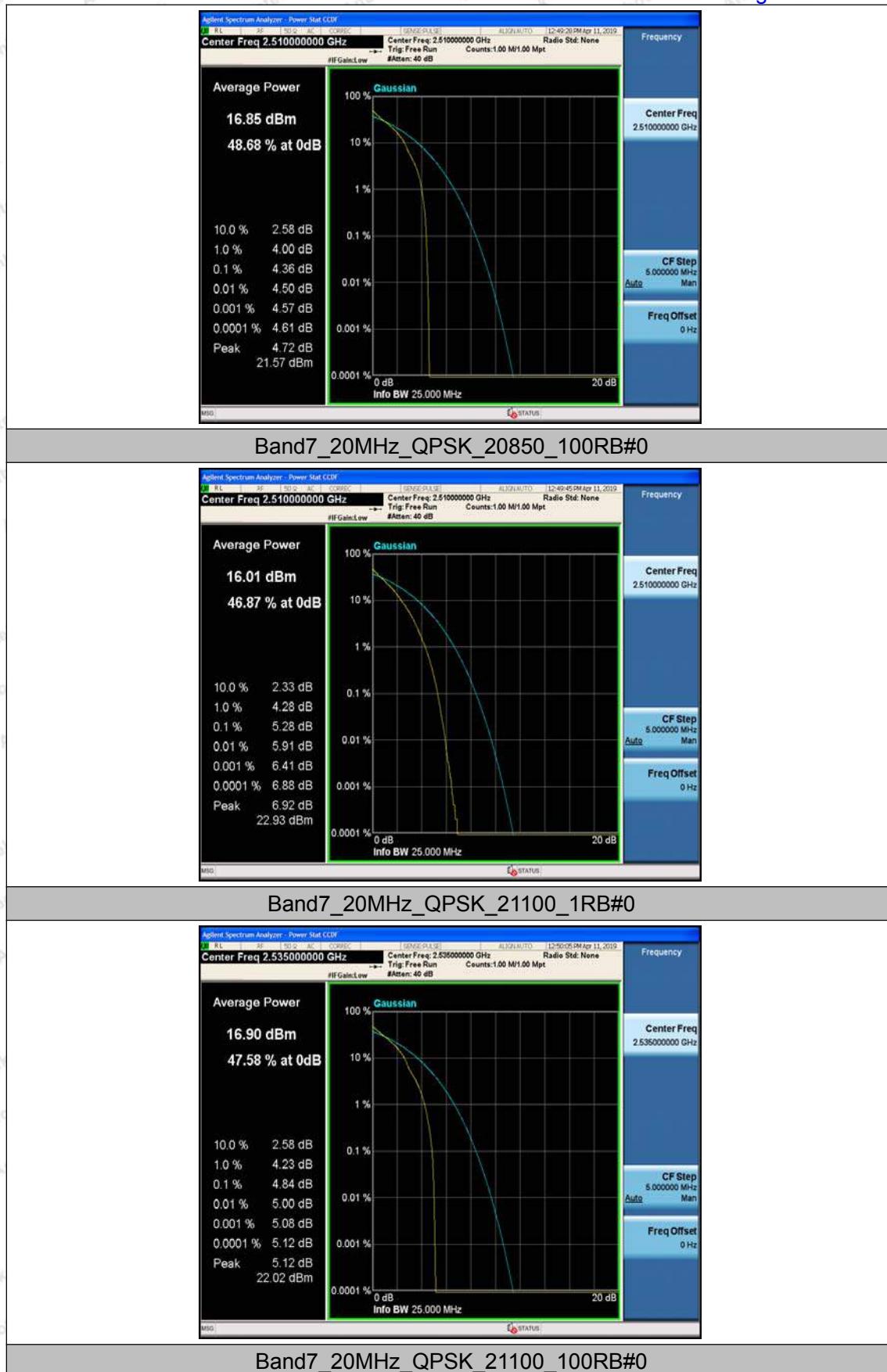
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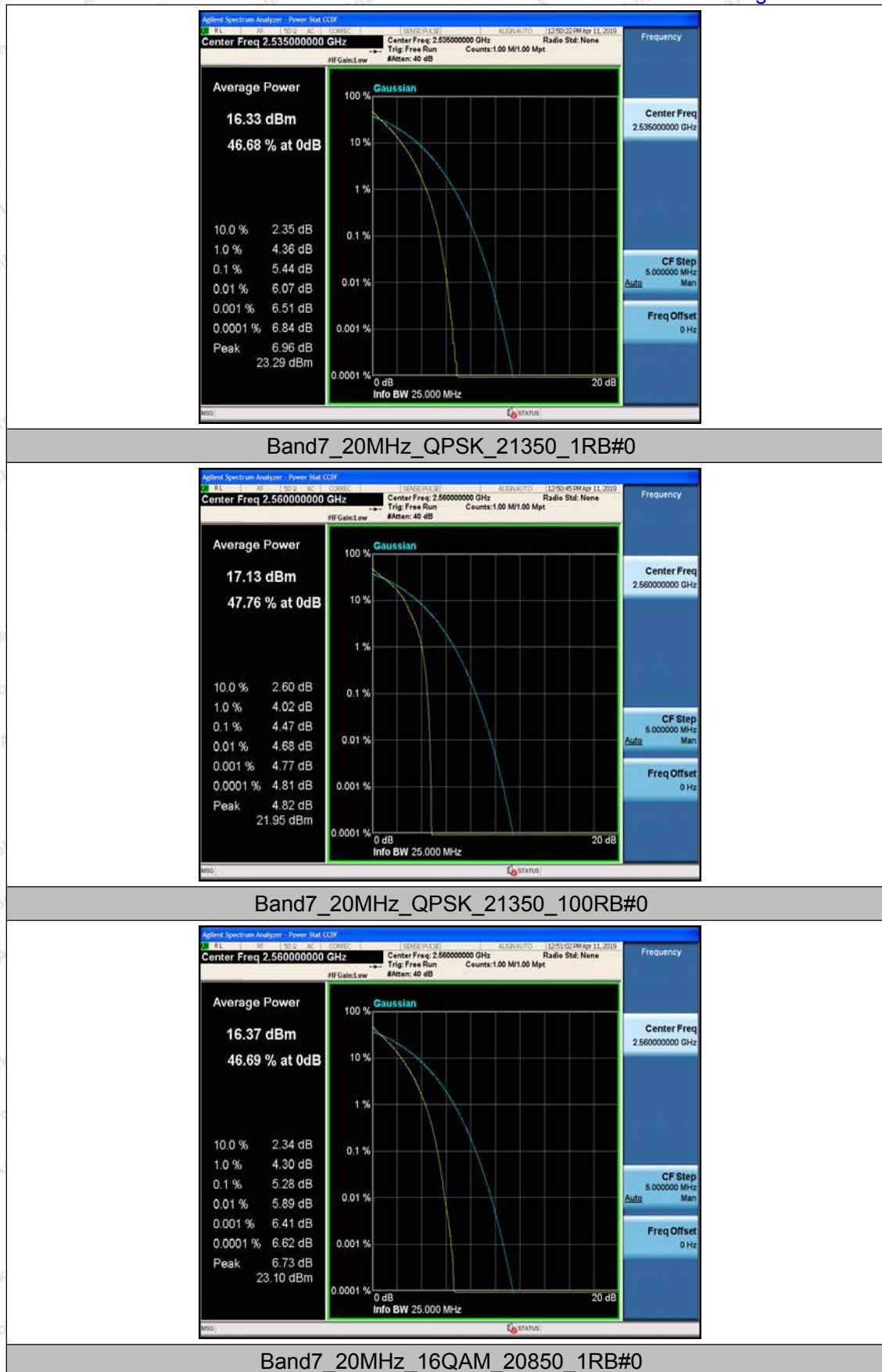
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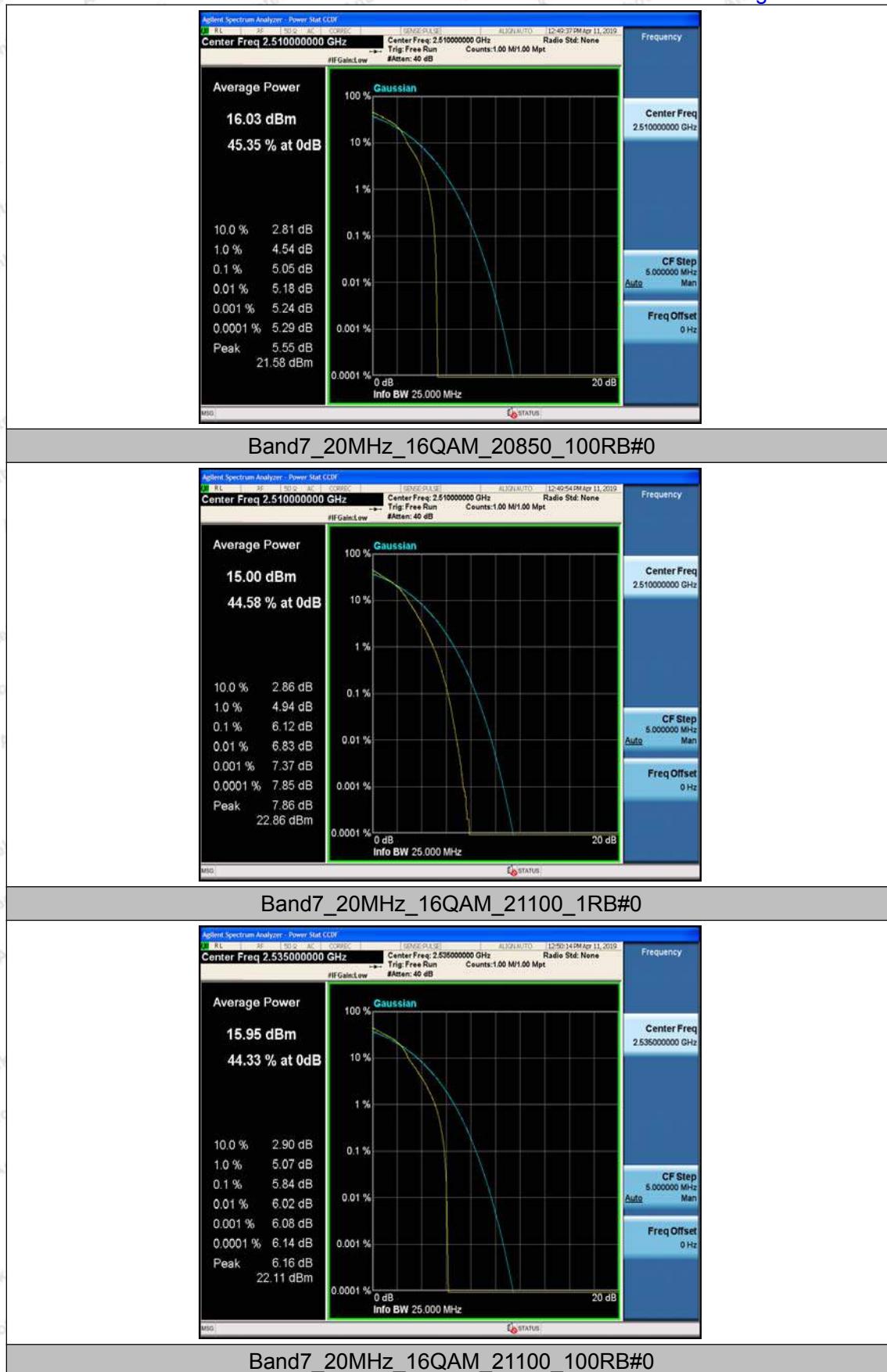
