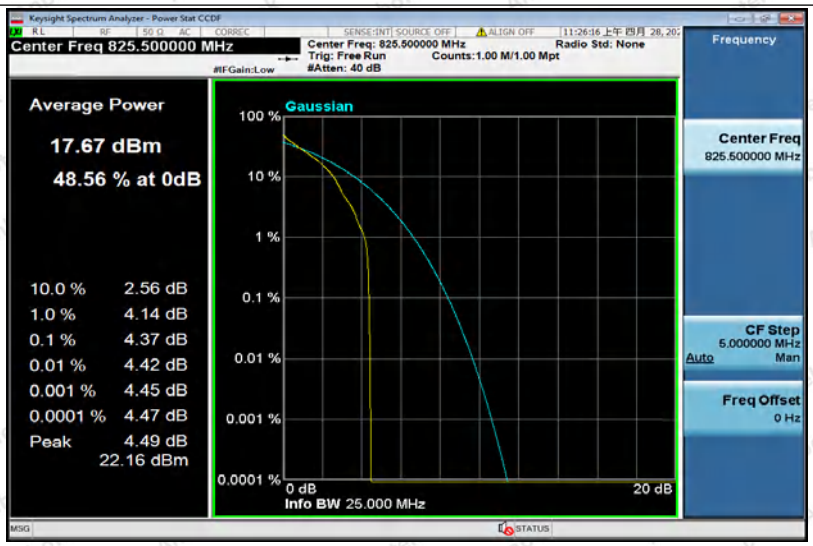
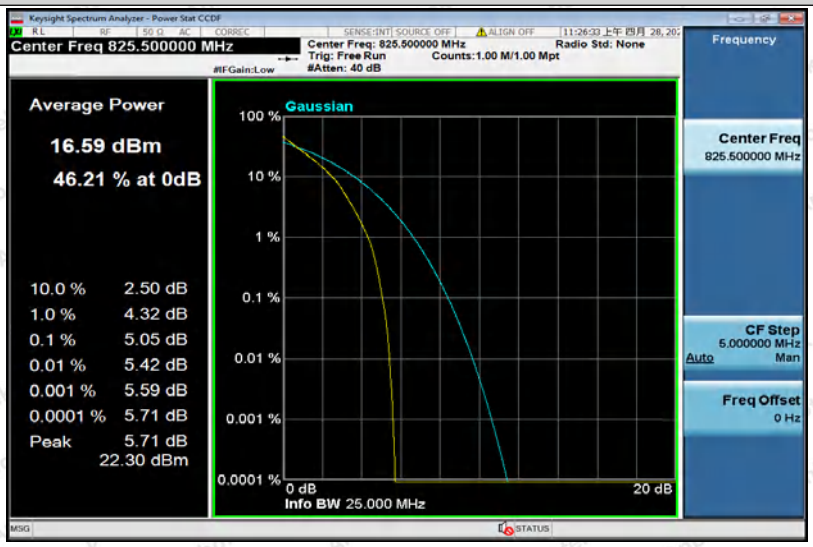


Band5-3MHz-QPSK-20415-15RB#0



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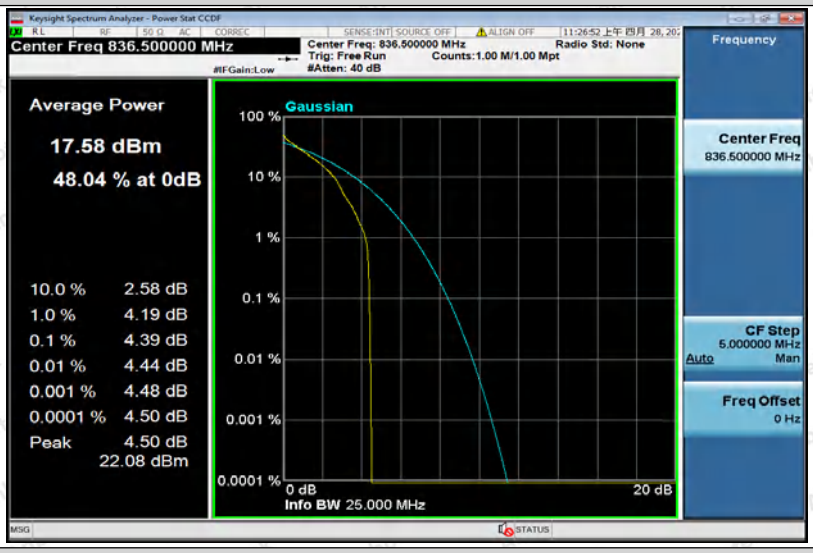

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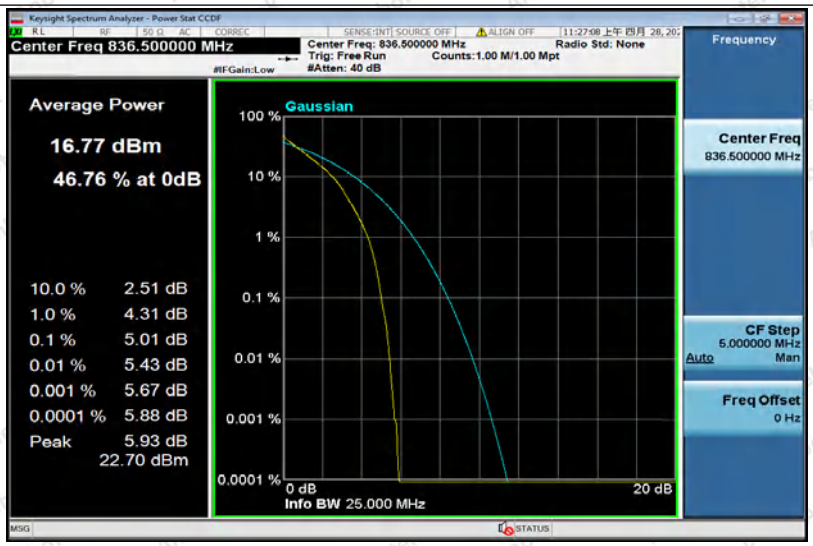

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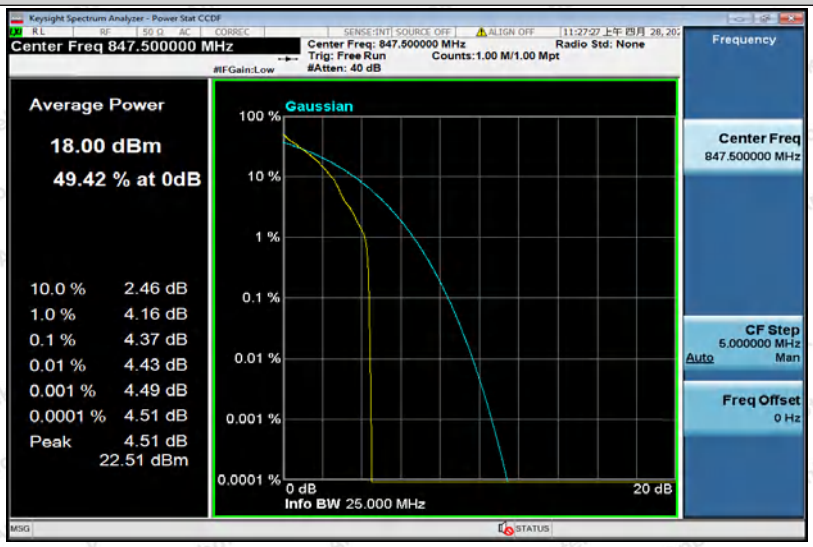

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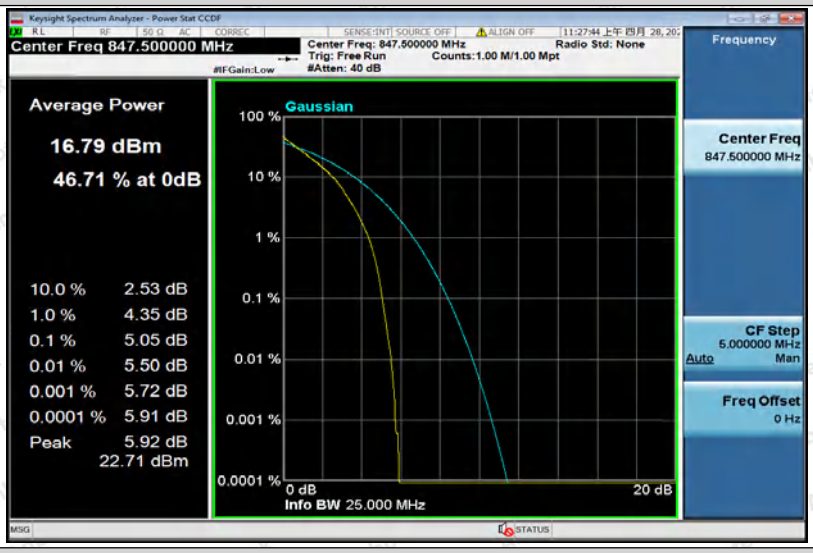

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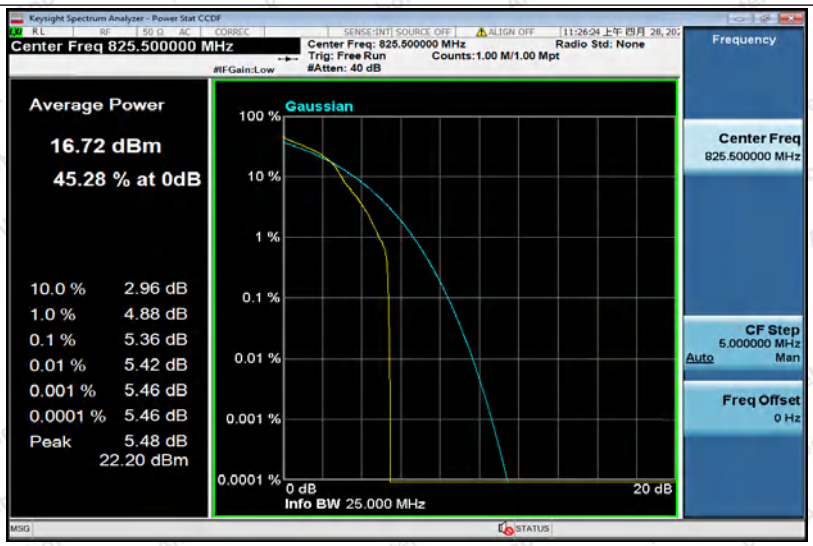

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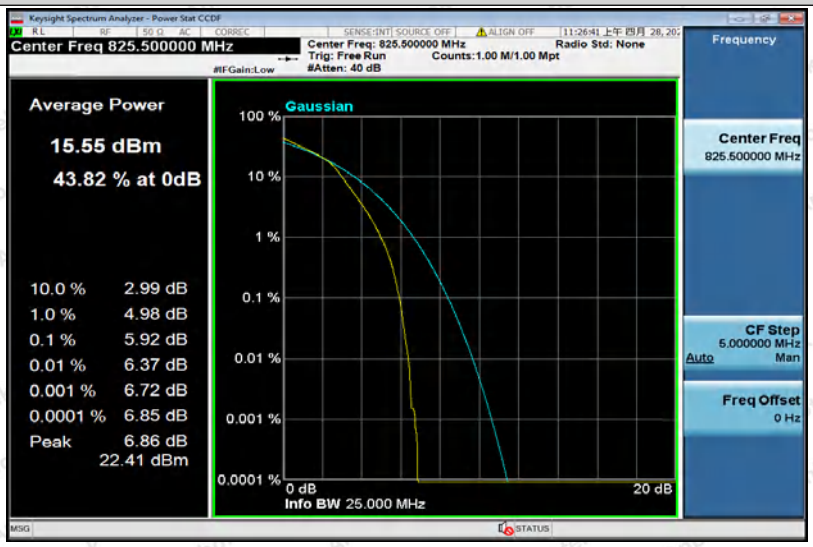

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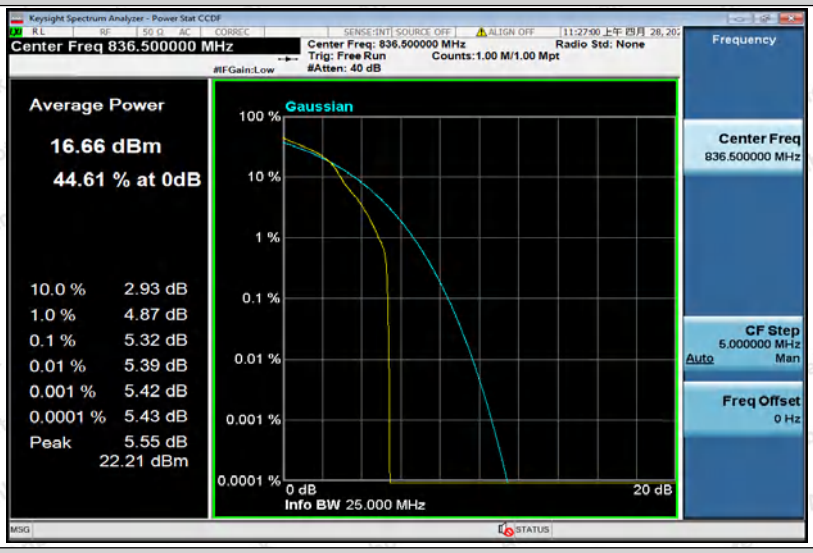

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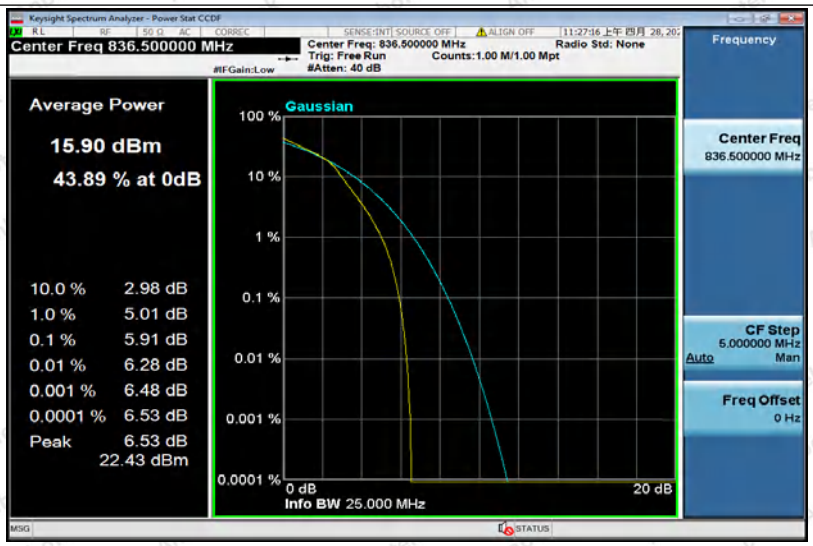

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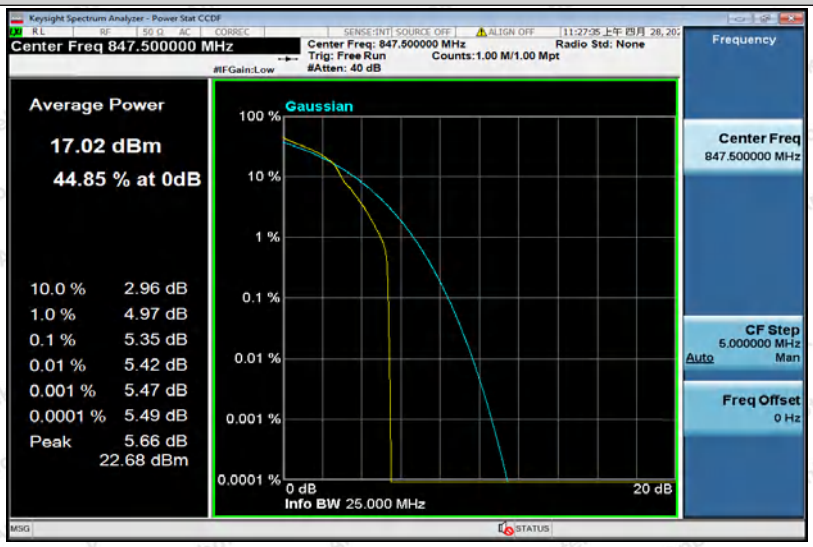

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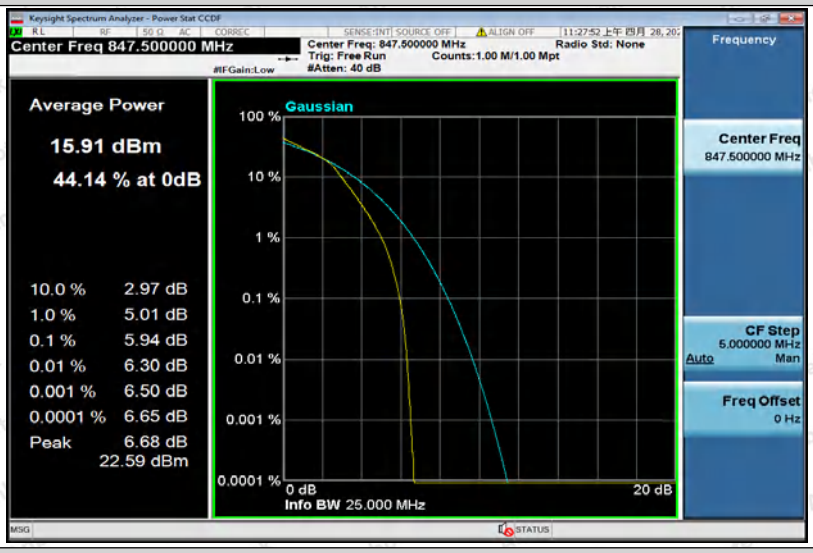

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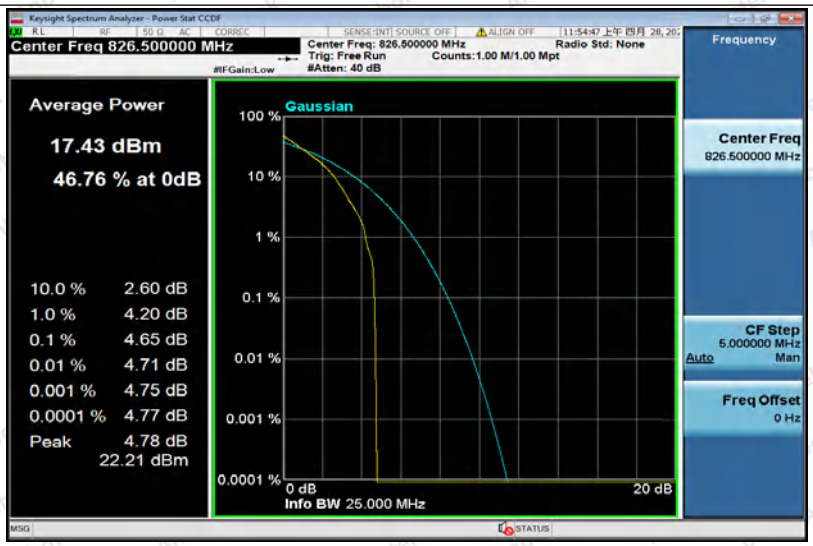

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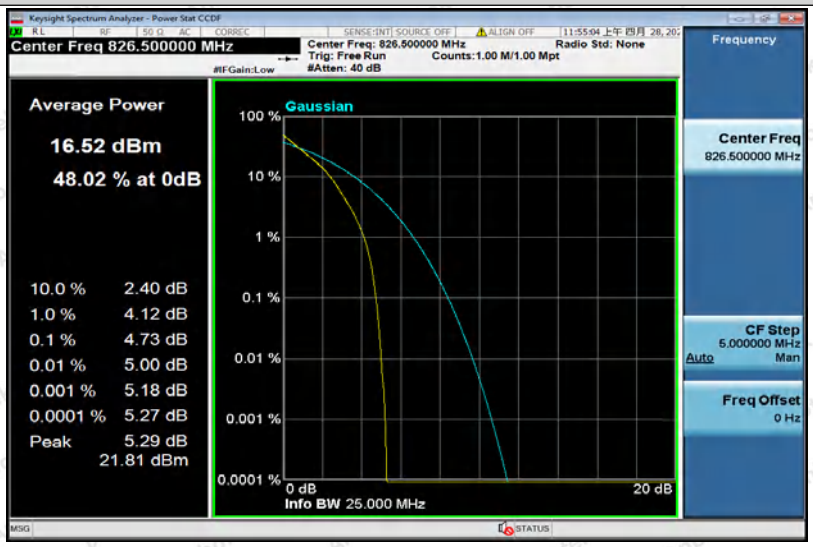

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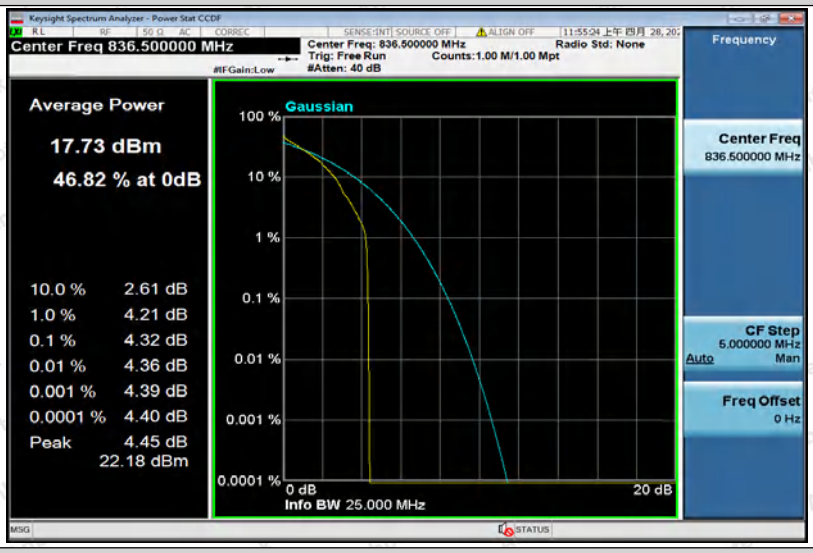

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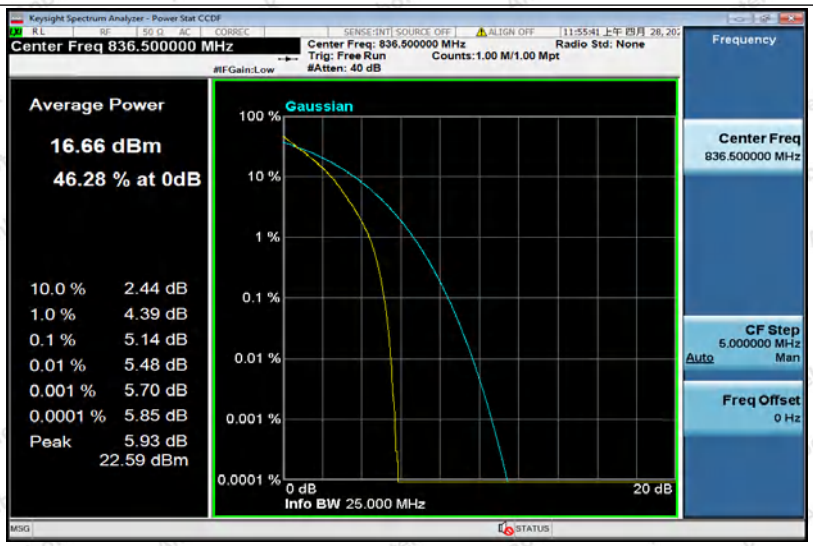

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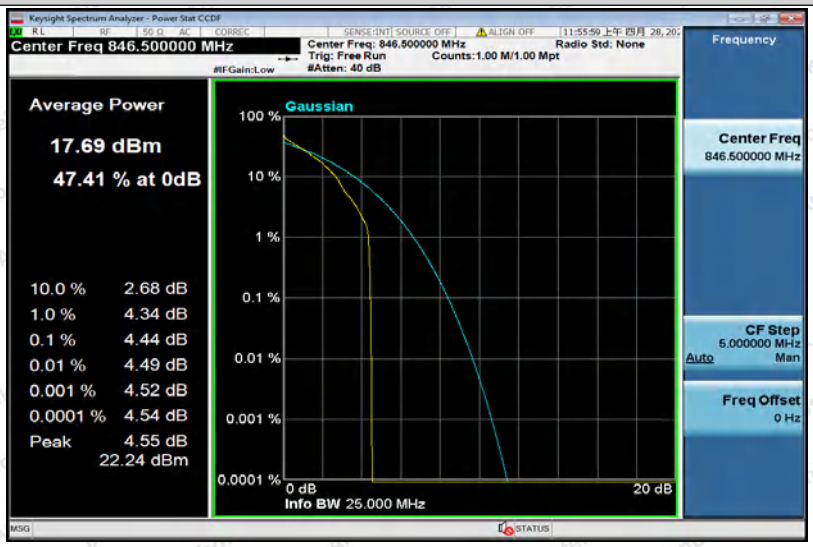

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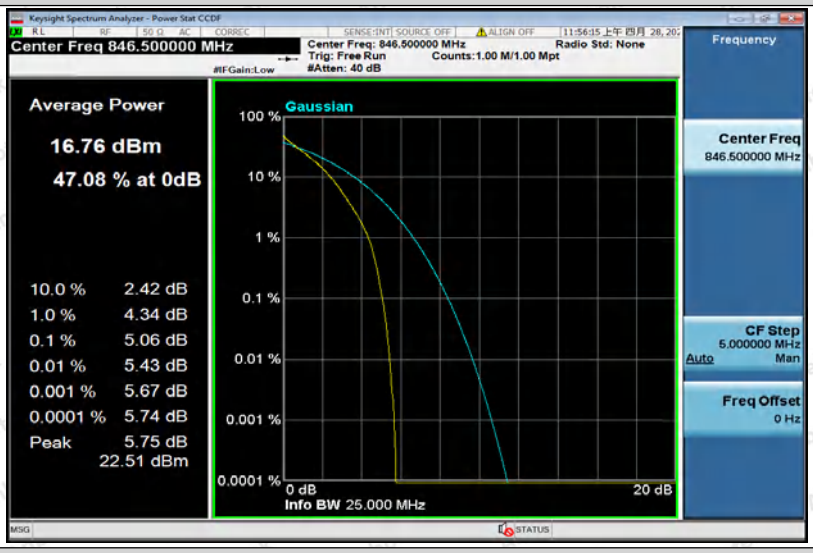

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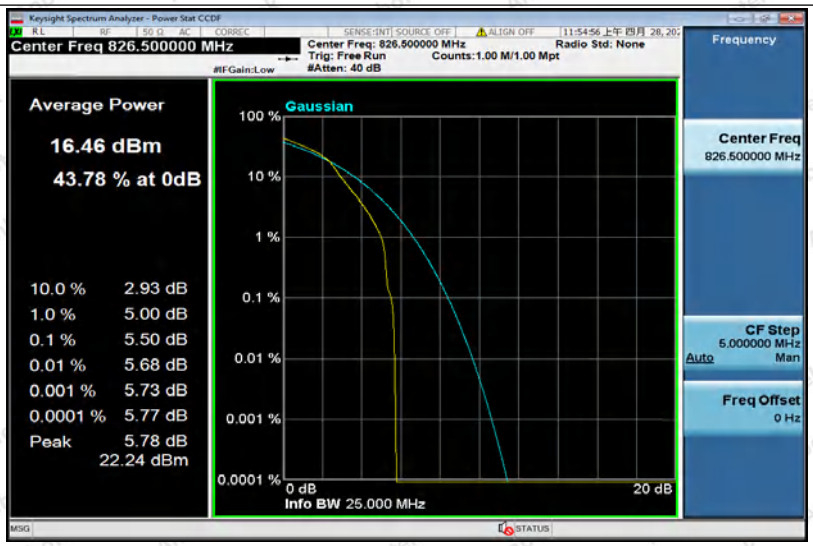

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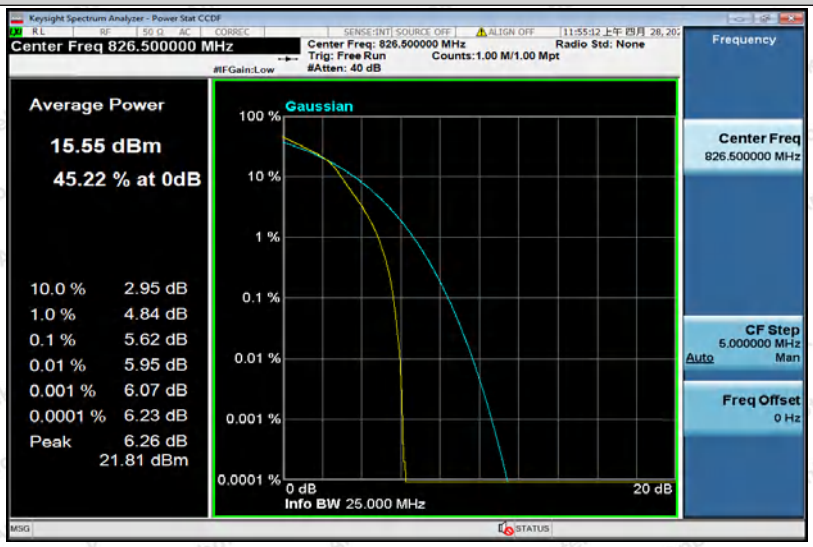

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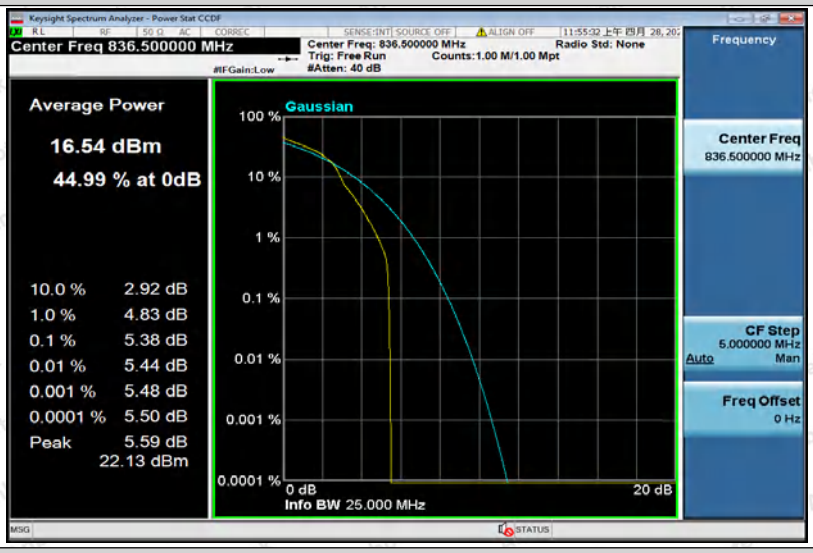

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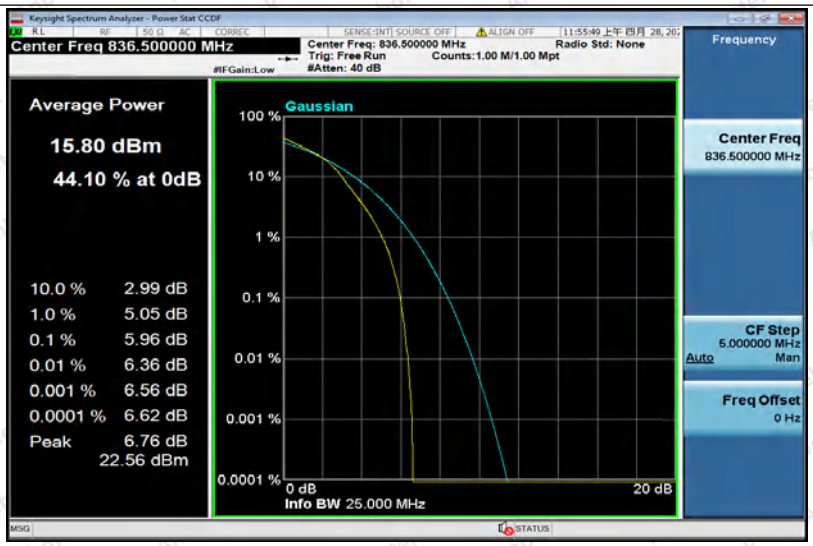

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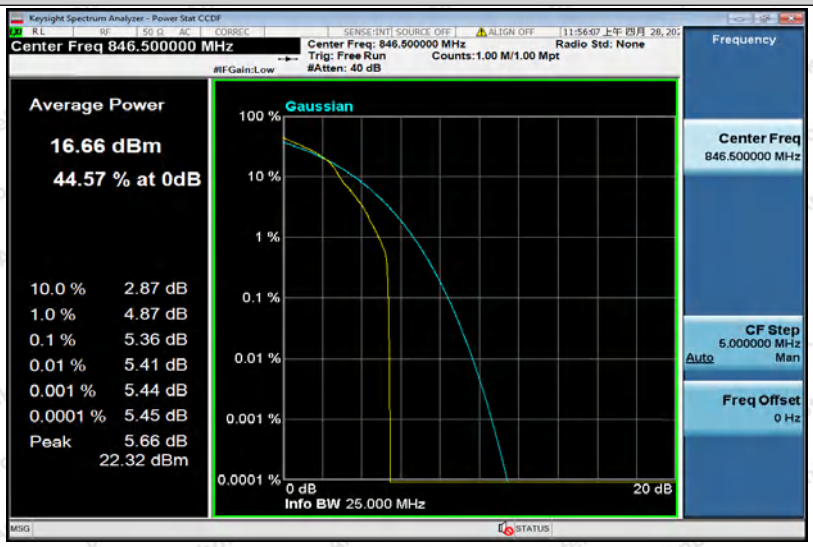

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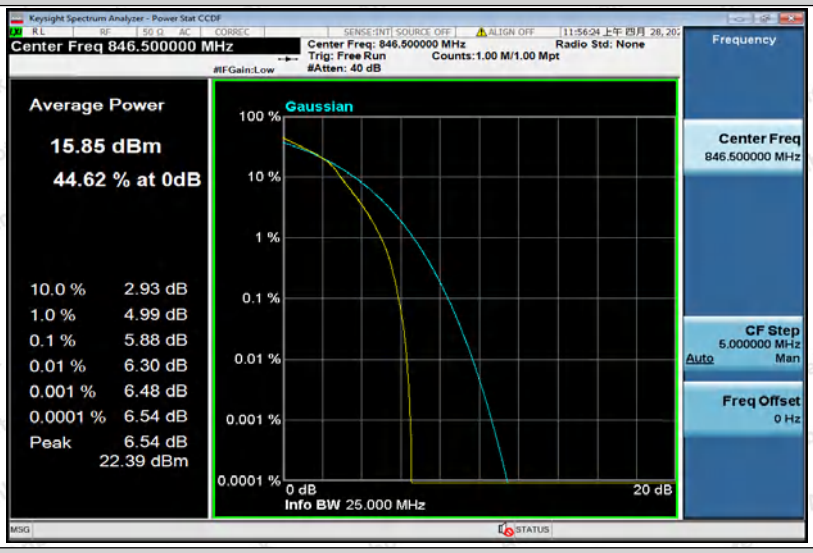

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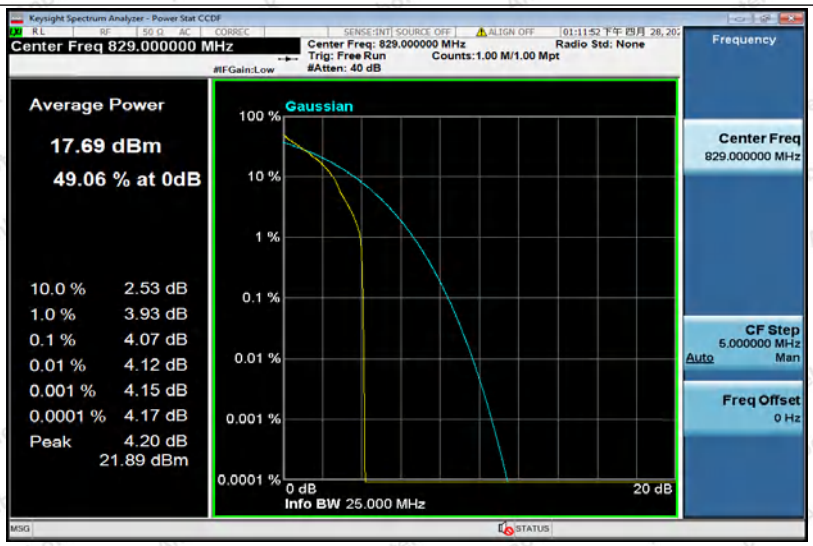

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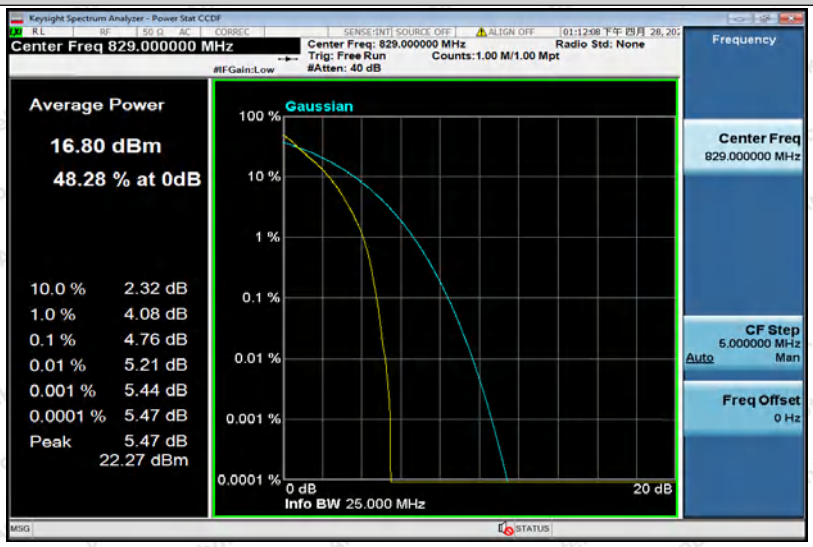

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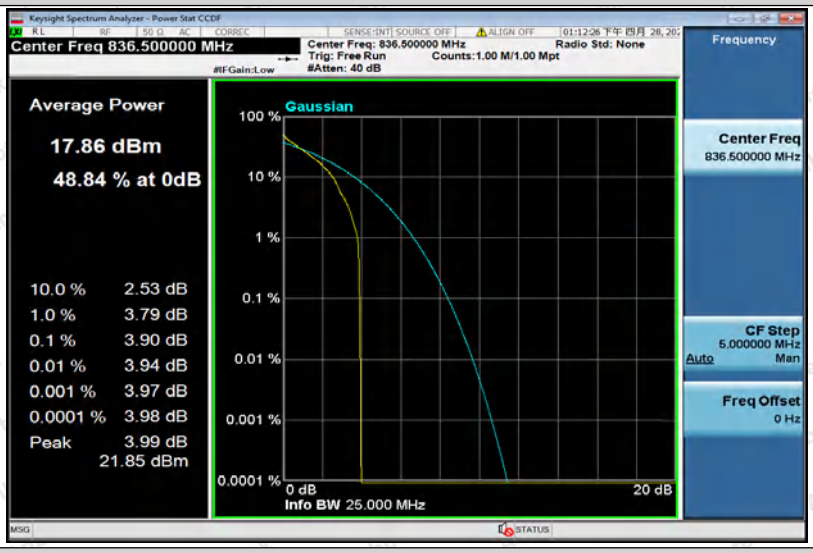

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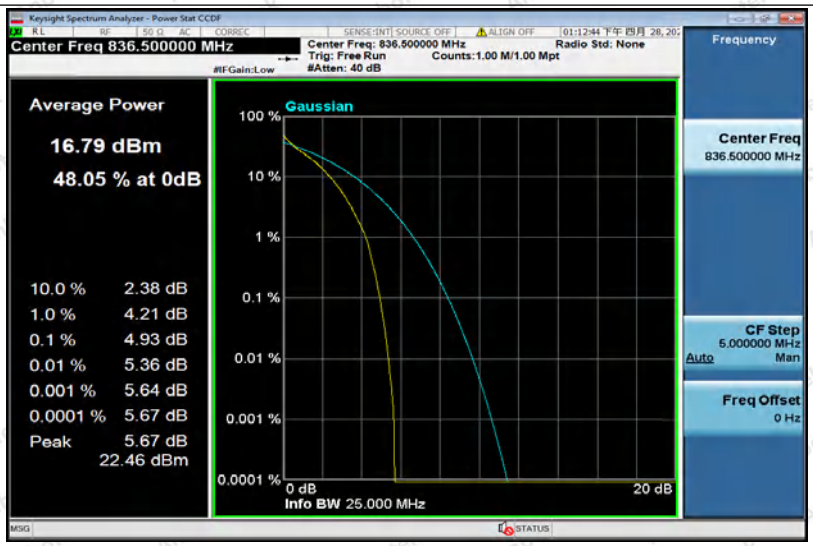

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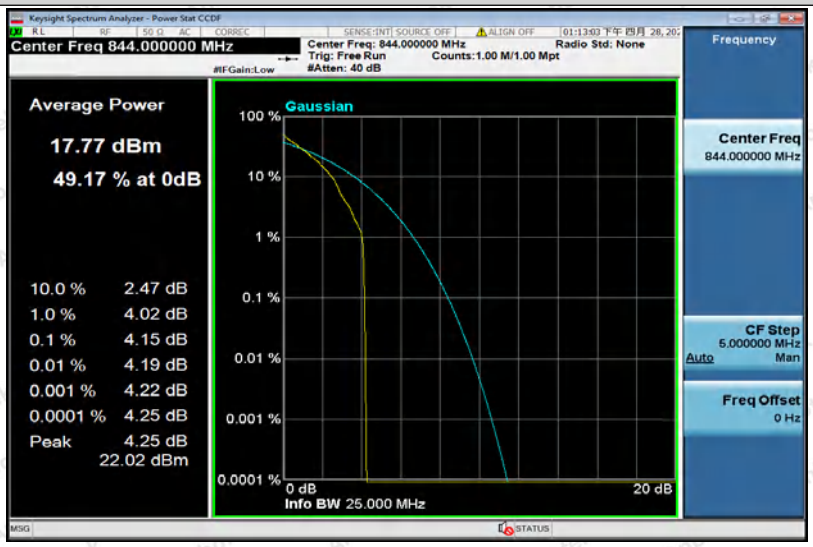

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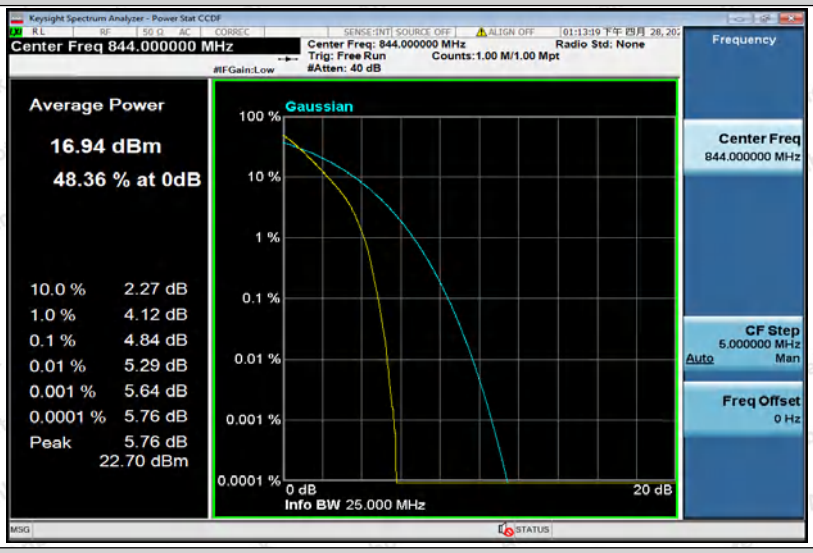

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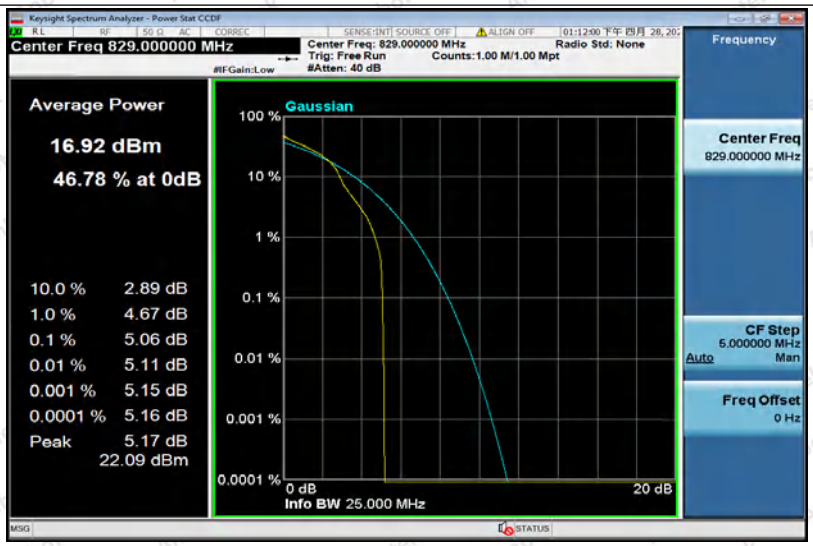

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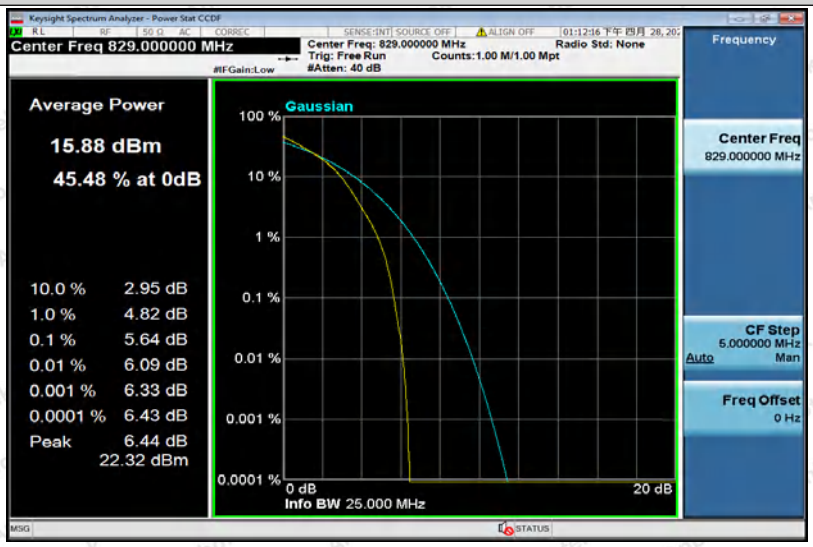

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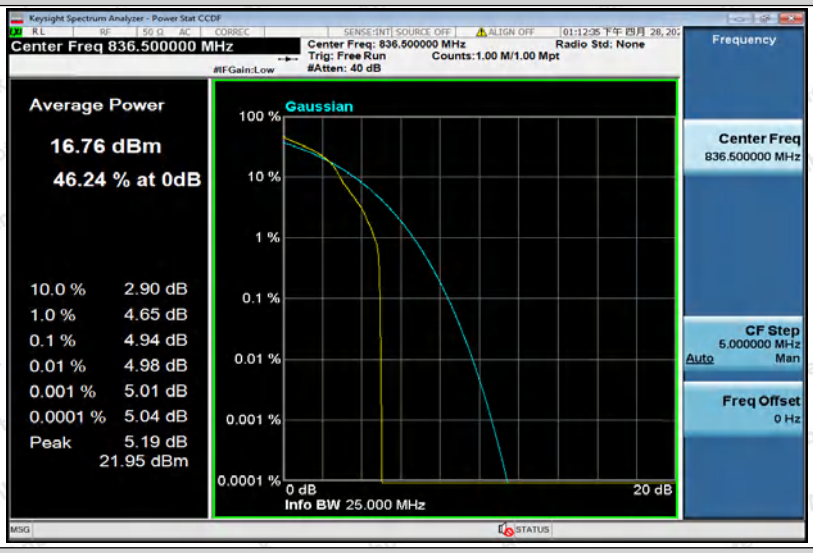

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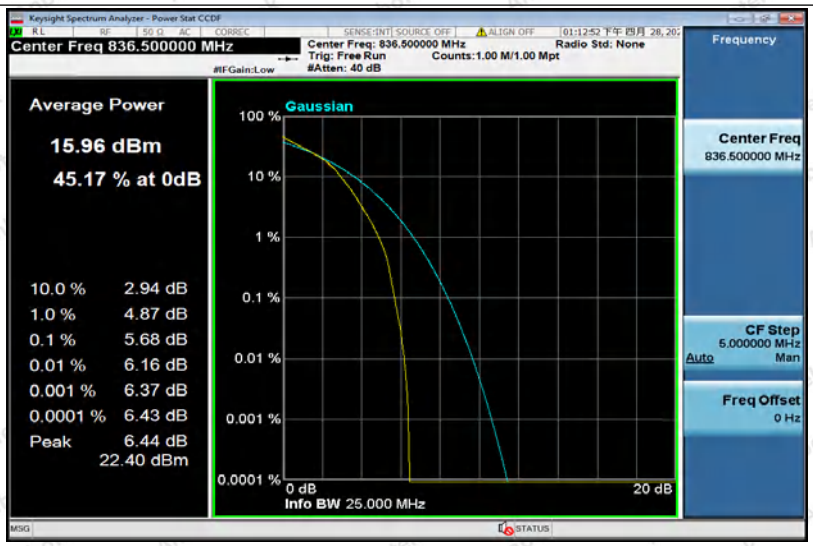

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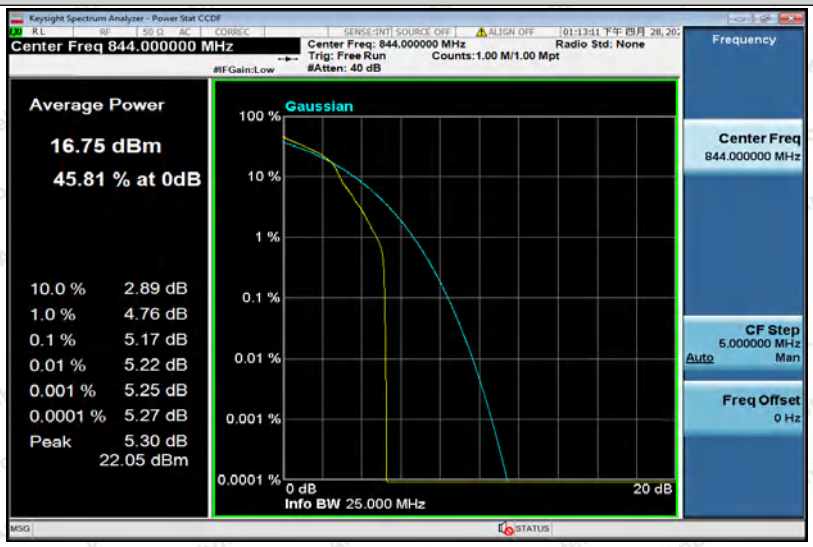

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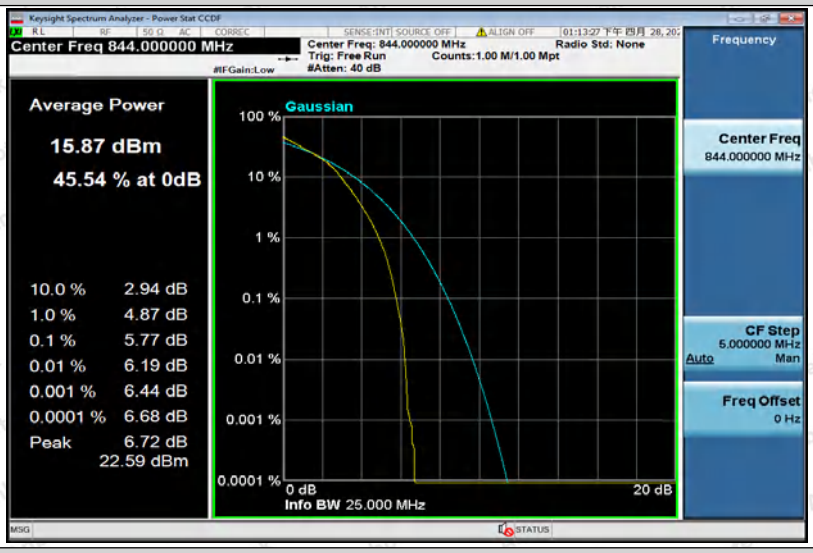

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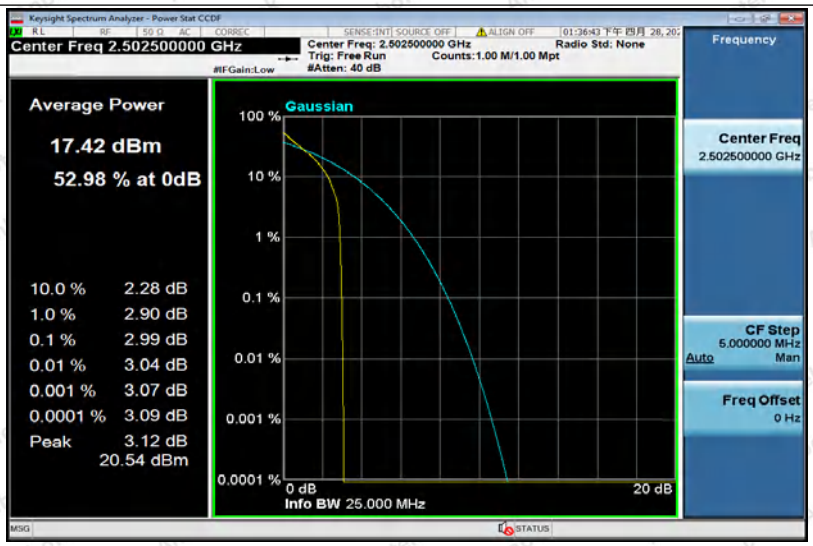