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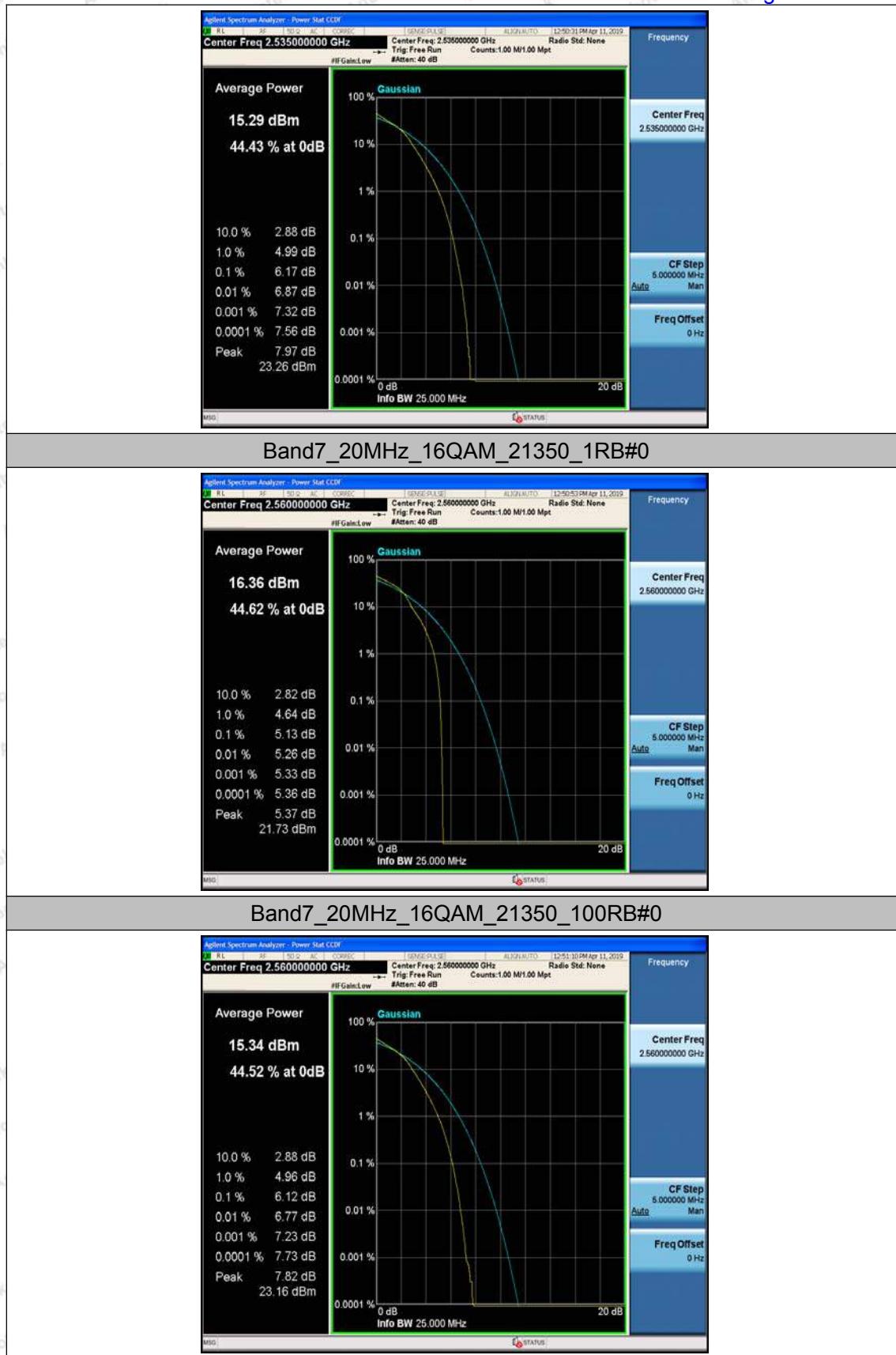
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5. Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, Part 24E& Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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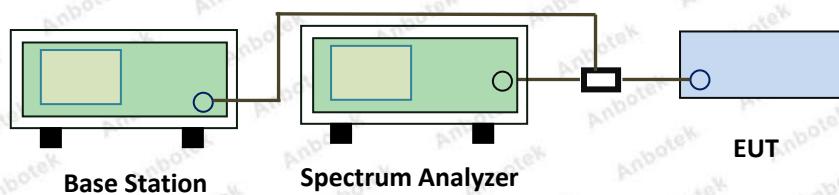
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6. Occupied Bandwidth