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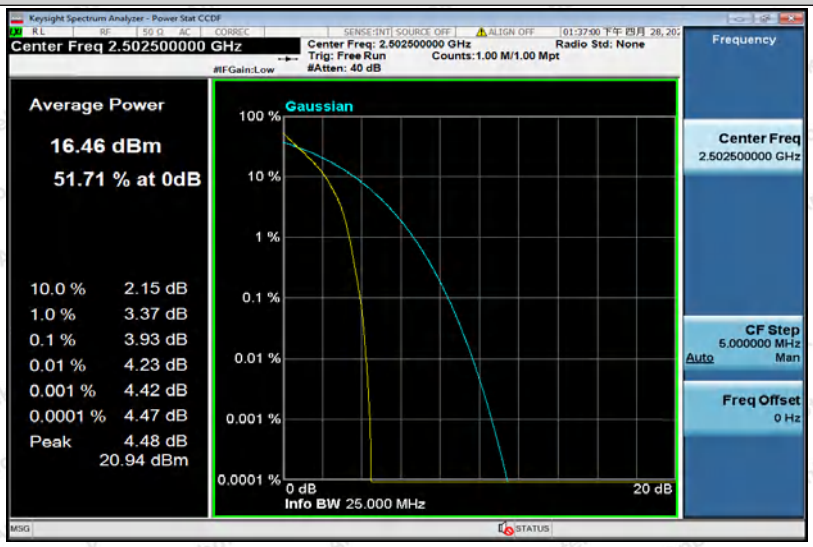

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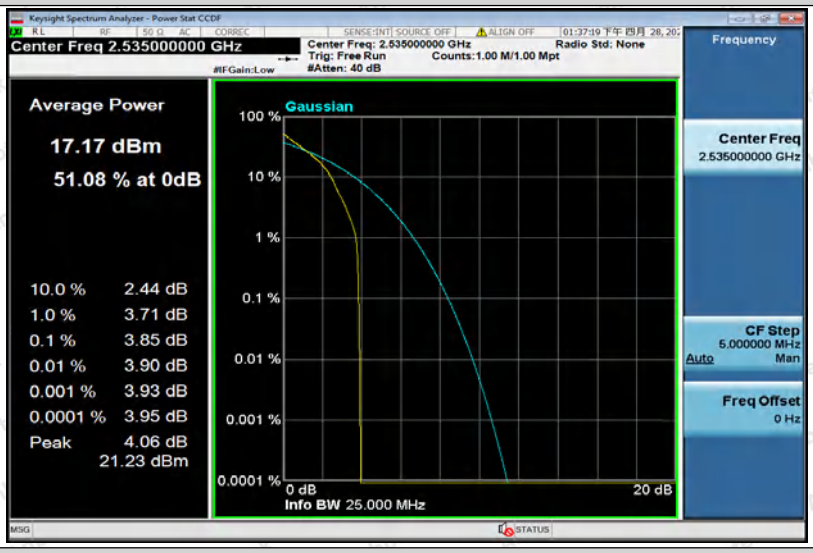

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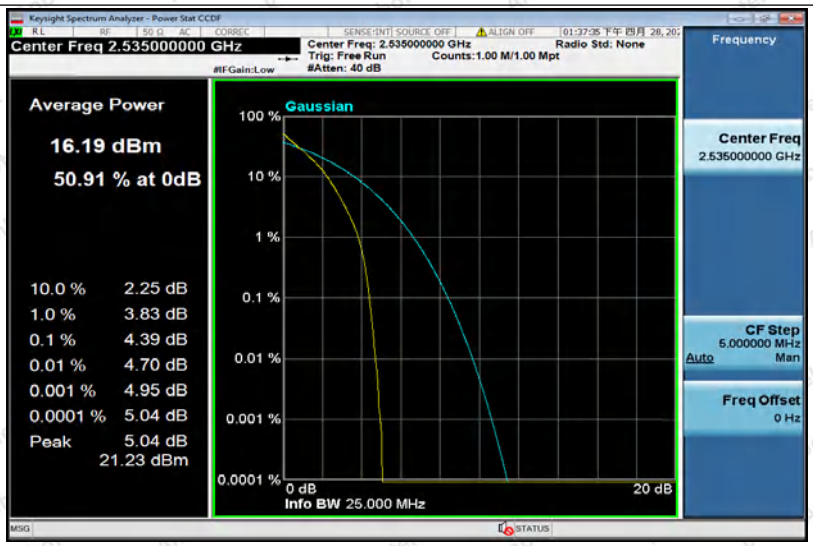

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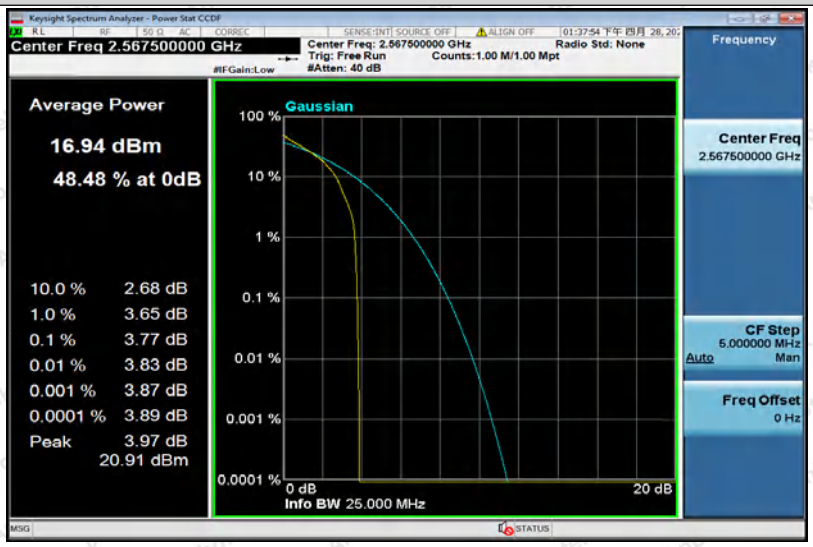

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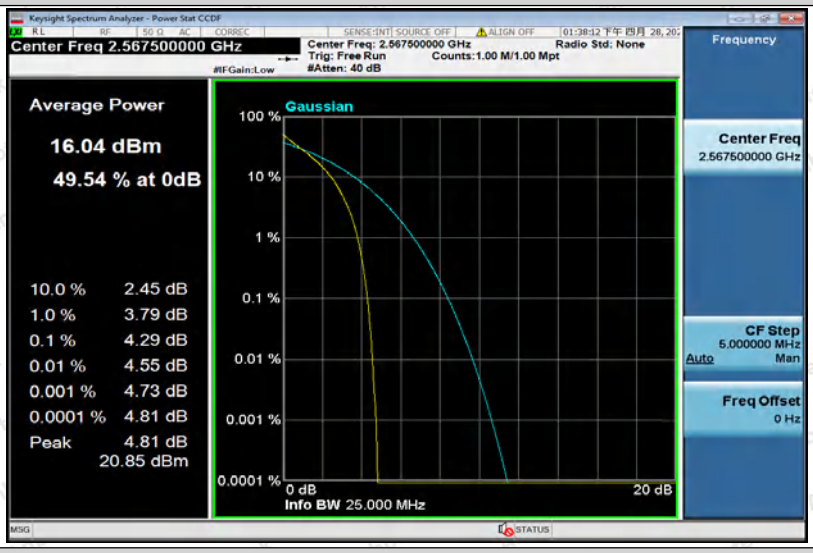

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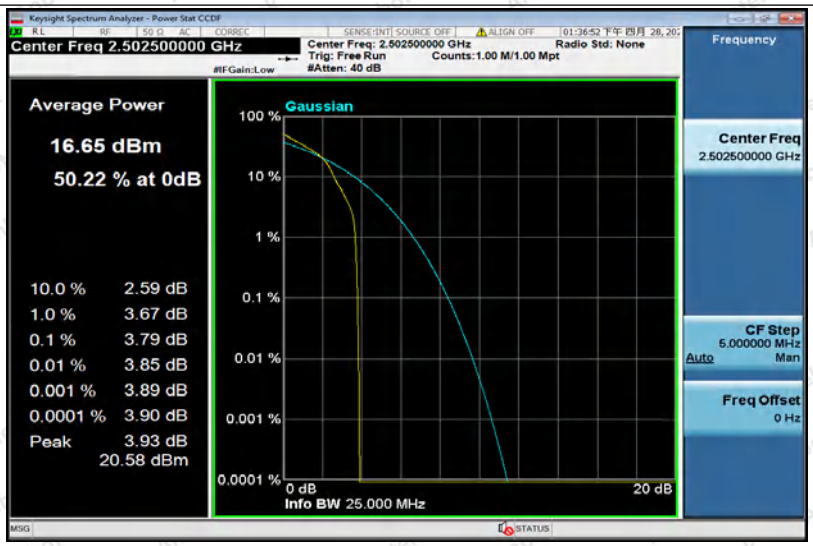

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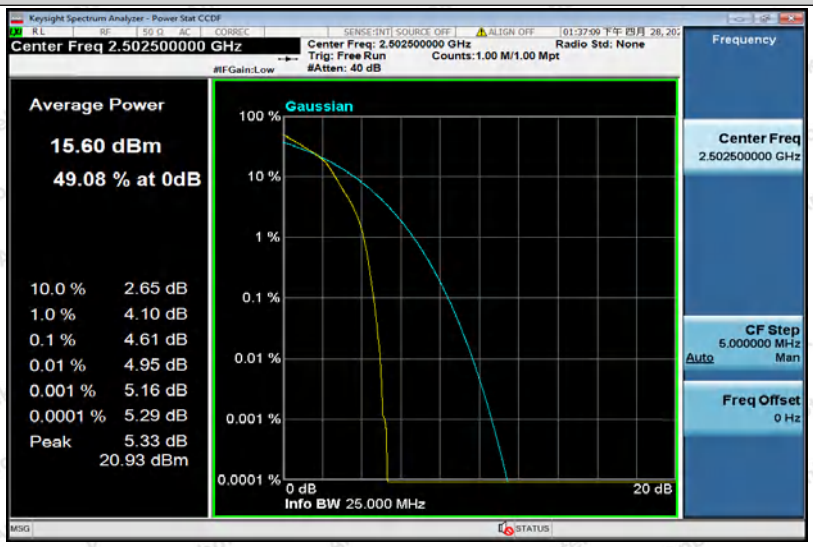

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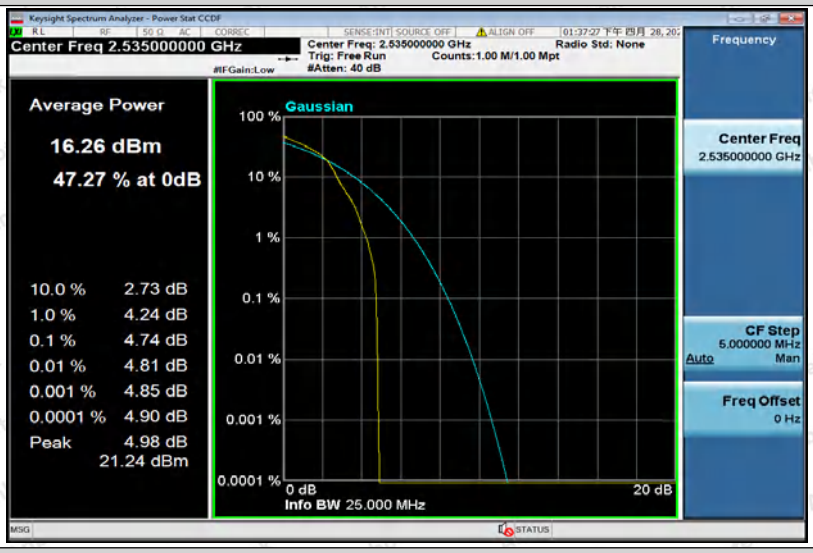

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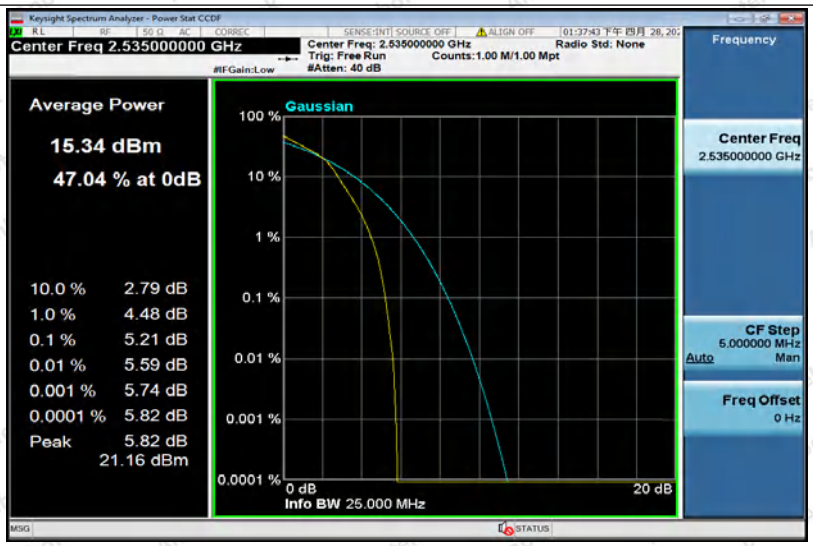

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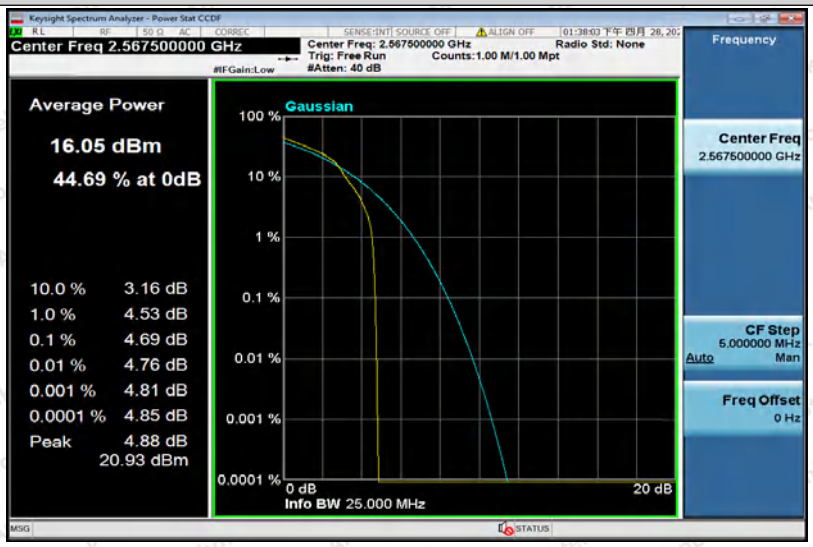

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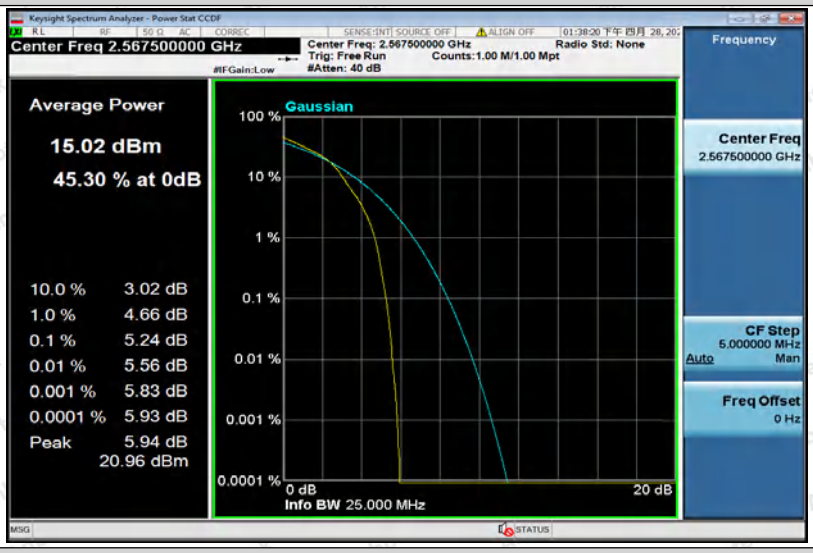

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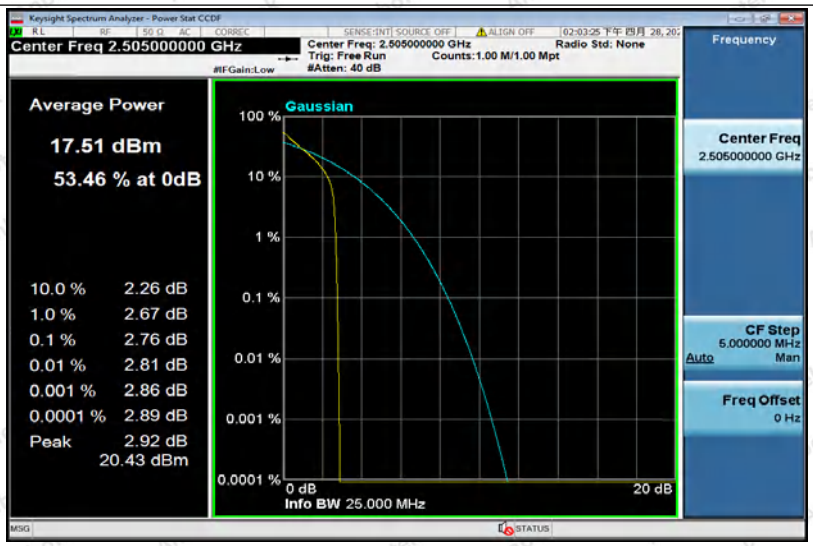

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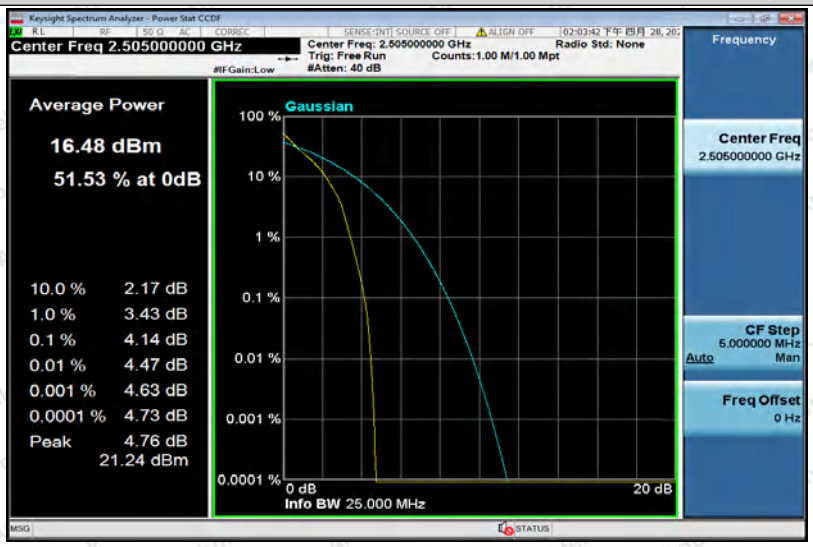

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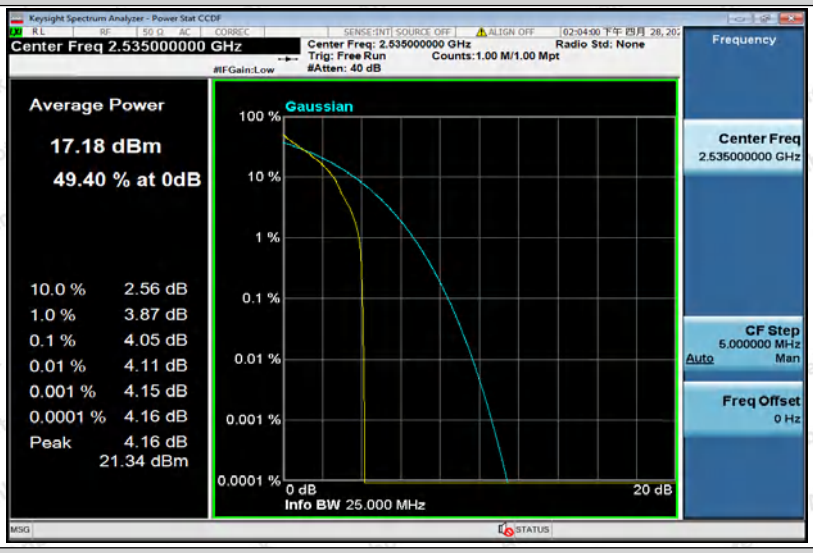
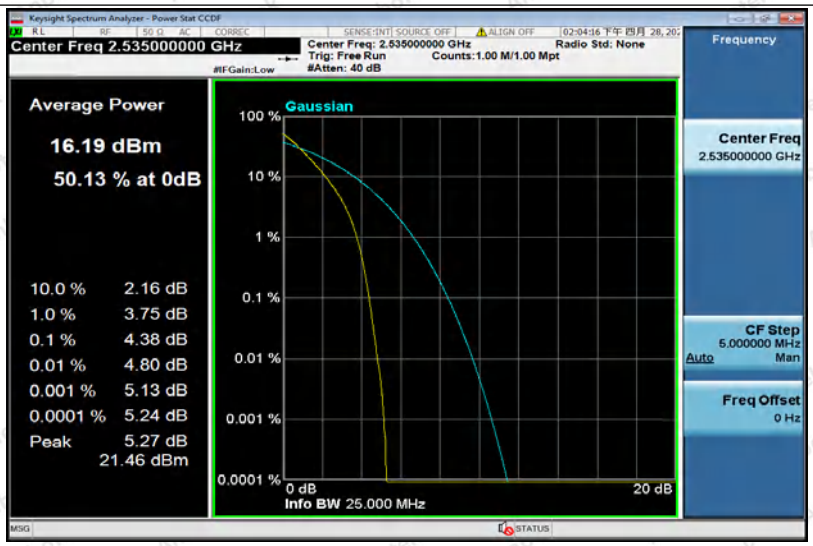
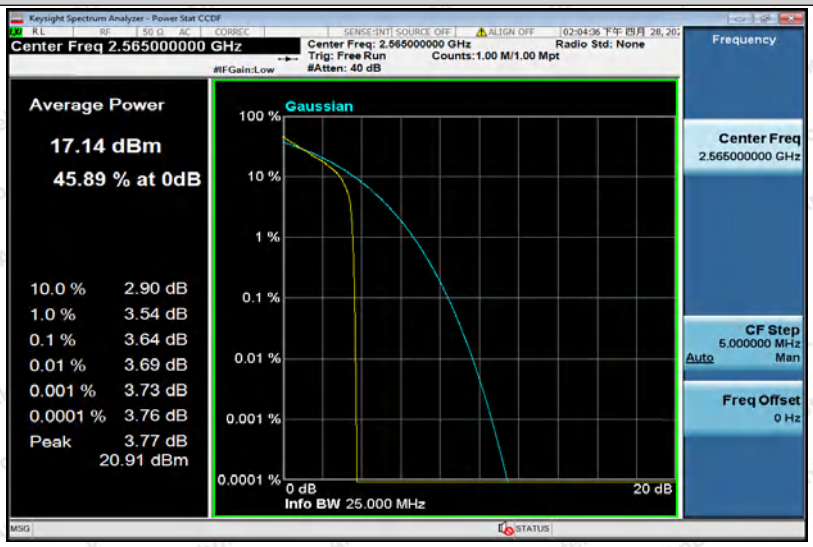


Band7-10MHz-QPSK-21100-50RB#0



Band7-10MHz-QPSK-21400-1RB#0



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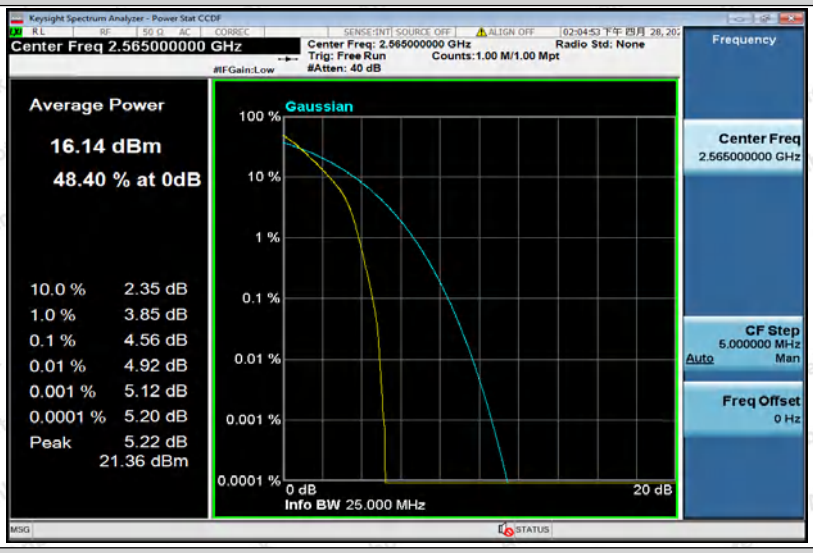

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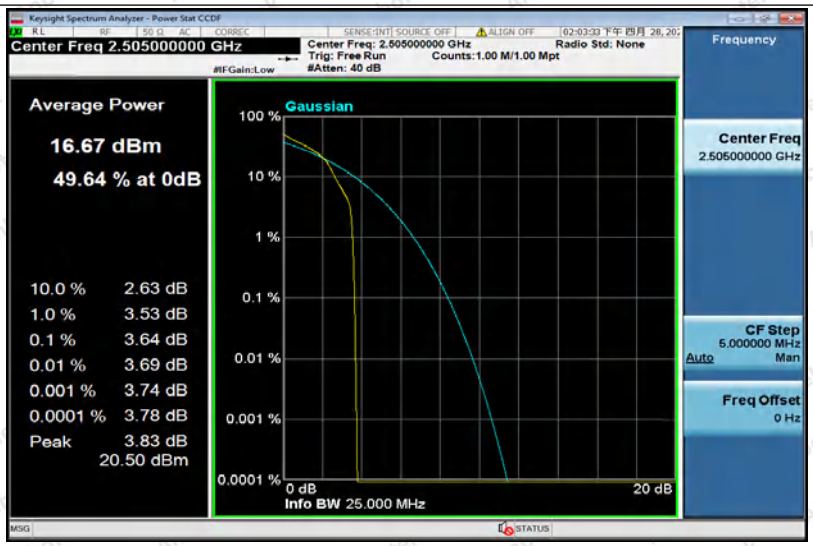

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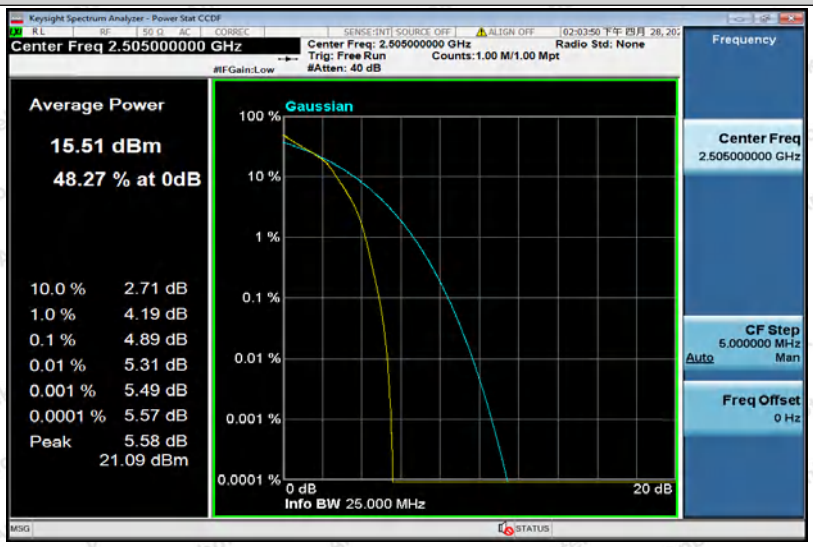

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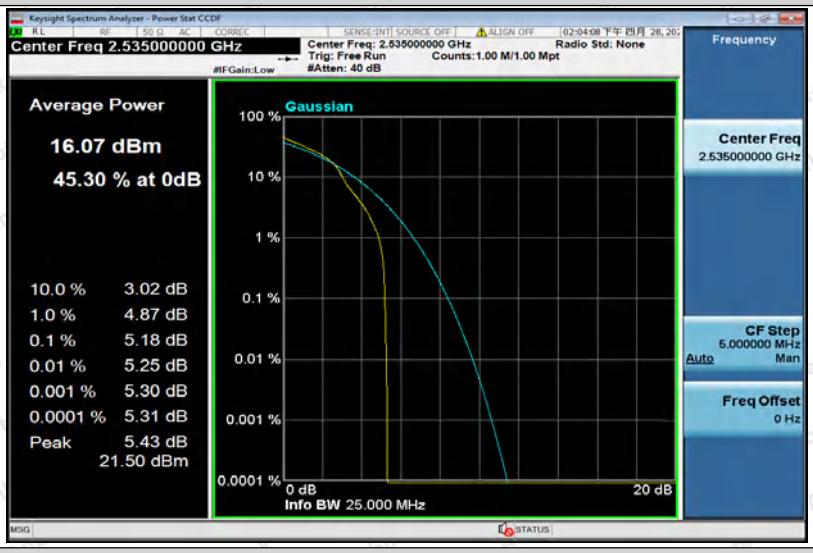

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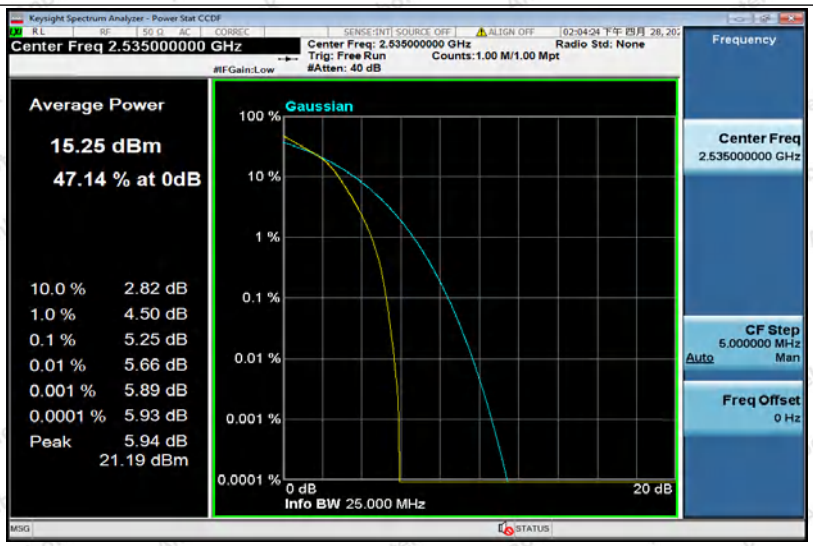

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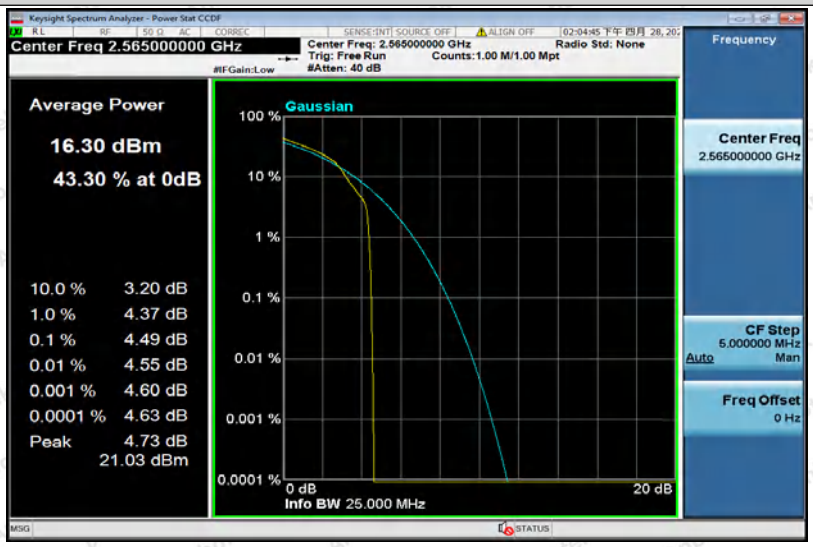

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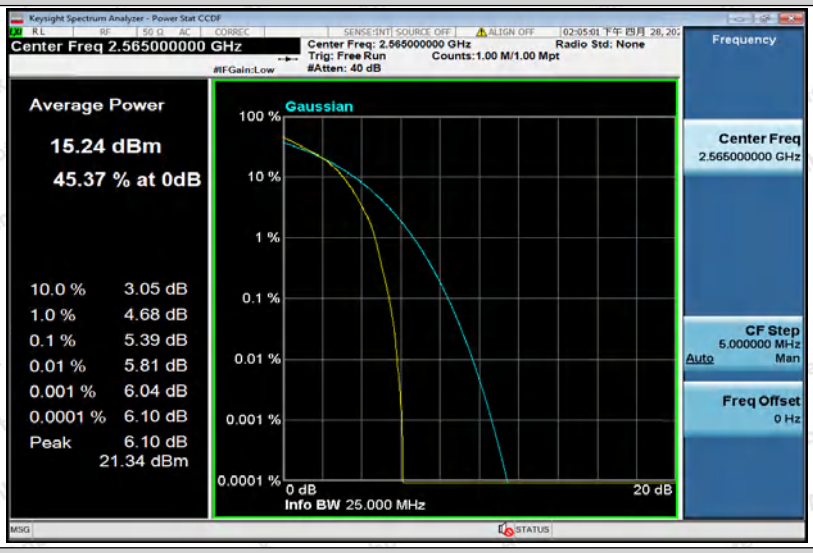

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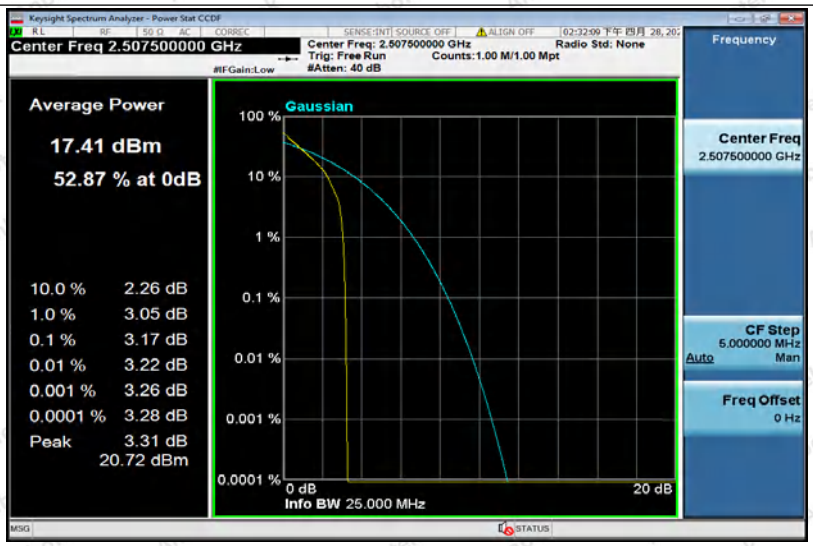

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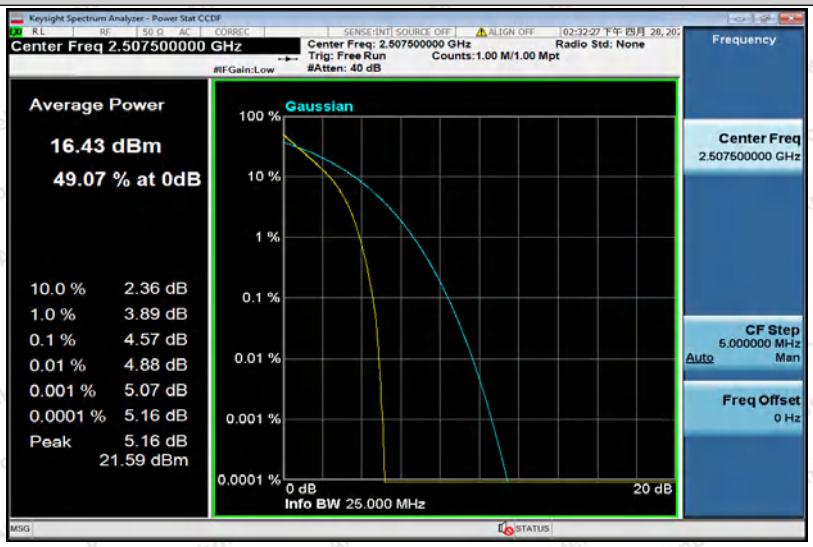

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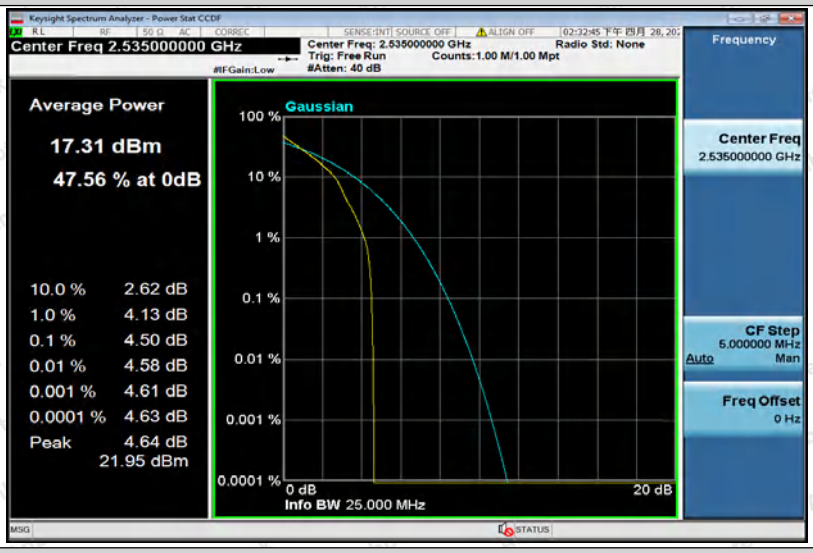

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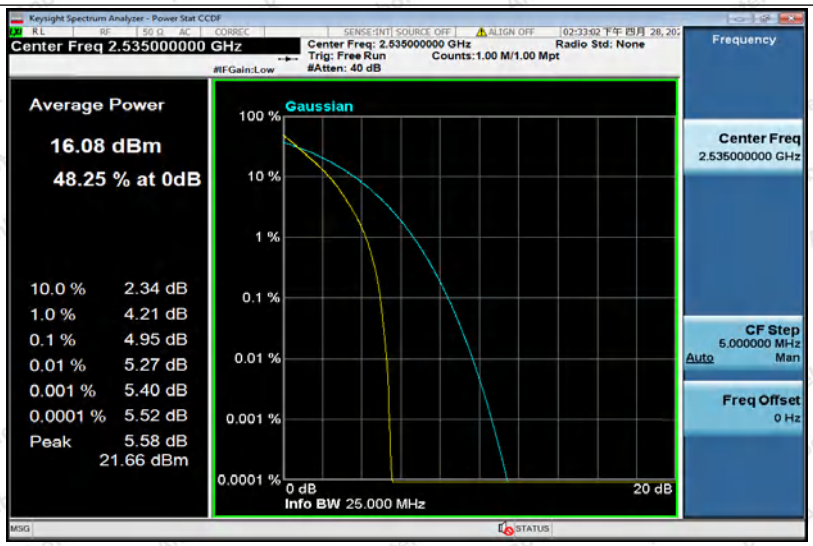

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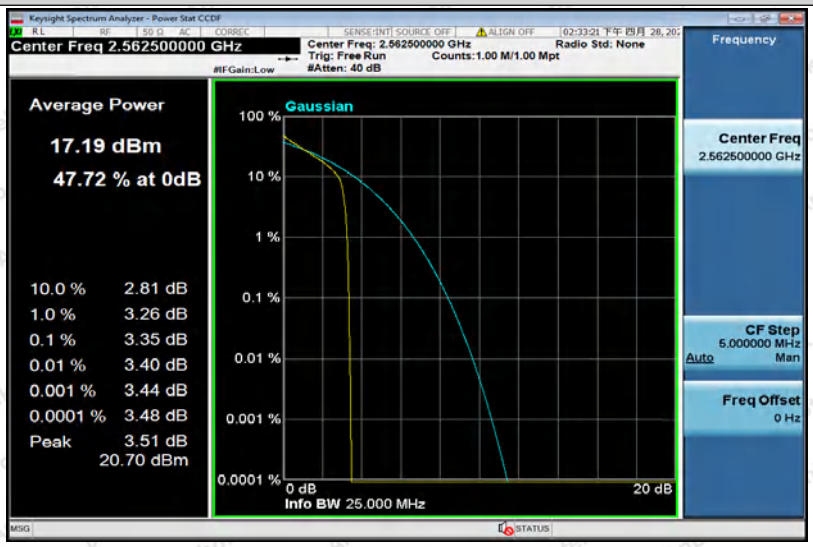

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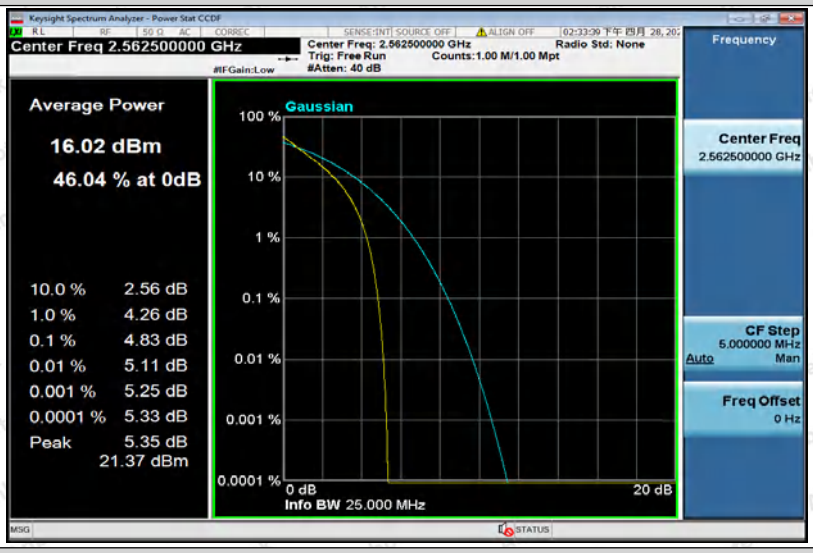

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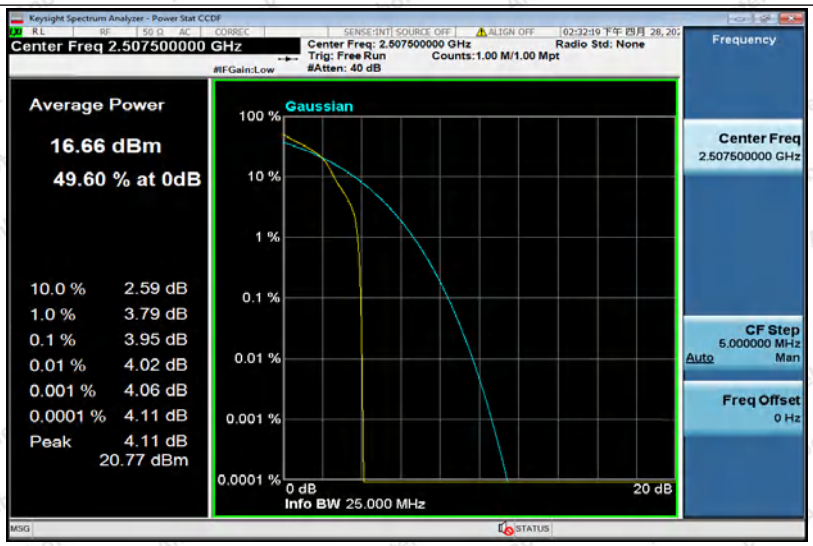

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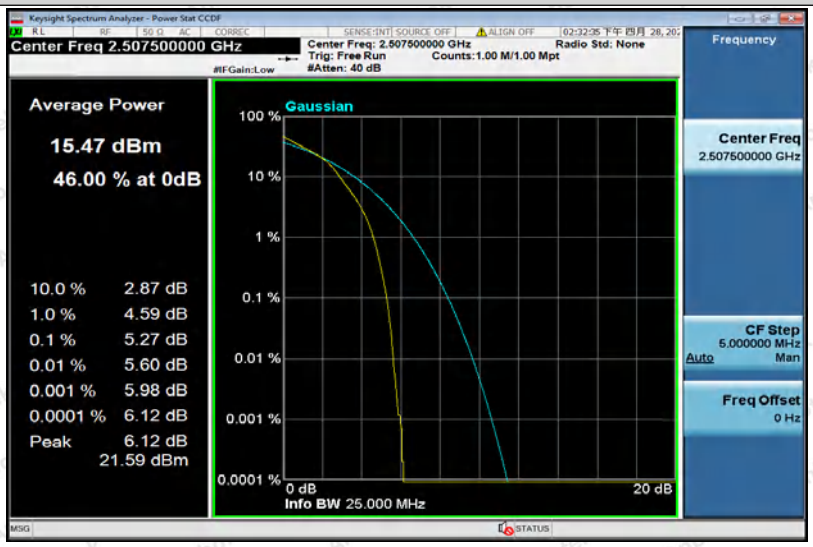

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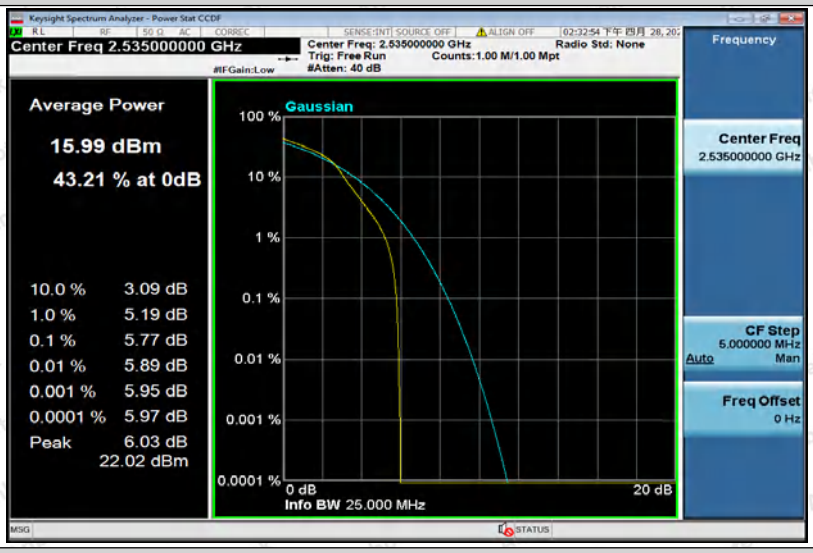

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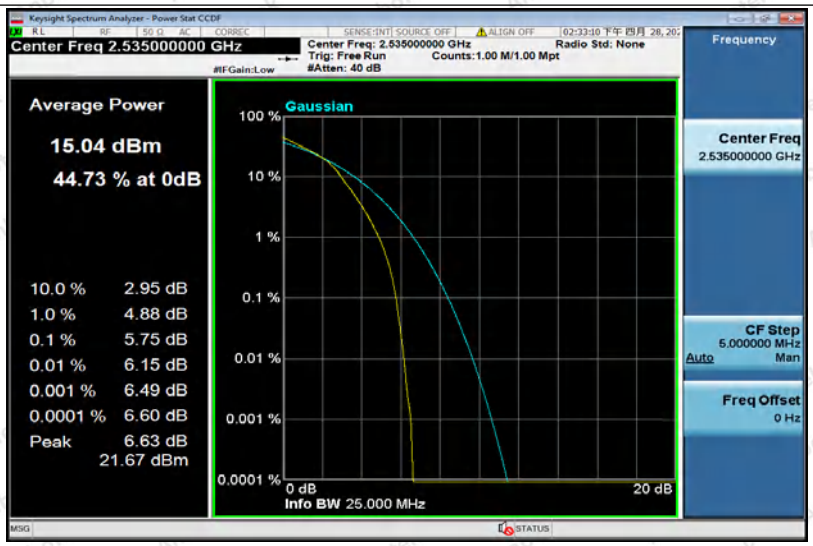

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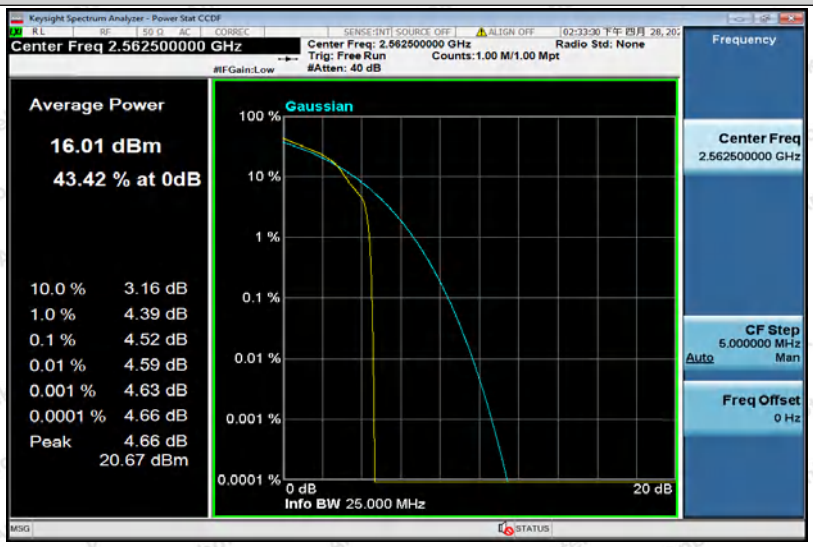

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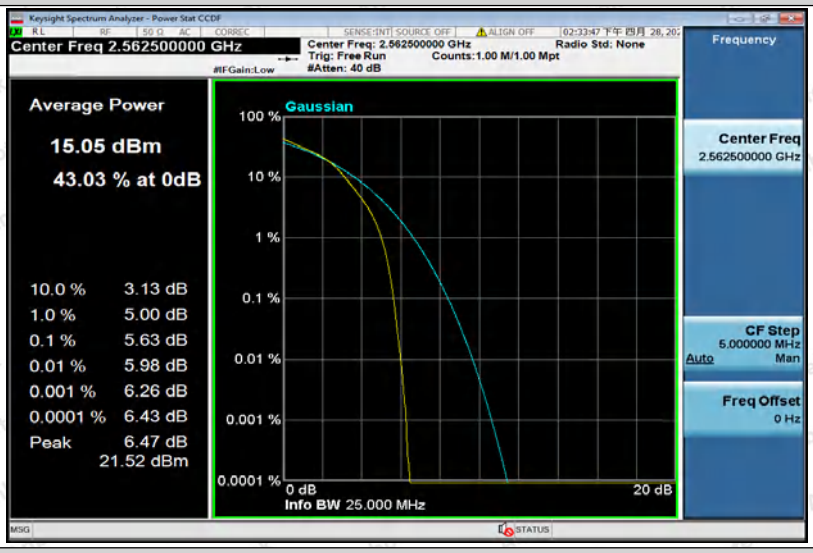
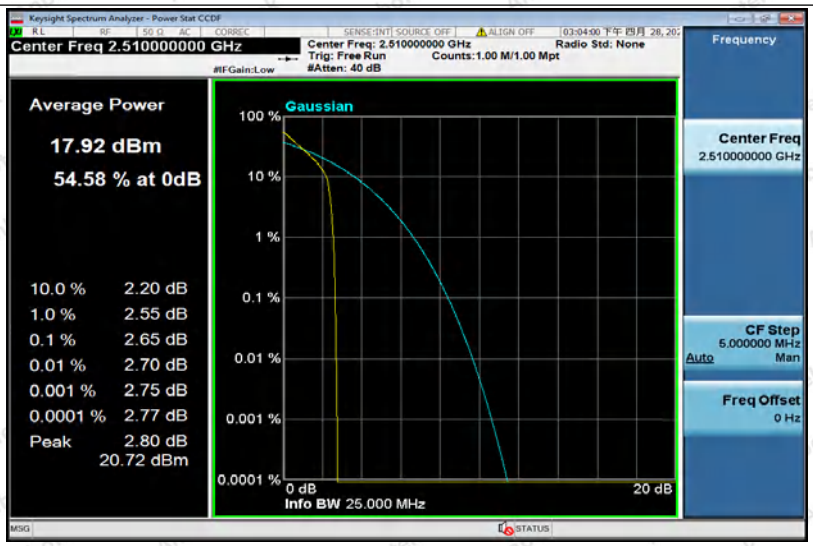