6.1. Test Standard and Limit

Spec	Item	Requirement
§2.1049, §22.917, §22.905 §24.238 §27.53(a)	a)	99% Occupied Bandwidth(kHz)
	b)	26 dB Bandwidth(kHz)

6.2. Test Setup



6.3. Test Procedure

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

6.4. Test Data

GSM Mode:

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
GSM850	128	246.2	310	PASS
GSM850	190	245.6	313	PASS
GSM850	251	244.3	314	PASS
GPRS850	128	243.2	313	PASS
GPRS850	190	243.6	314	PASS
GPRS850	251	244.1	312	PASS
GSM1900	512	244.6	309	PASS
GSM1900	661	244.6	303	PASS
GSM1900	810	247.2	308	PASS

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GPRS1900	512	246.4	310	PASS
GPRS1900	661	244.3	313	PASS
GPRS1900	810	244.0	307	PASS

WCDMA Mode:

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
Band II	9262	4132.1	4724	PASS
Band II	9400	4141.0	4720	PASS
Band II	9538	4145.0	4753	PASS
Band V	4132	4154.1	4734	PASS
Band V	4182	4127.0	4699	PASS
Band V	4233	4116.1	4703	PASS

LTE Mode:

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0927	1.237	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0884	1.265	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0888	1.276	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0888	1.267	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0870	1.221	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0895	1.268	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6919	2.865	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6891	2.868	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6878	2.850	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6863	2.870	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6896	2.847	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6874	2.848	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5026	4.989	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4971	4.938	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5098	4.935	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5039	4.960	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5038	4.984	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5150	4.940	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9946	9.609	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9834	9.574	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9959	9.611	PASS

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Band2	10MHz	16QAM	18650	50RB#0	8.9854	9.578	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9815	9.571	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9771	9.546	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.486	14.35	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.468	14.30	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.438	14.29	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.479	14.33	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.460	14.32	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.436	14.27	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.970	18.98	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.954	18.98	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.908	18.96	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.961	18.99	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.972	18.99	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.910	18.98	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	1.0884	1.246	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0886	1.246	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0953	1.281	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0895	1.268	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0912	1.272	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0877	1.260	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6849	2.868	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6915	2.853	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6990	2.869	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6902	2.848	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6845	2.862	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6883	2.880	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5039	4.990	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5094	4.987	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5083	5.000	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5041	4.957	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5079	4.983	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5083	5.025	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9979	9.619	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9856	9.587	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9962	9.645	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9736	9.591	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9771	9.584	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9885	9.684	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.479	14.36	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.465	14.39	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.516	14.96	PASS

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