Band7-20MHz-QPSK-20850-1RB#0



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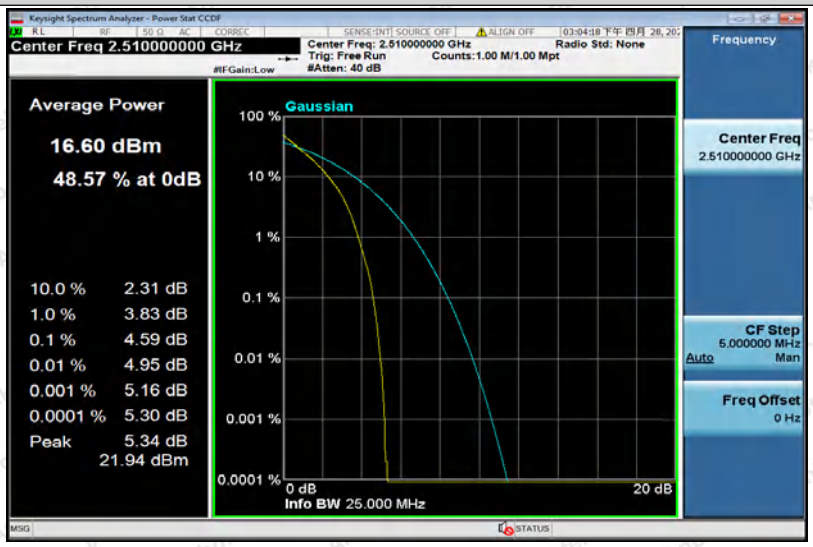

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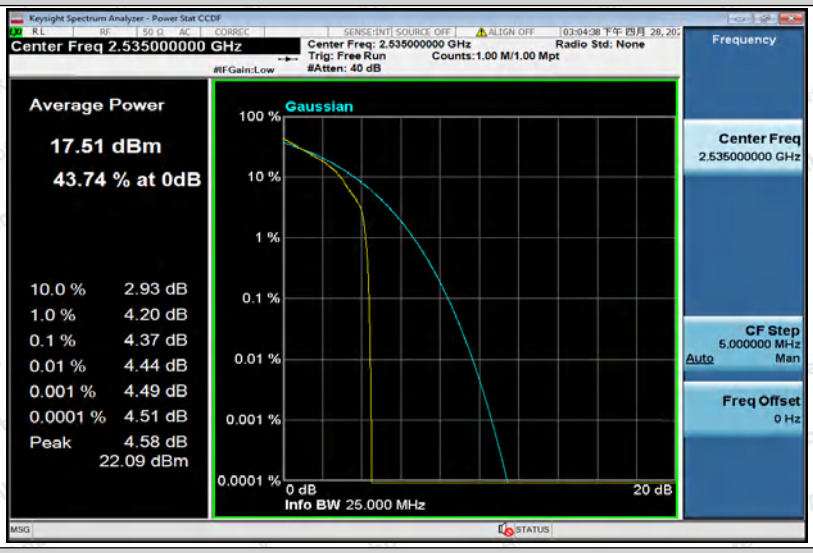

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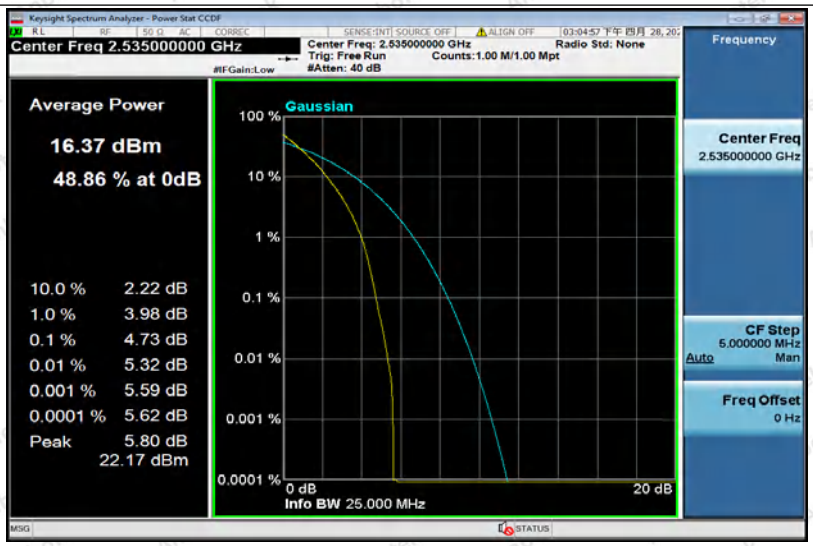

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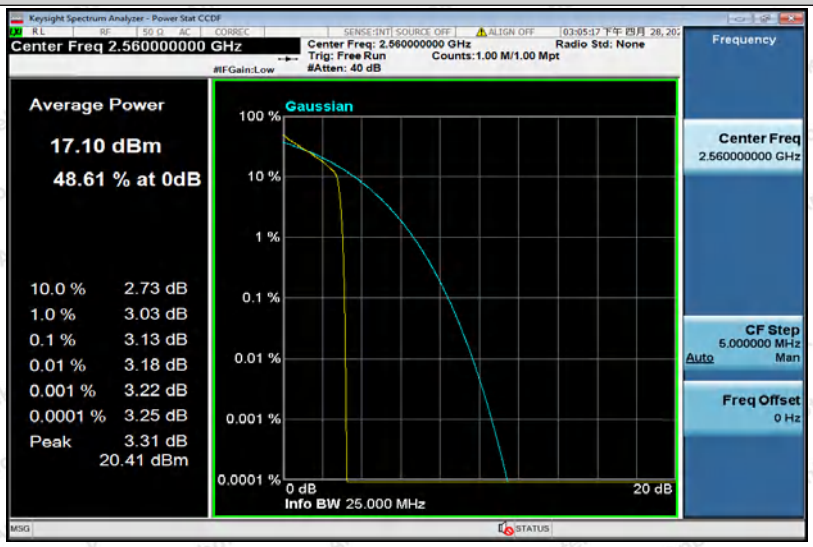

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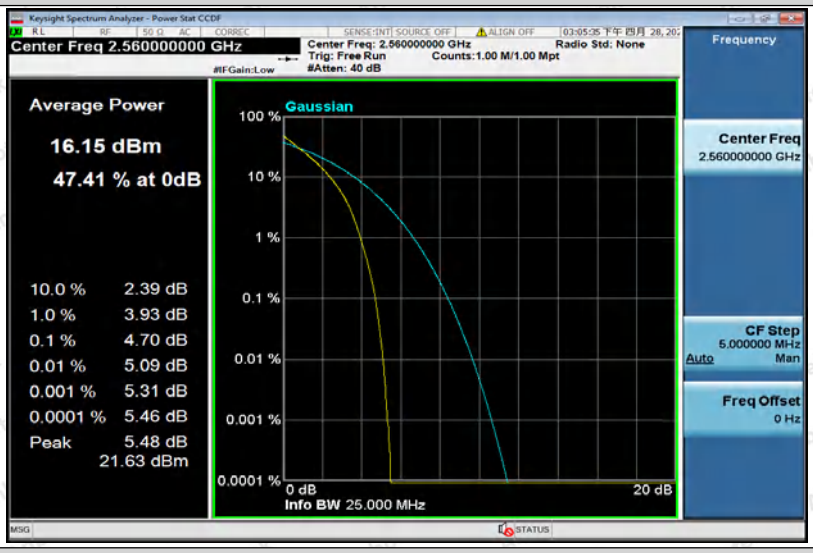

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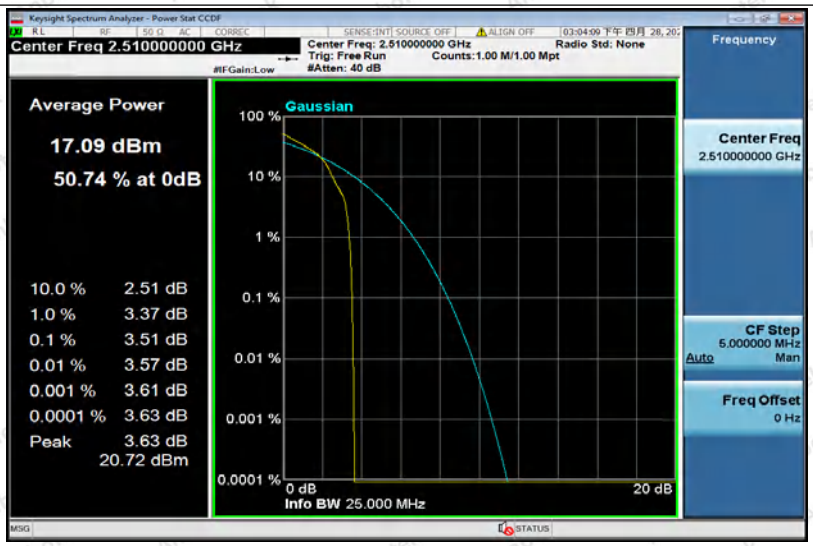

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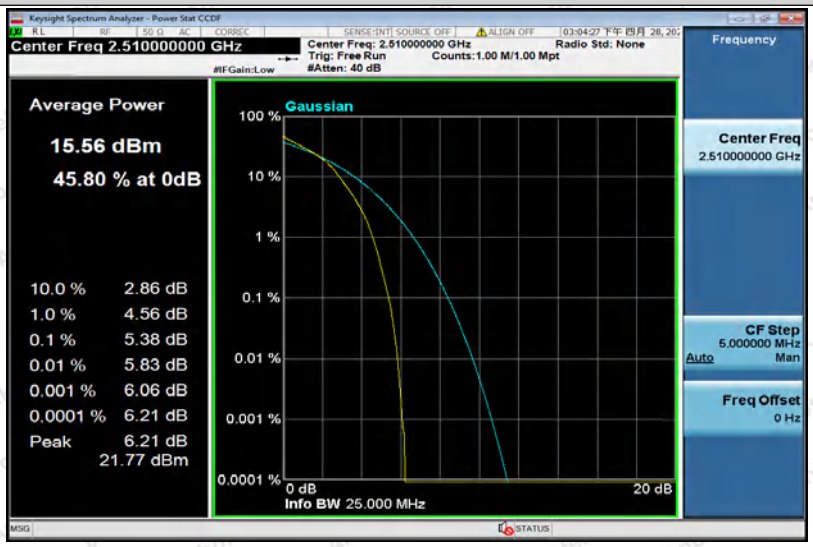

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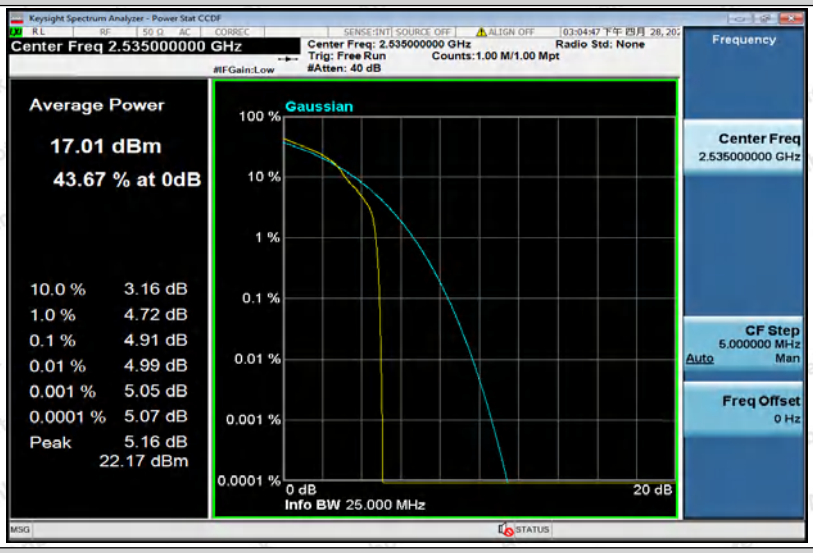

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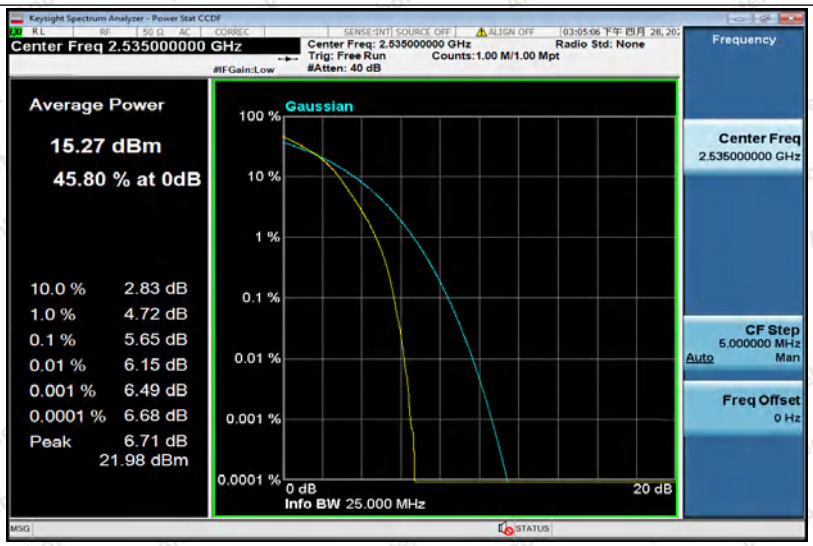

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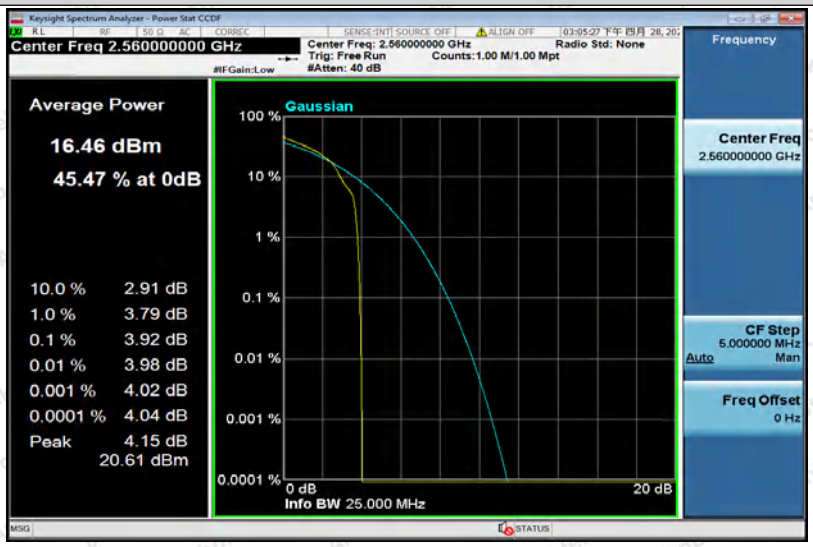

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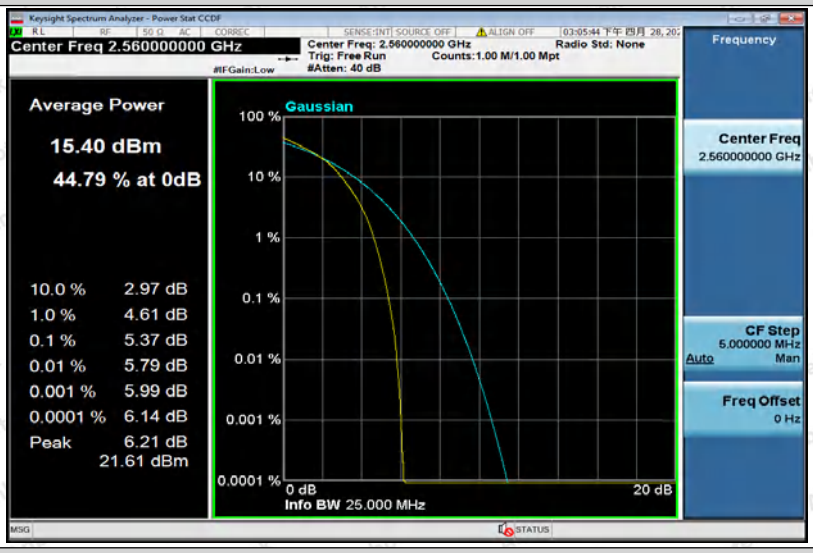

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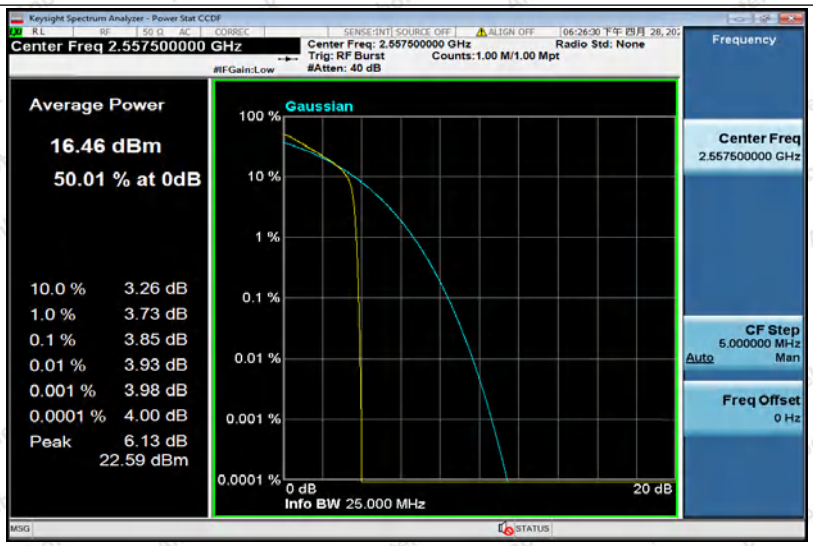

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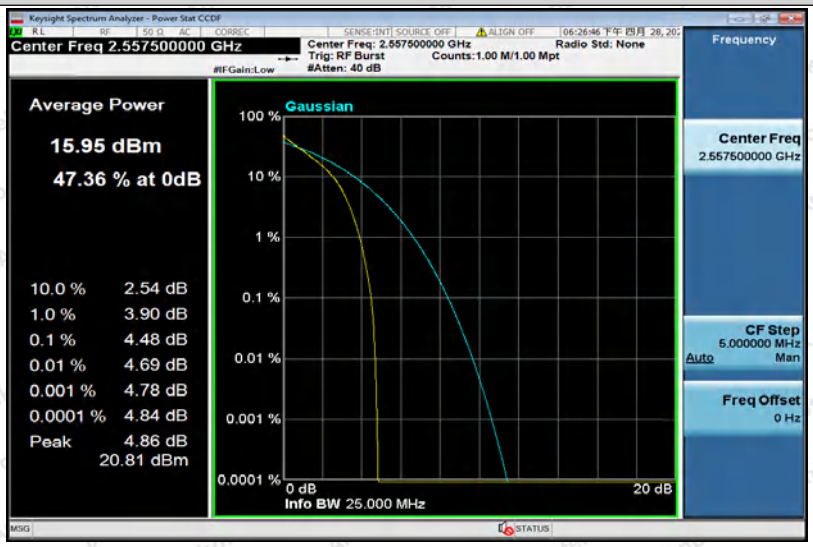
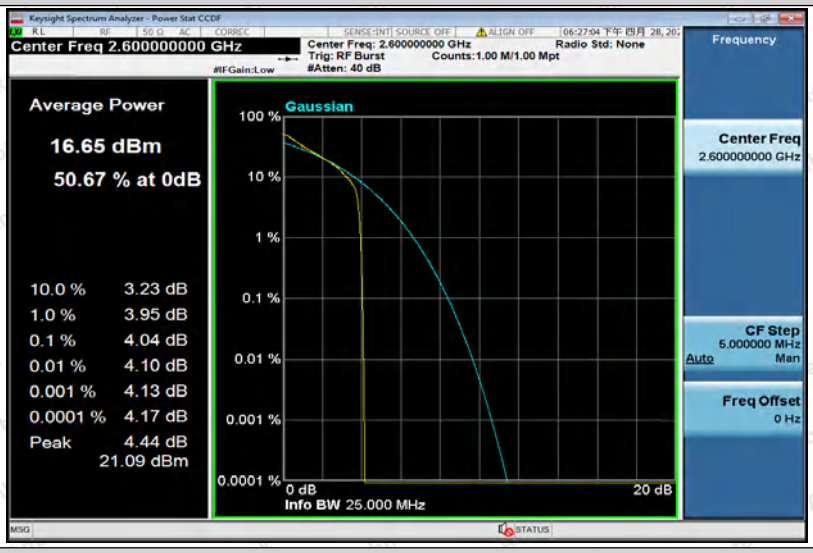


Band41-5MHz-QPSK-40690-1RB#0



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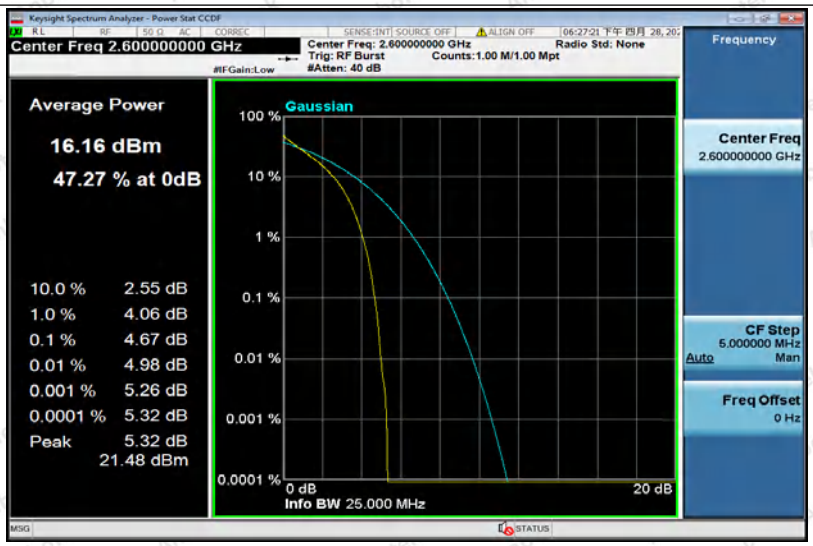

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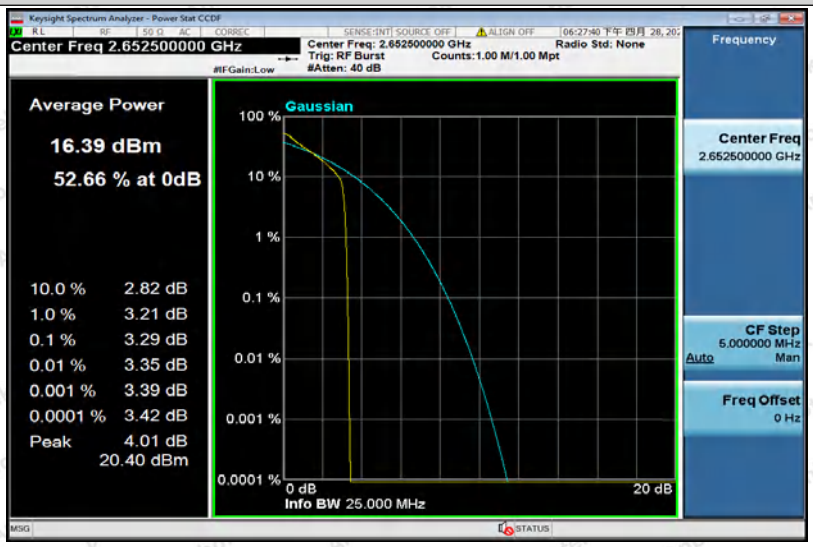

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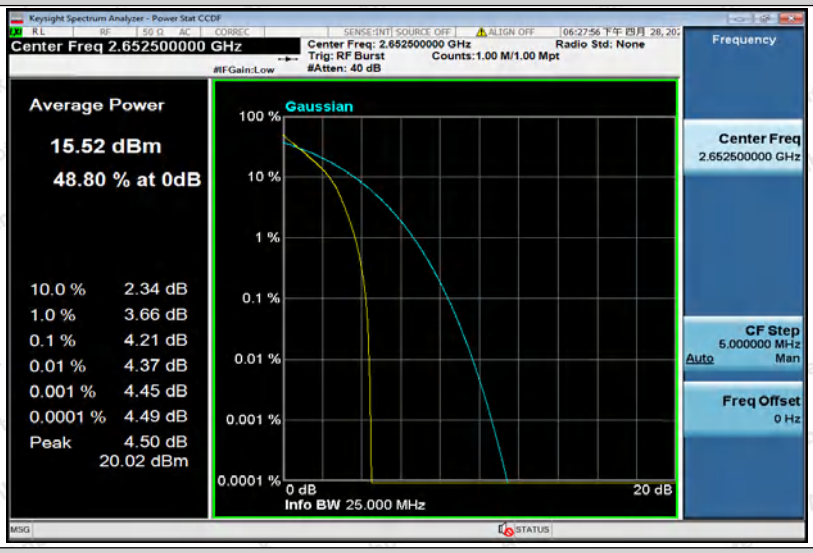

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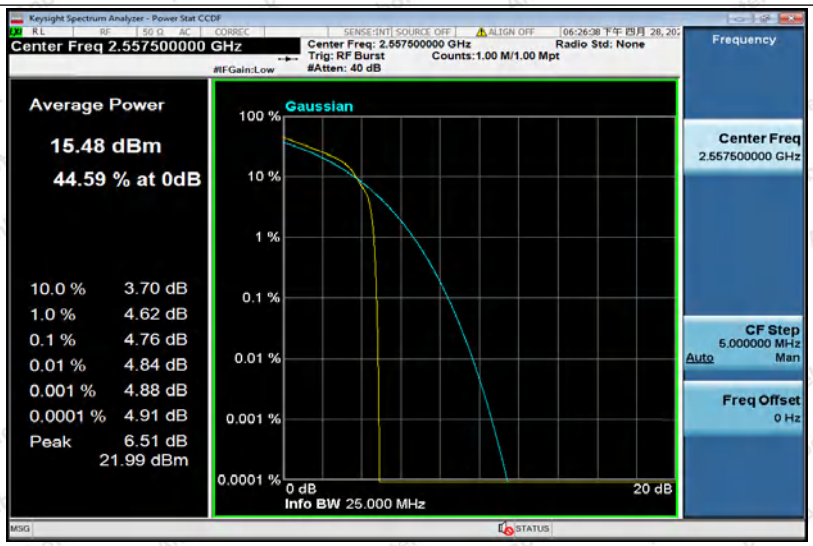

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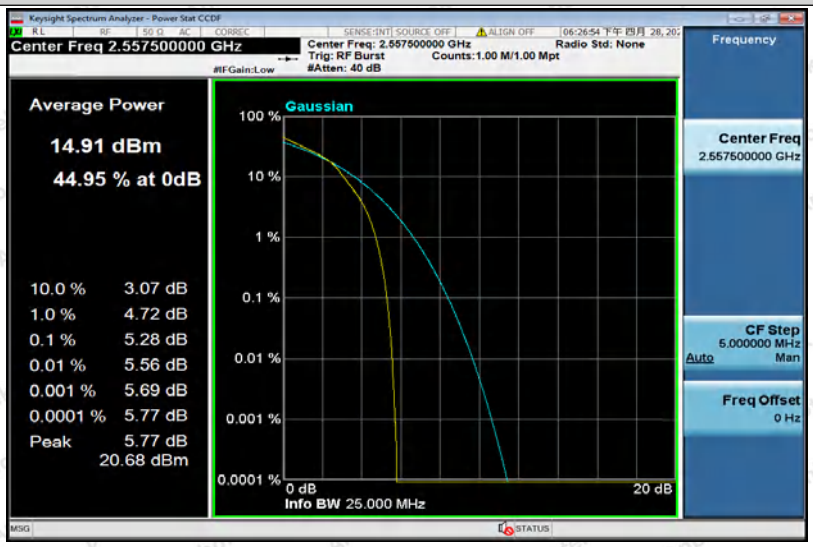

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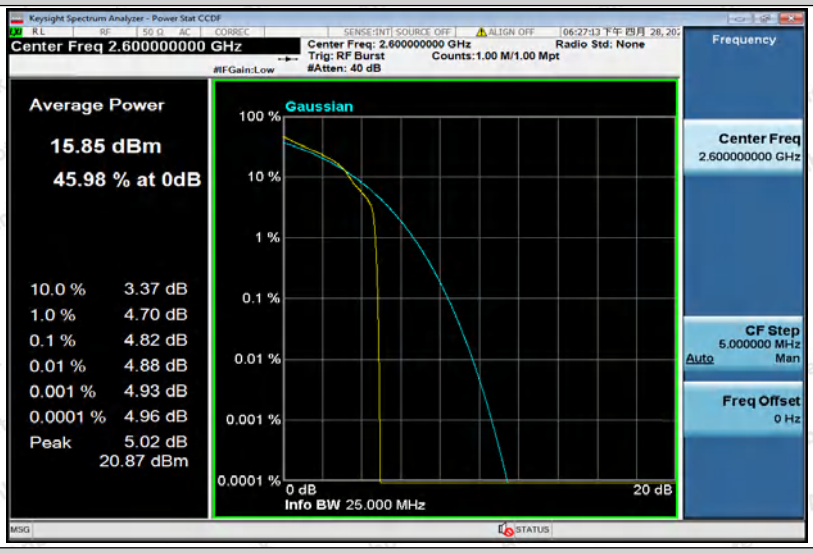

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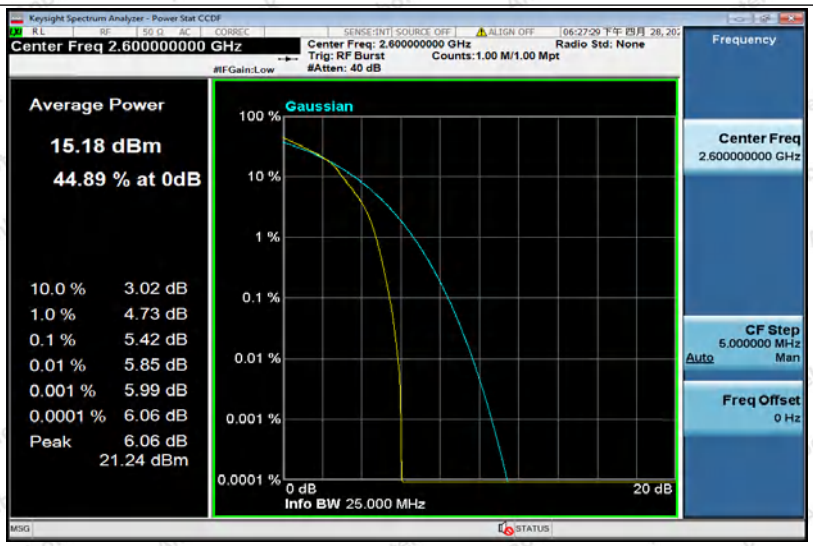

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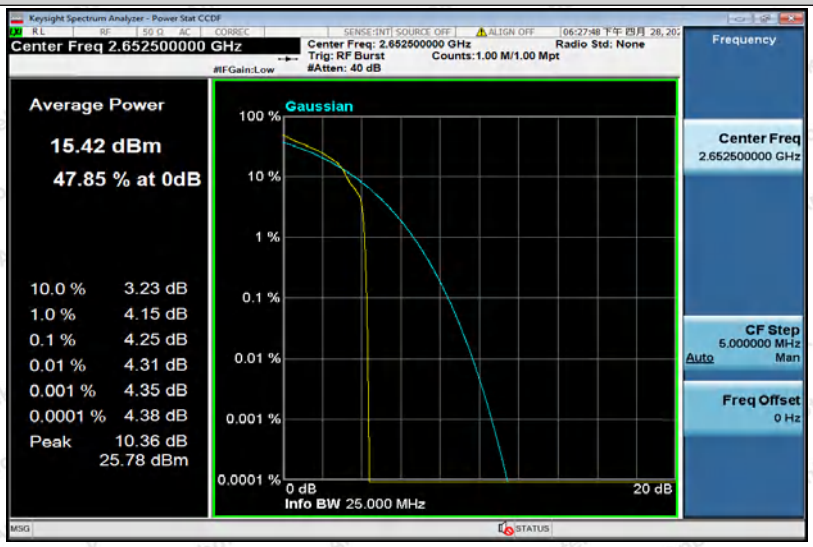

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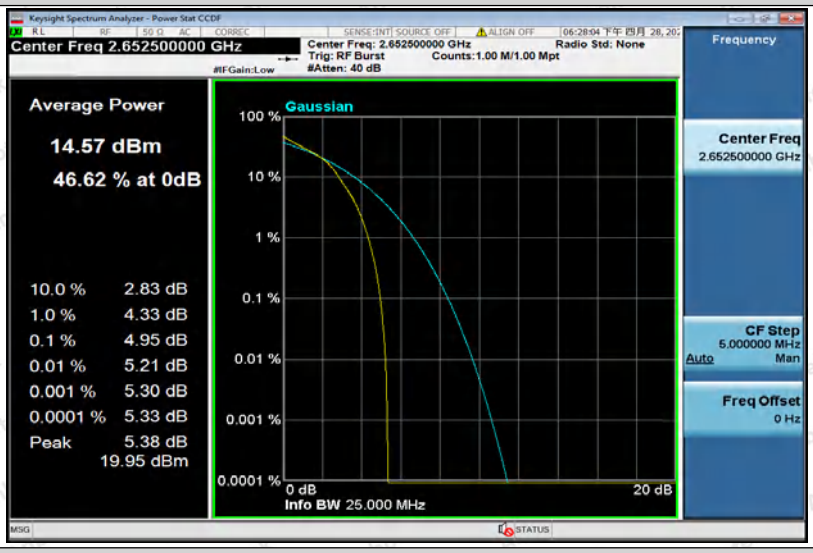
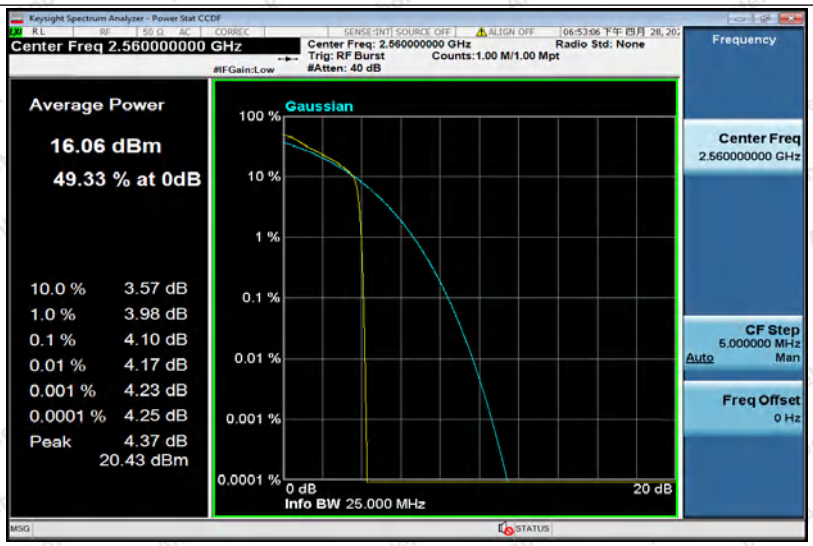
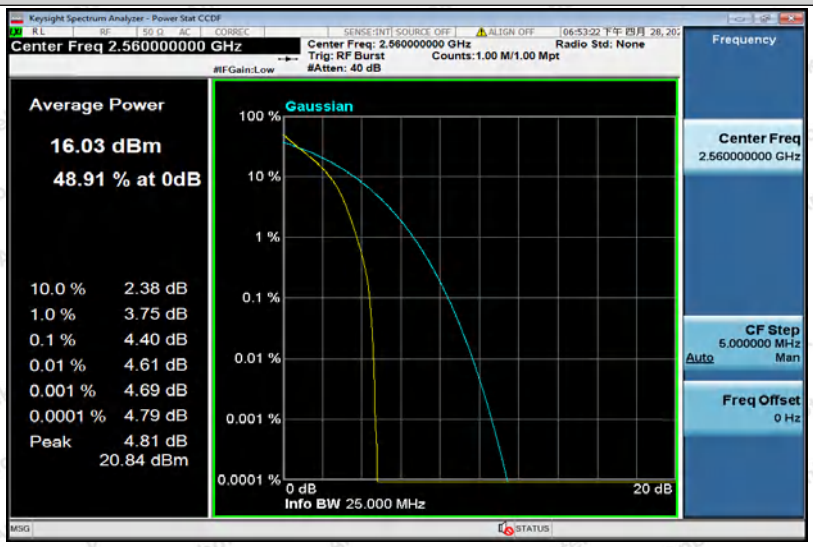


Band41-10MHz-QPSK-40290-1RB#0



Band41-10MHz-QPSK-40290-50RB#0



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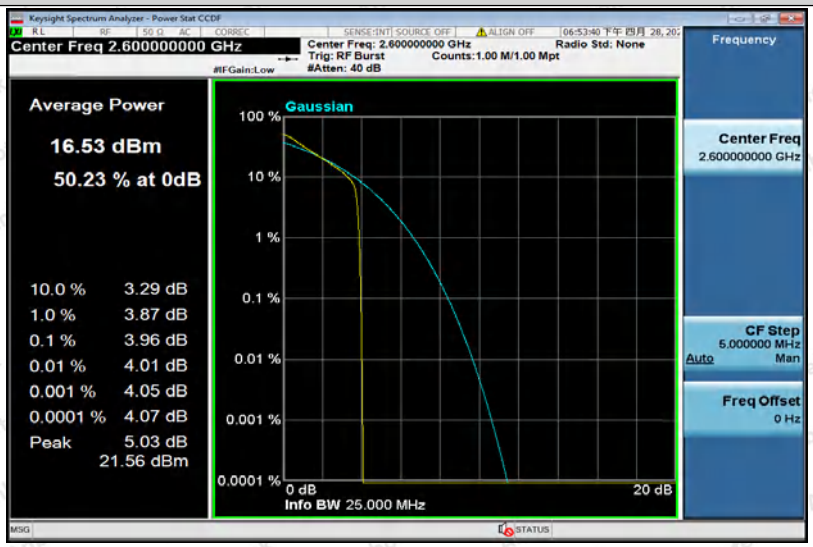

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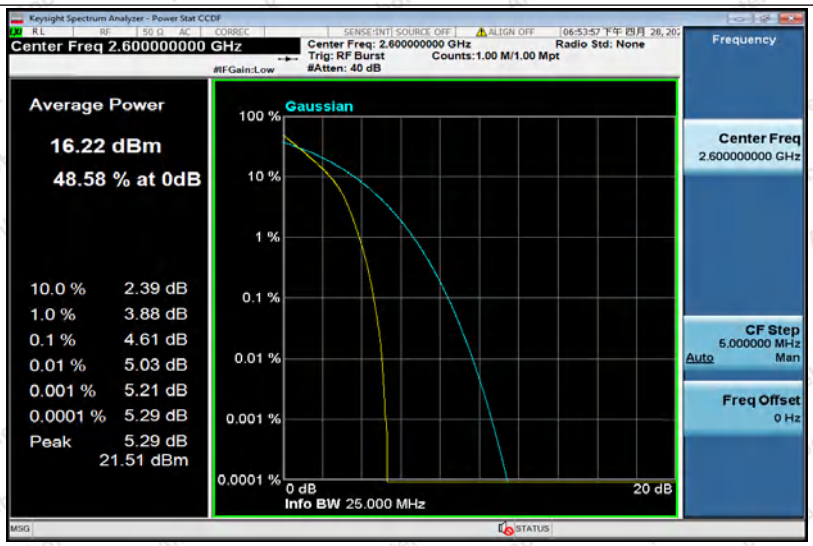

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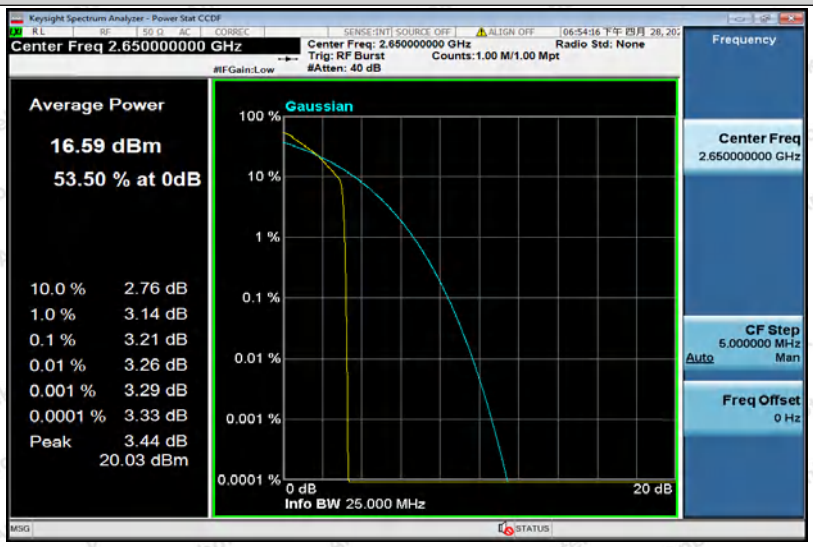

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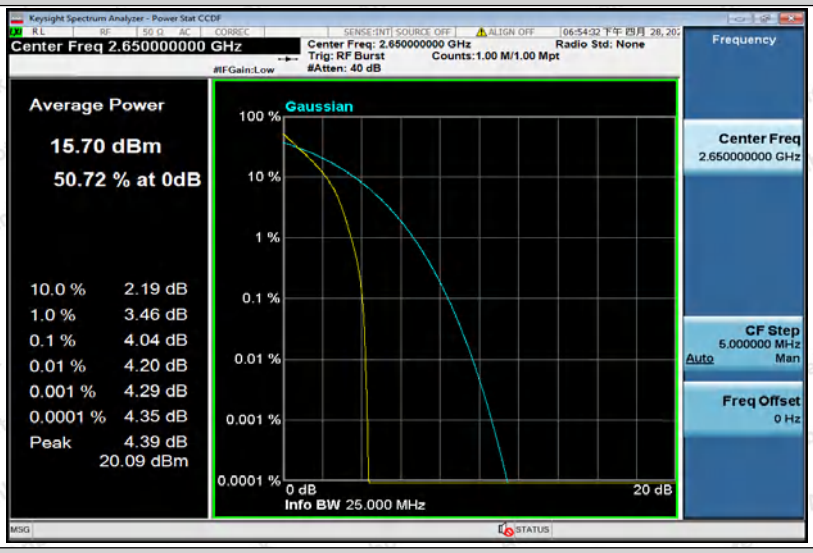

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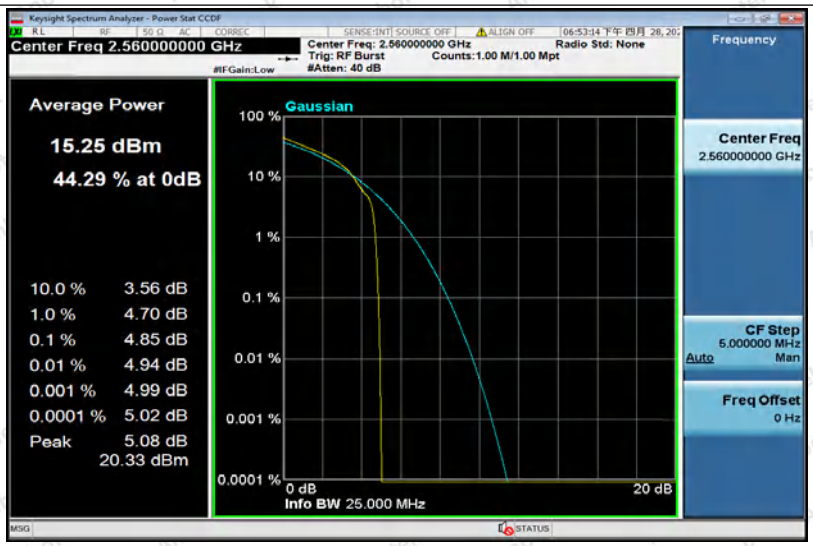

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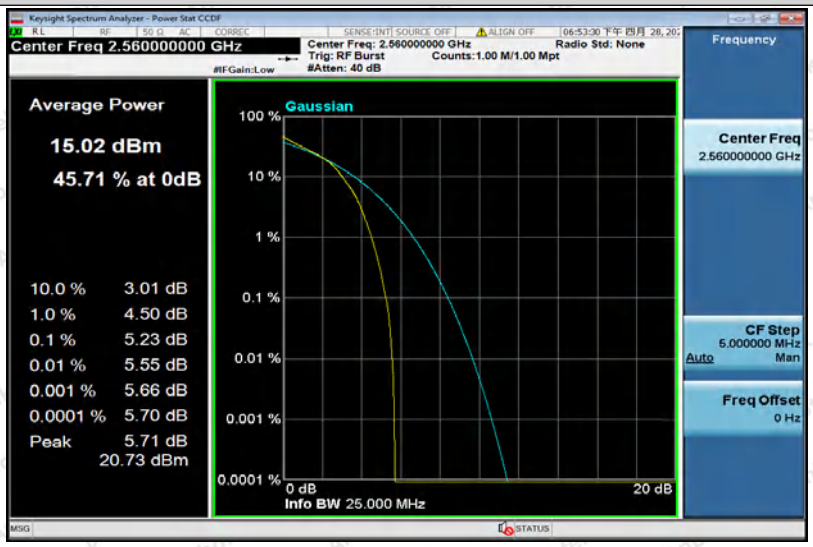

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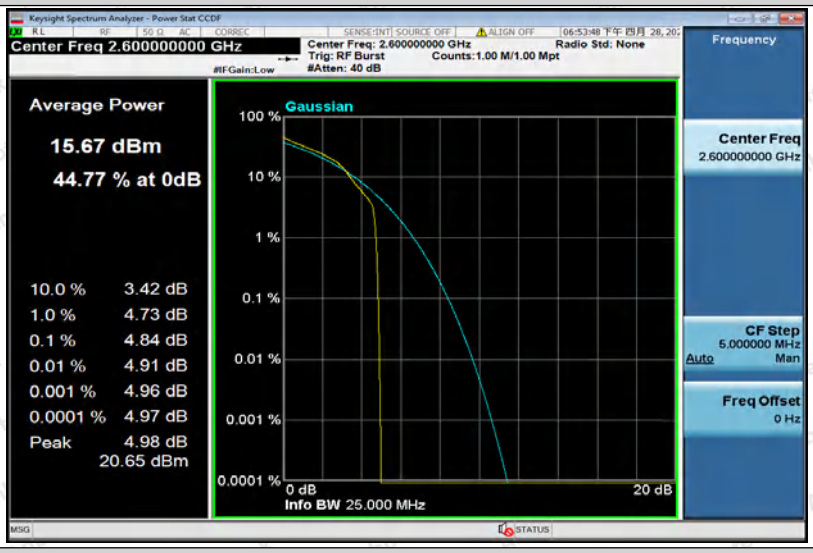

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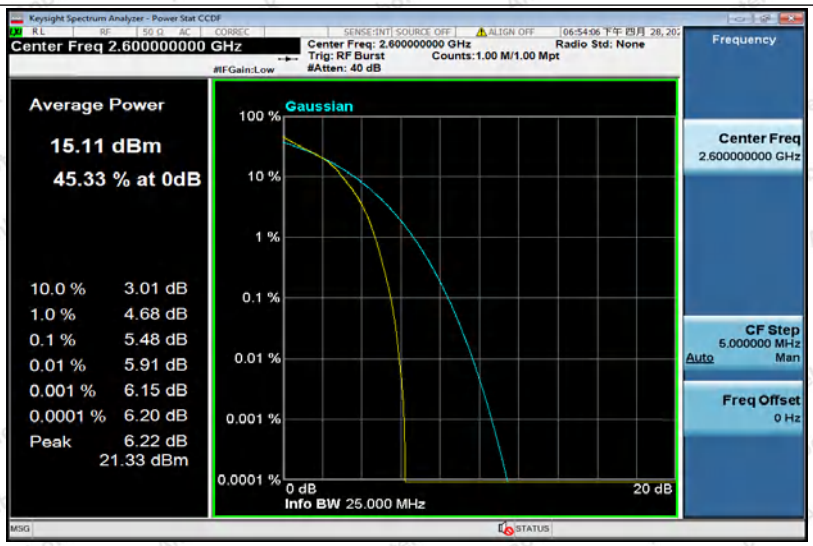

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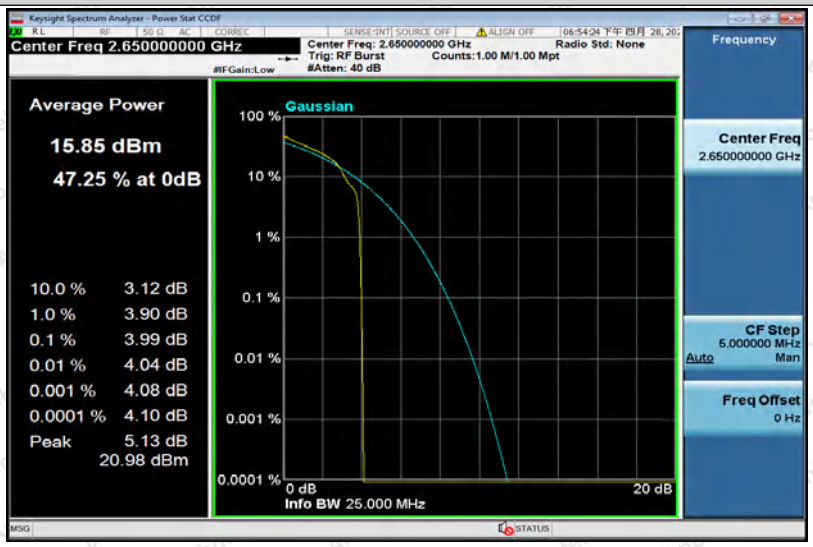

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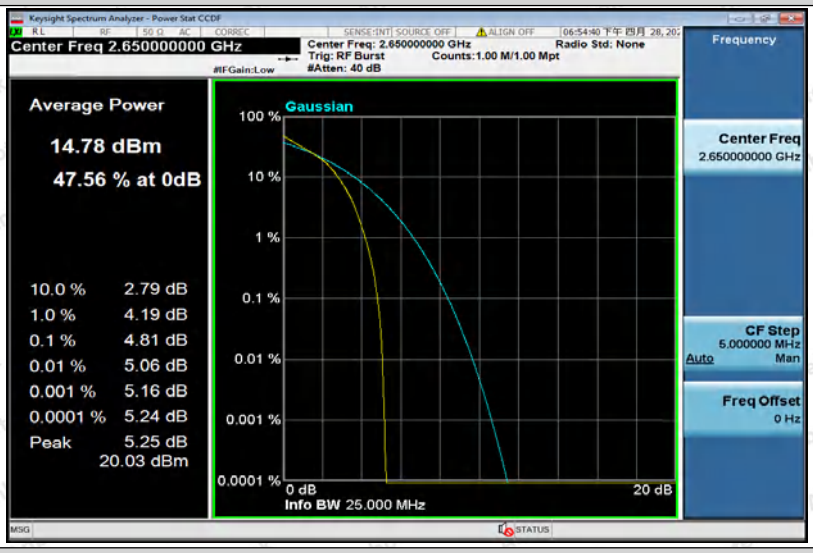

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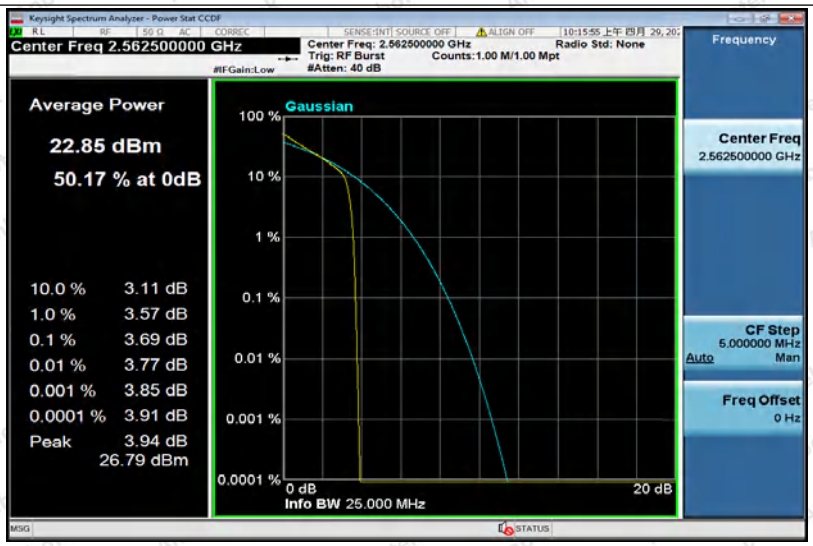

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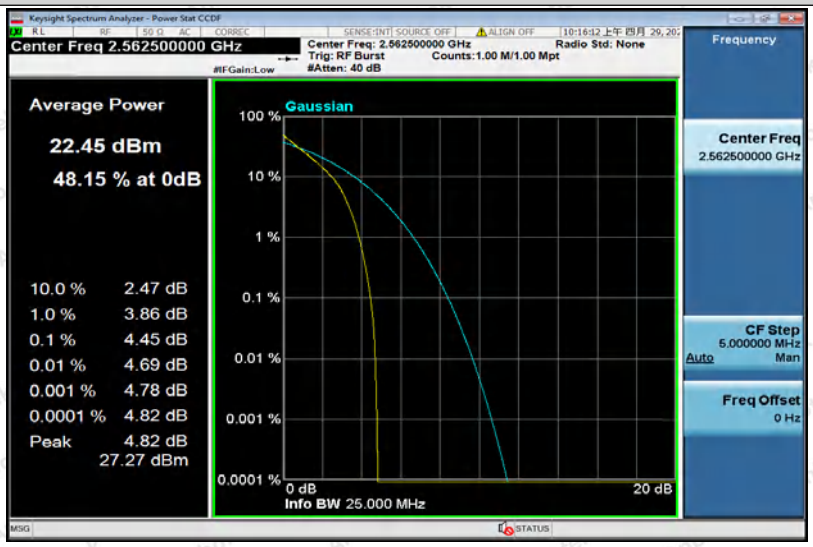

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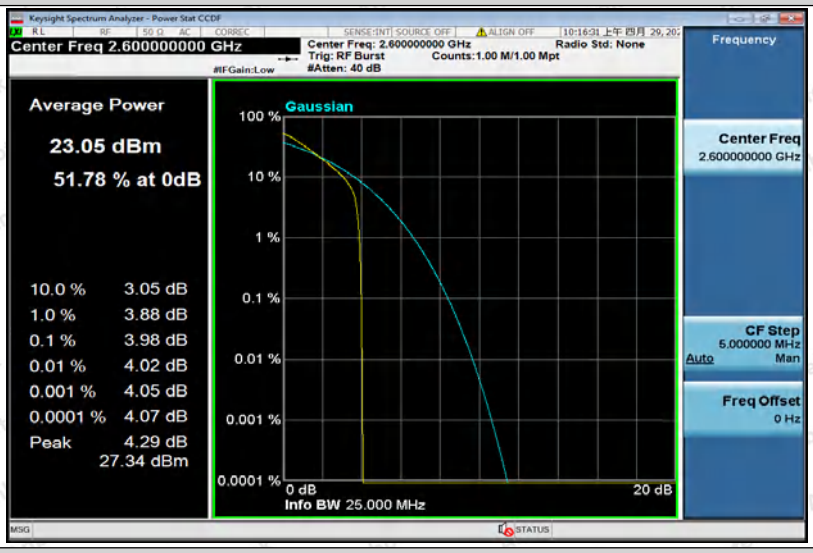

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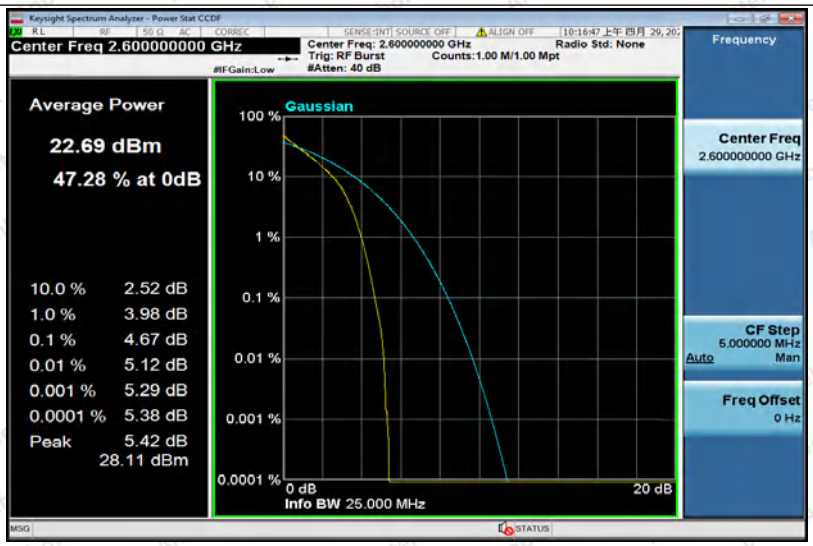

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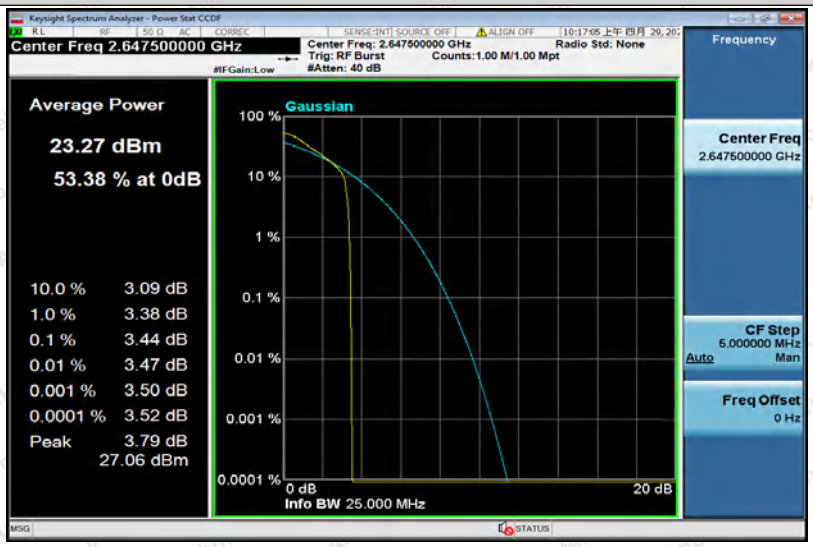

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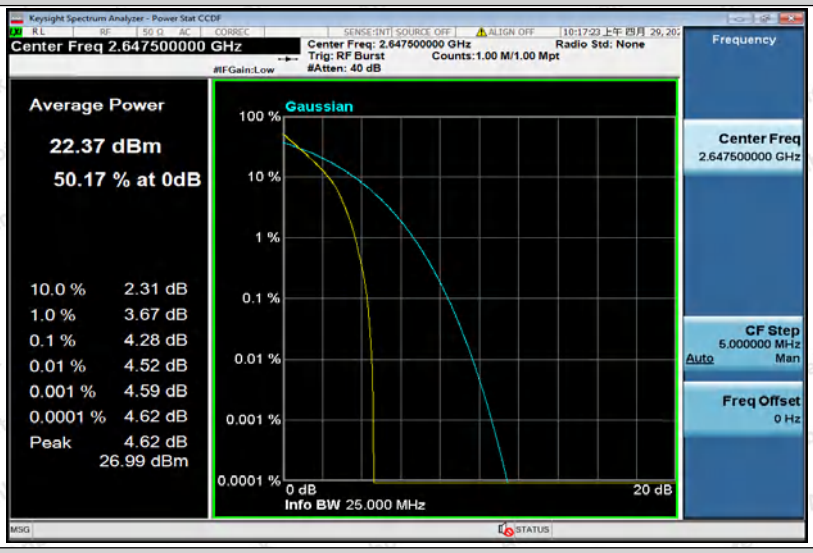

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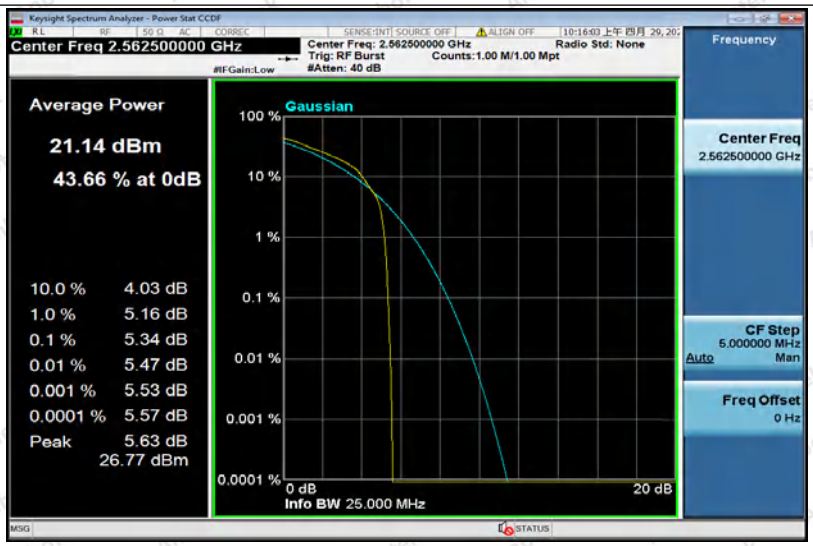

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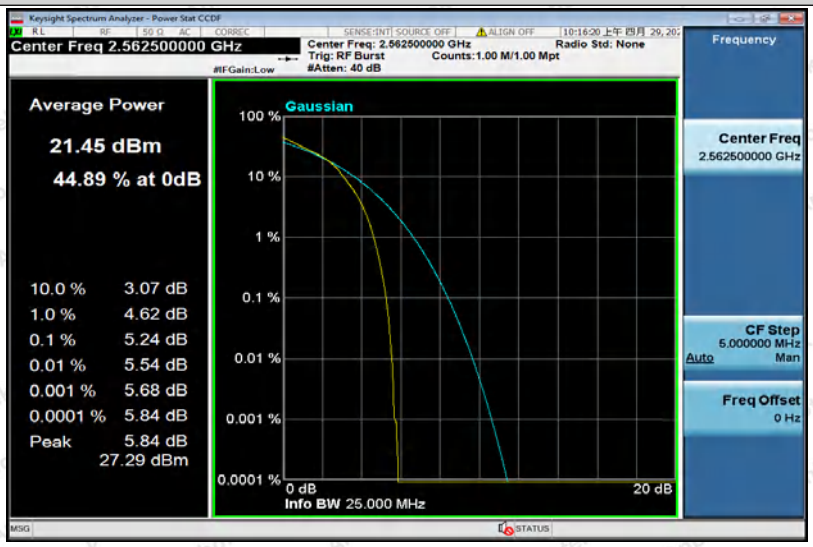

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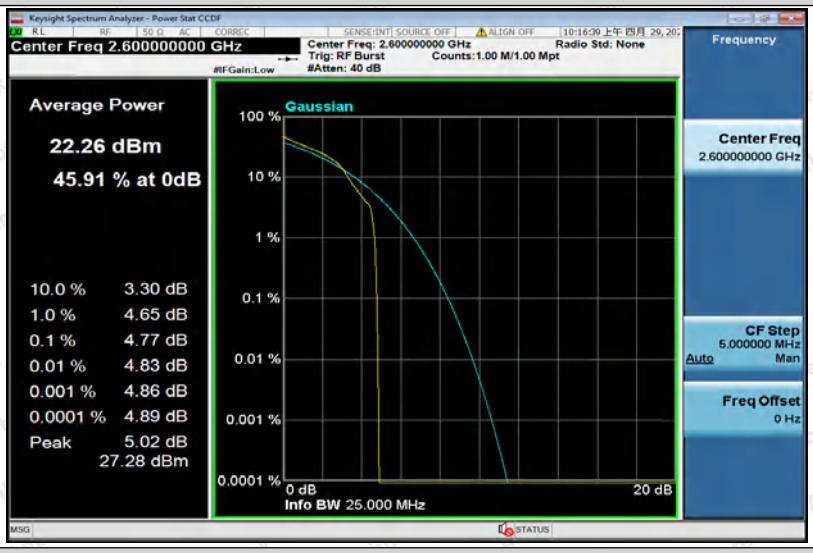

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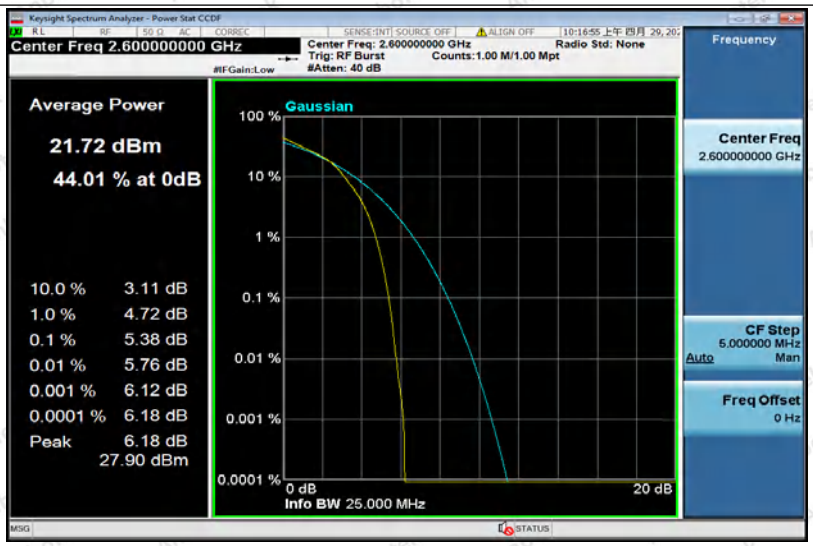

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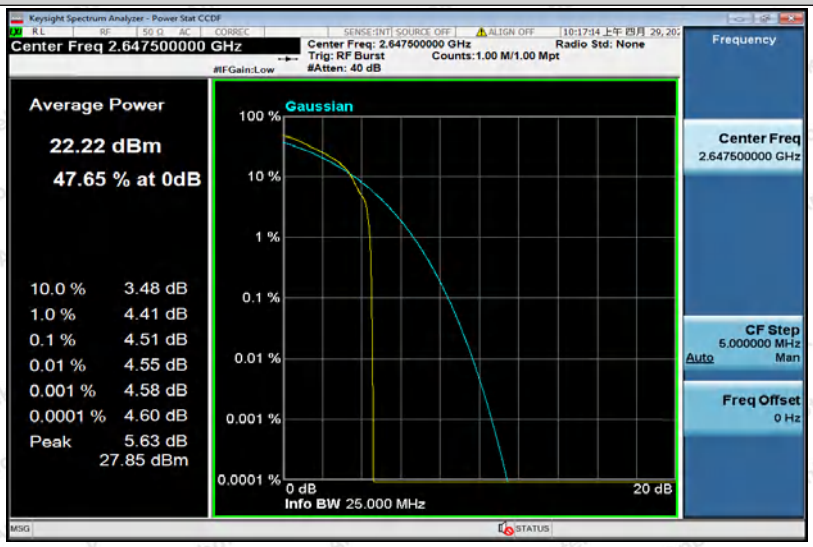

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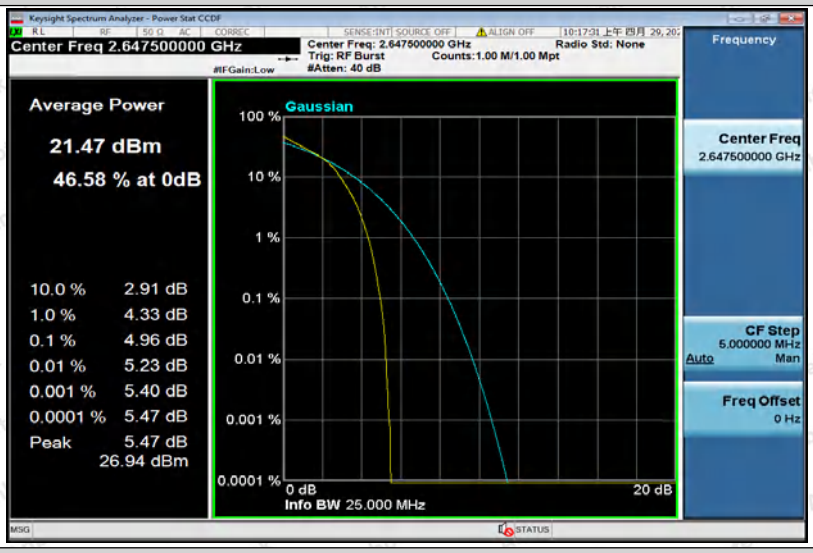

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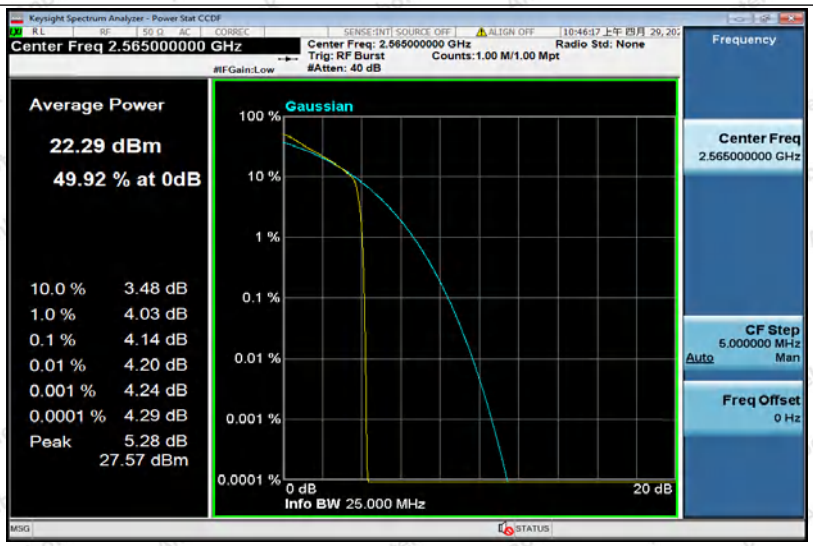

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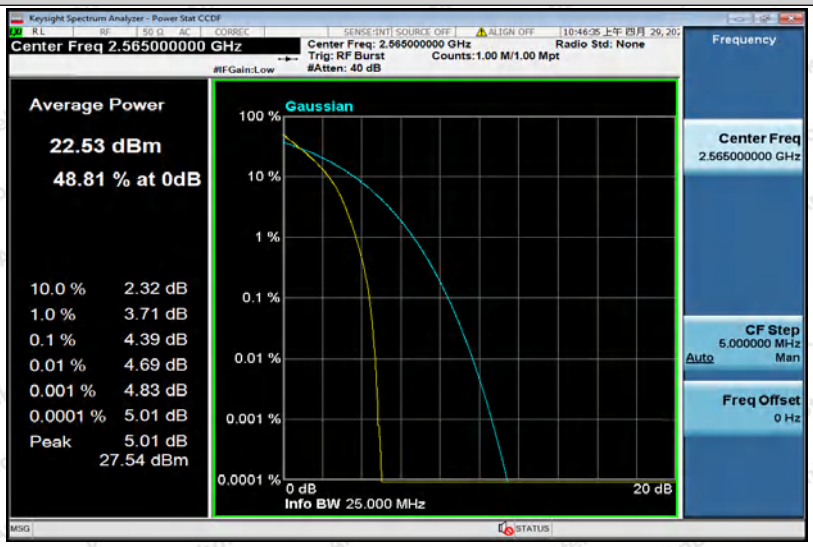

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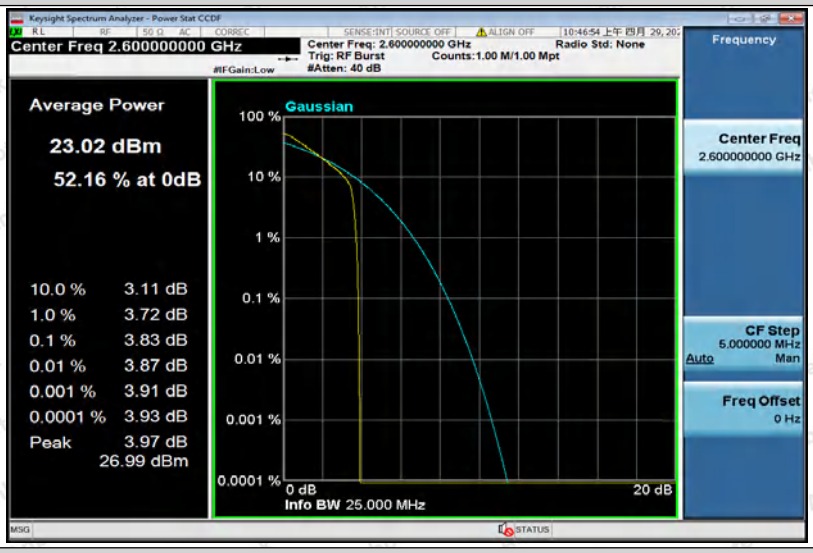

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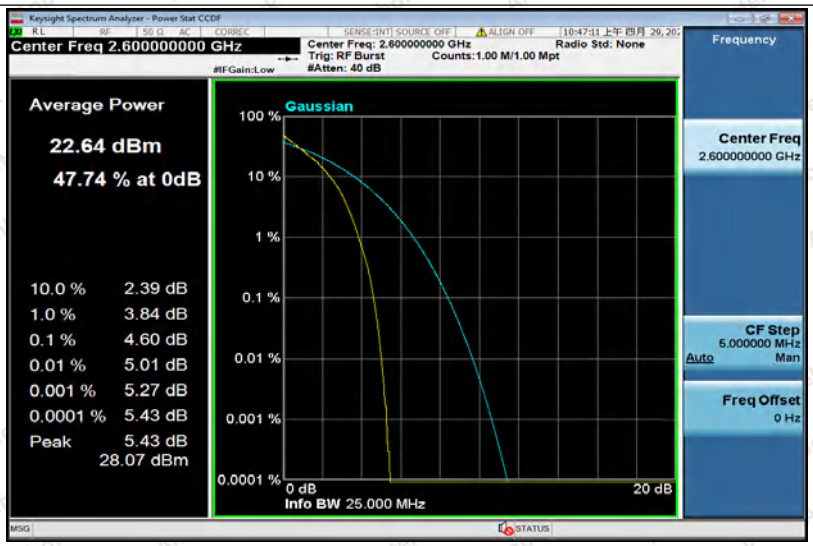

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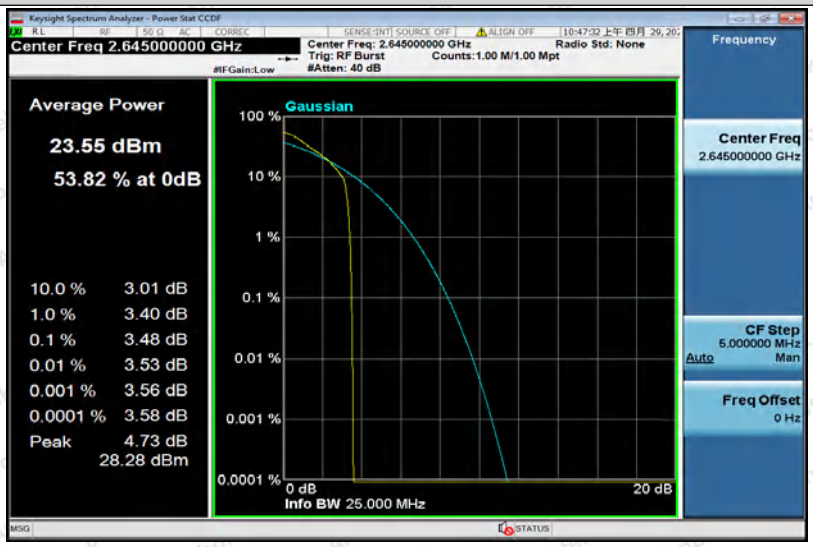

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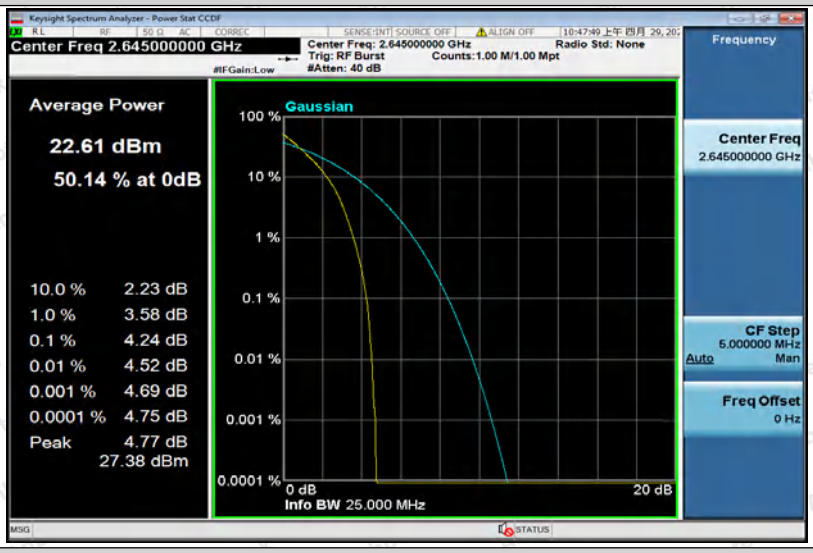

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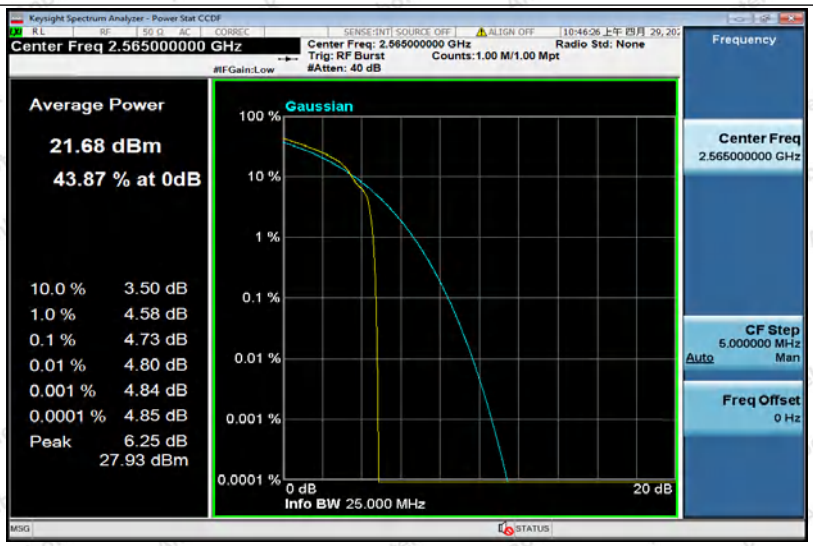

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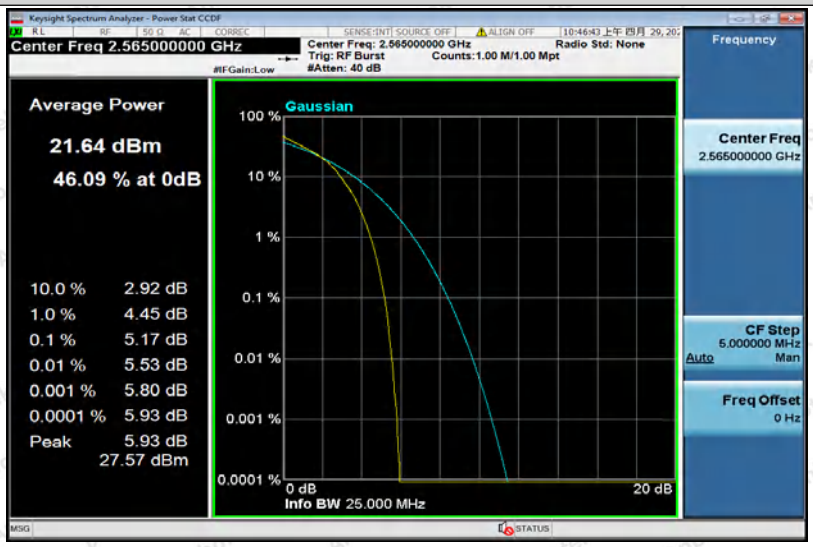

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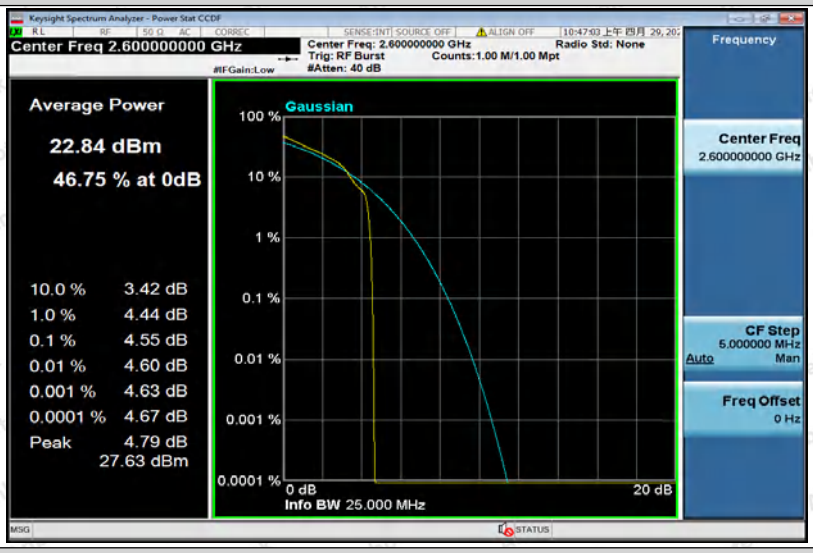

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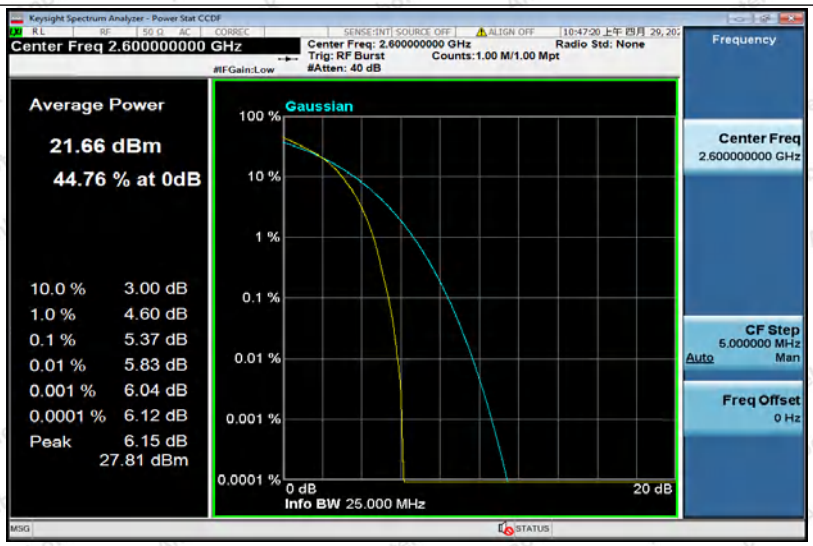

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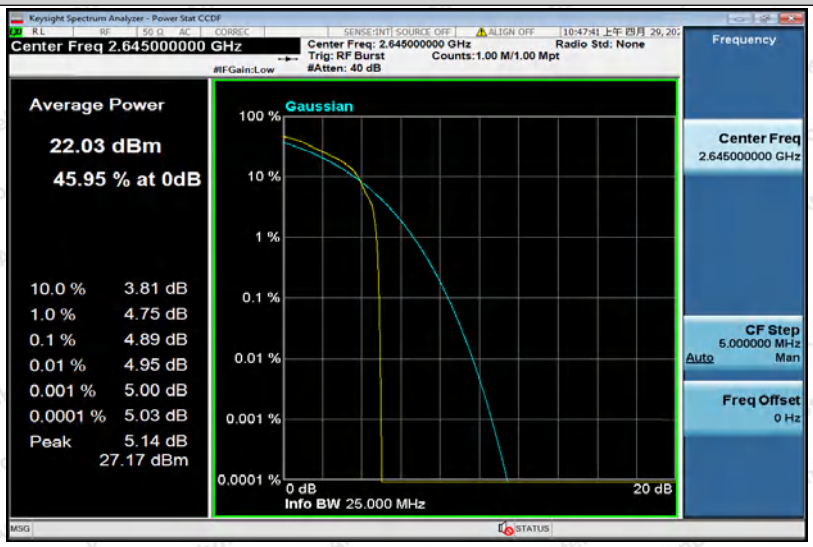

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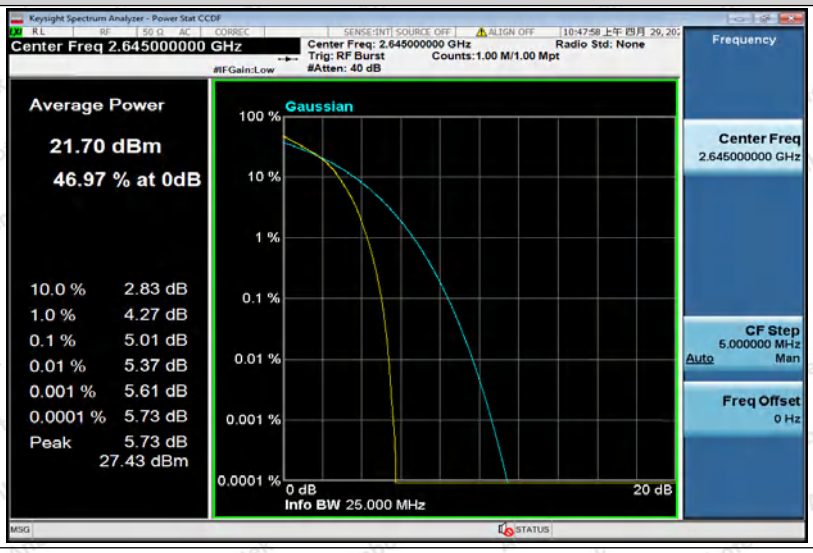


5. Modulation Characteristic

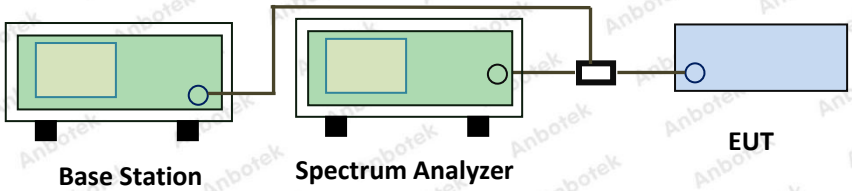
According to FCC § 2.1047(d), Part 22H, Part 24E& Part 27 there is no specific requirement for digital modulation, thereforemodulation characteristic is not presented.

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. RBWwas 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 isthe 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
GPRS850	128	246.5	312	PASS
GPRS850	190	242.4	306	PASS
GPRS850	251	245.0	315	PASS
EGPRS850	128	246.0	305	PASS
EGPRS850	190	247.2	313	PASS
EGPRS850	251	246.2	303	PASS
GPRS1900	512	244.4	312	PASS
GPRS1900	661	245.5	317	PASS
GPRS1900	810	245.9	311	PASS
EGPRS1900	512	245.2	303	PASS

EGPRS1900	661	245.1	314	PASS
EGPRS1900	810	245.2	307	PASS

WCDMA Mode：

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Verdict
Band II	9262	4147.1	4716	PASS
Band II	9400	4144.9	4724	PASS
Band II	9538	4131.4	4730	PASS
Band V	4132	4153.5	4735	PASS
Band V	4182	4156.1	4693	PASS
Band V	4233	4145.7	5074	PASS

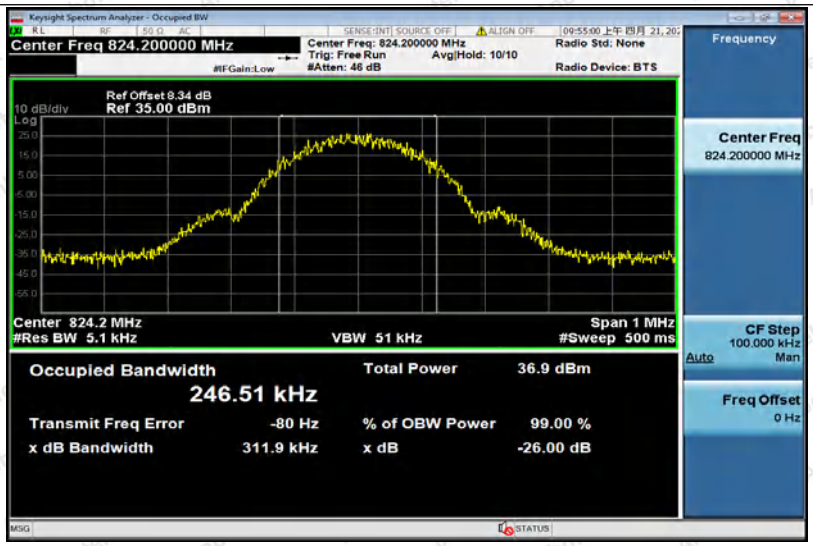
LTE Mode：

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0886	1.253	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0892	1.252	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0888	1.260	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0915	1.273	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0906	1.264	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0922	1.269	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6920	2.911	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6940	2.886	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6952	2.916	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6861	2.902	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6936	2.882	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6918	2.926	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4937	4.893	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5037	4.904	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4951	4.899	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5011	4.855	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5064	4.871	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.4967	4.904	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9295	9.509	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9782	9.584	PASS

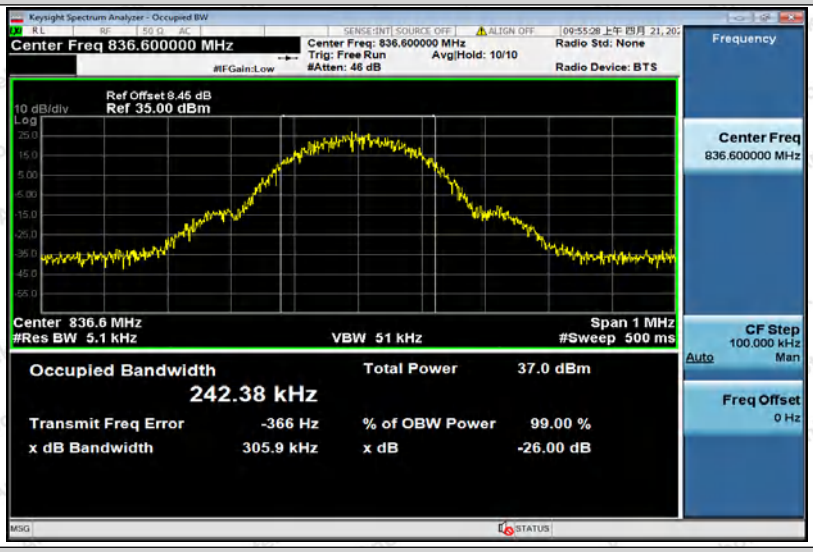
Band5	10MHz	QPSK	20600	50RB#0	8.9494	9.520	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9343	9.502	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9846	9.560	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9609	9.513	PASS
Band7	5MHz	QPSK	20775	25RB#0	4.5009	4.988	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5014	4.894	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4997	4.921	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5091	4.933	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5013	4.918	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5053	4.890	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9807	9.789	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9647	9.548	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9662	9.560	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9648	9.597	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9600	9.515	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9558	9.569	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.463	14.59	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.432	14.31	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.460	14.37	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.460	14.28	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.425	14.27	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.449	14.30	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.930	19.13	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.867	18.96	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.953	19.05	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.931	19.03	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.890	18.98	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.926	19.03	PASS
Band41	5MHz	QPSK	40265	25RB#0	4.4971	4.839	PASS
Band41	5MHz	QPSK	40690	25RB#0	4.4971	4.858	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.4984	4.942	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.4988	4.863	PASS
Band41	5MHz	16QAM	40690	25RB#0	4.4939	4.852	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.4885	4.905	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.9589	9.574	PASS
Band41	10MHz	QPSK	40690	50RB#0	8.9698	9.539	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9605	9.632	PASS
Band41	10MHz	16QAM	40290	50RB#0	8.9573	9.558	PASS
Band41	10MHz	16QAM	40690	50RB#0	8.9559	9.548	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9508	9.527	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.435	14.27	PASS
Band41	15MHz	QPSK	40690	75RB#0	13.426	14.26	PASS

Band41	15MHz	QPSK	41165	75RB#0	13.449	14.60	PASS
Band41	15MHz	16QAM	40315	75RB#0	13.423	14.28	PASS
Band41	15MHz	16QAM	40690	75RB#0	13.438	14.23	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.441	14.33	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.888	19.03	PASS
Band41	20MHz	QPSK	40690	100RB#0	17.901	18.96	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.896	19.10	PASS
Band41	20MHz	16QAM	40340	100RB#0	17.890	18.99	PASS
Band41	20MHz	16QAM	40690	100RB#0	17.879	18.97	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.879	19.04	PASS

Test Graphs



GPRS850-128



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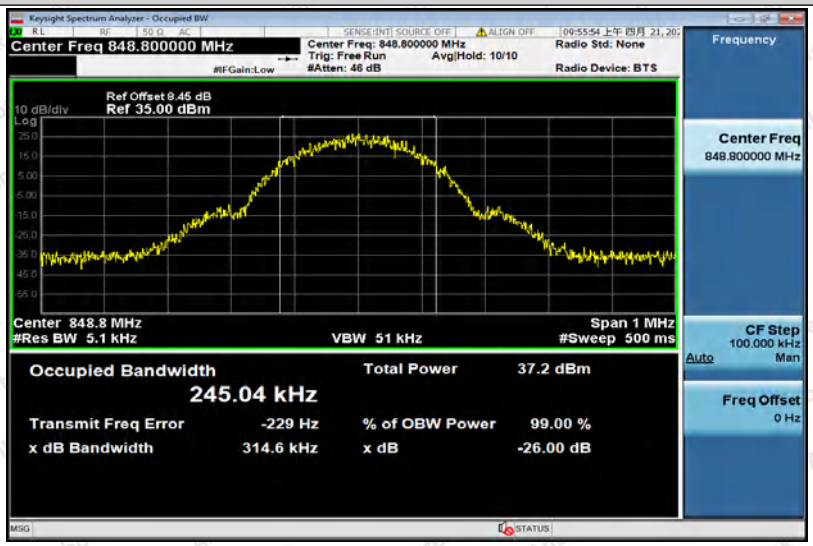

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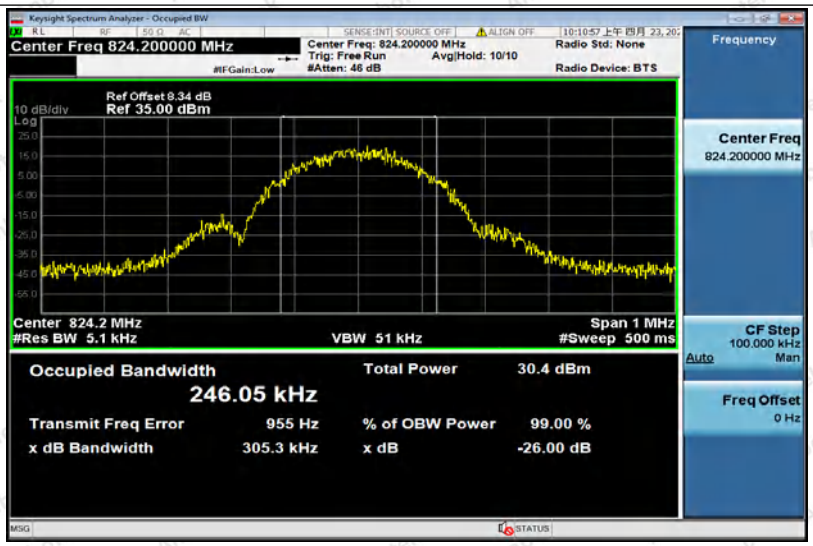

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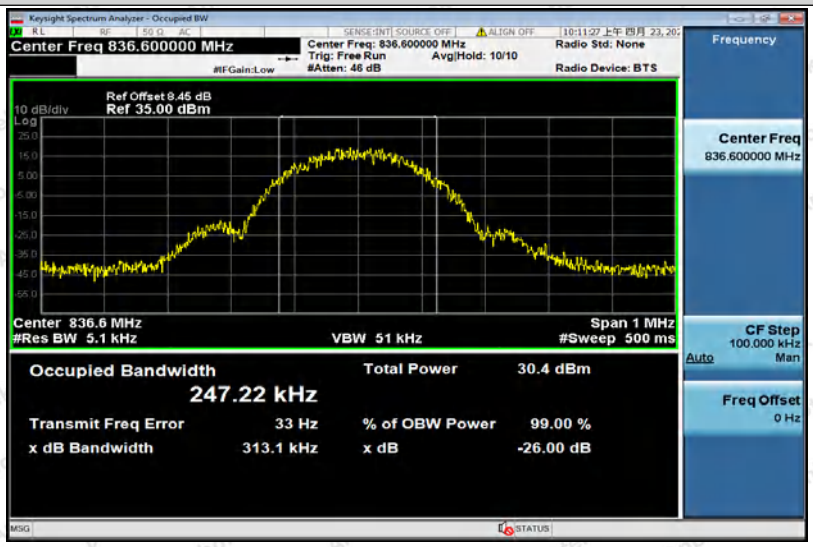

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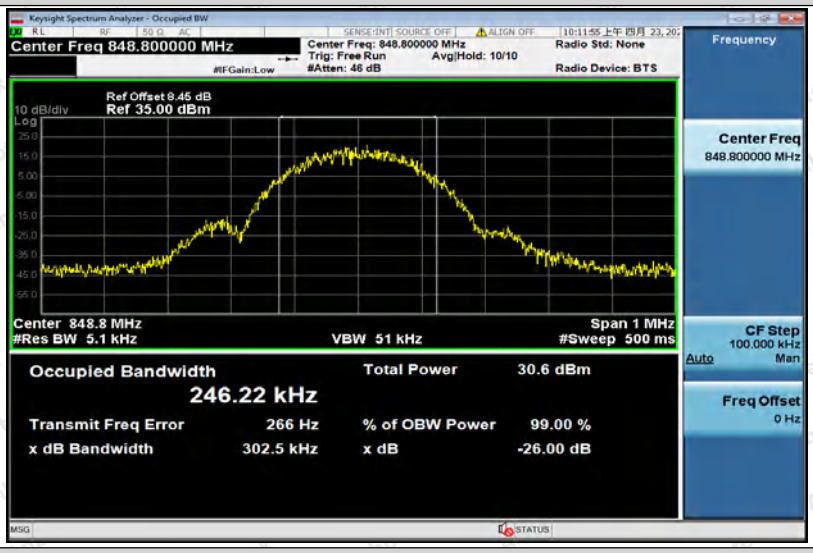

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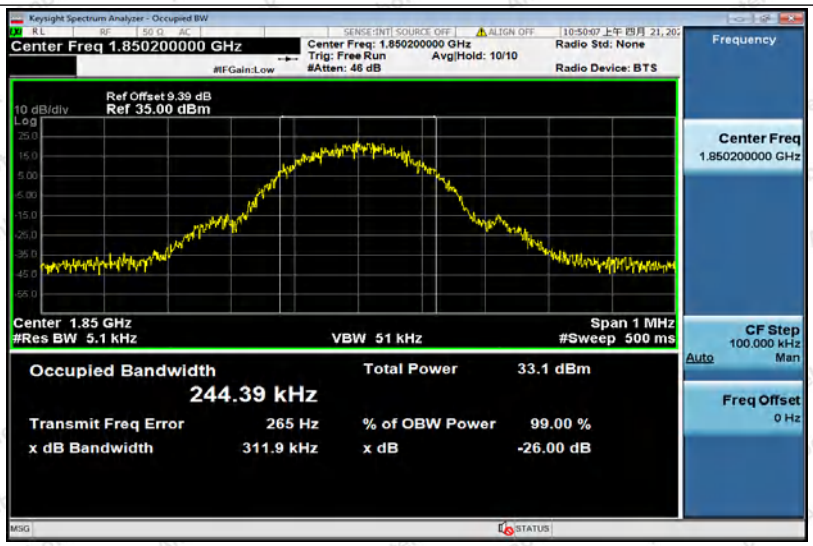
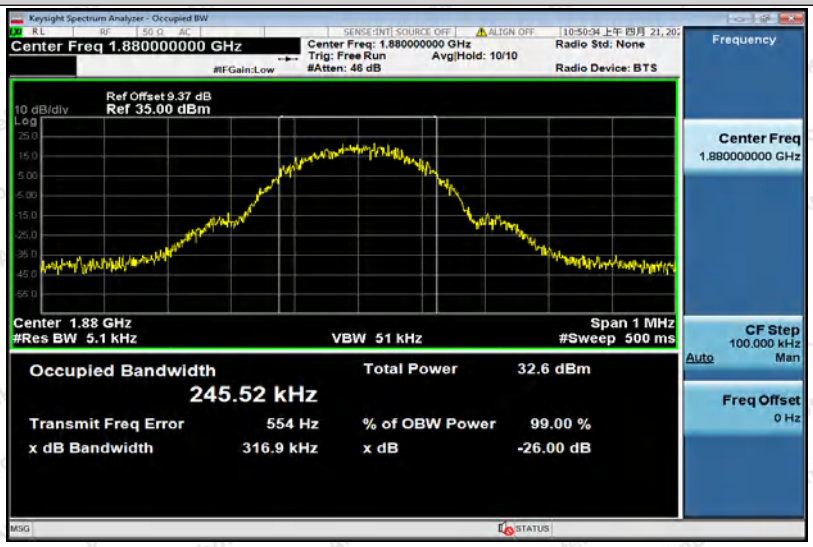
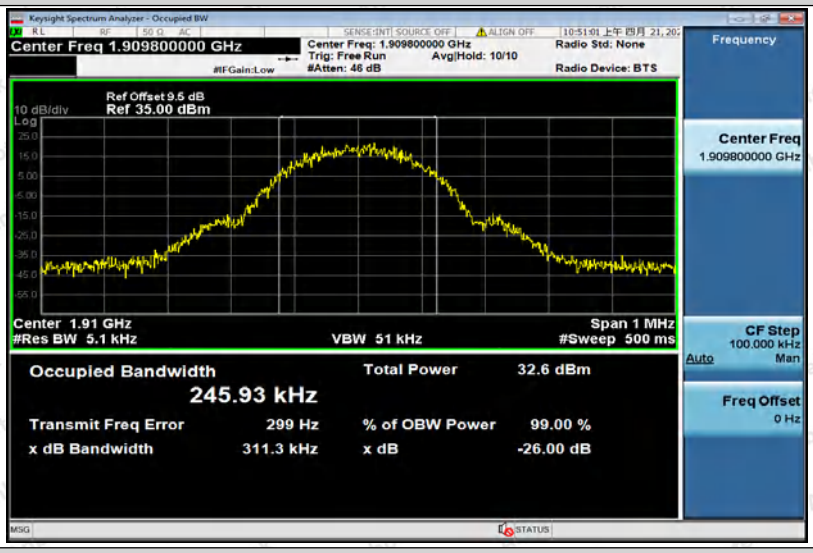


GPRS1900-512



GPRS1900-661



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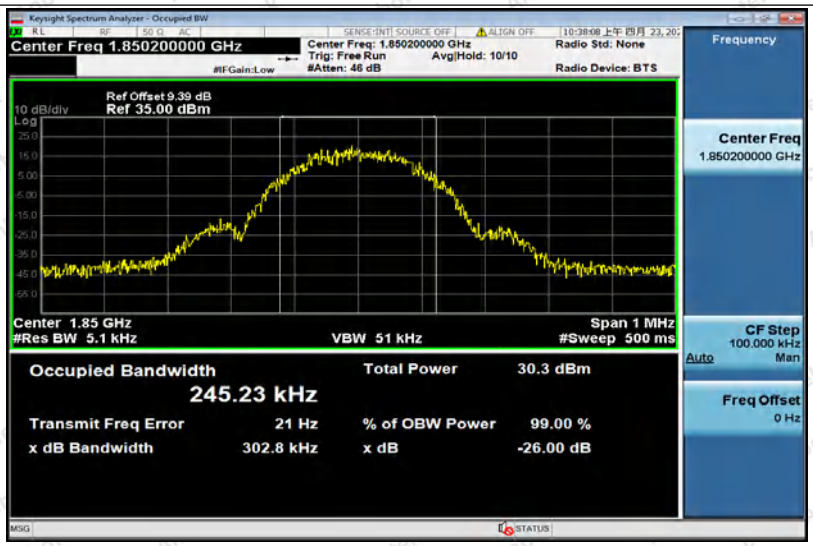

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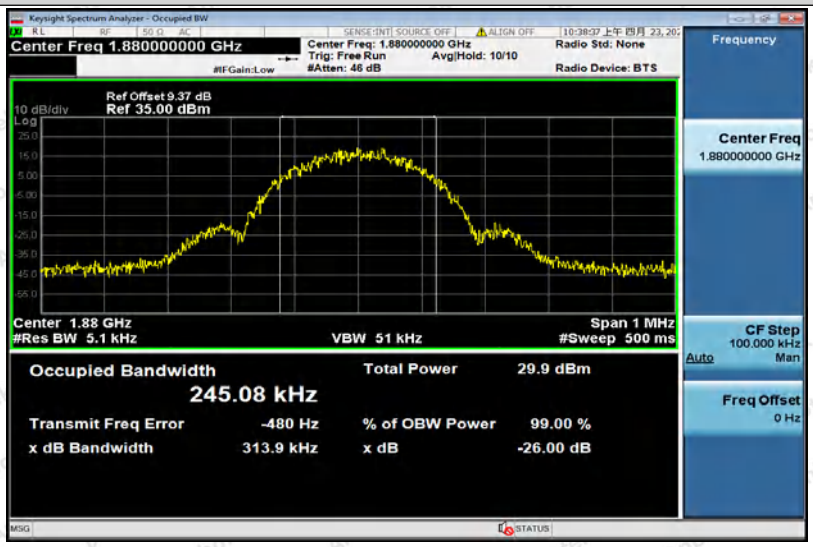

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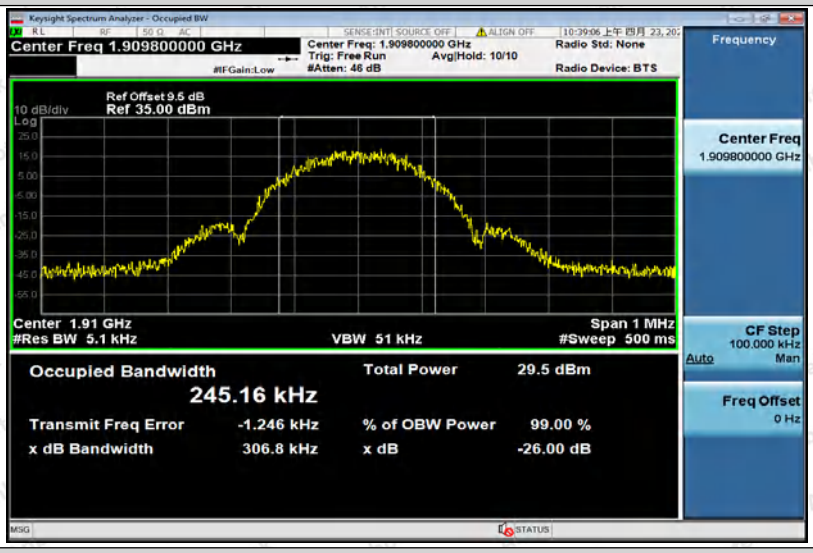

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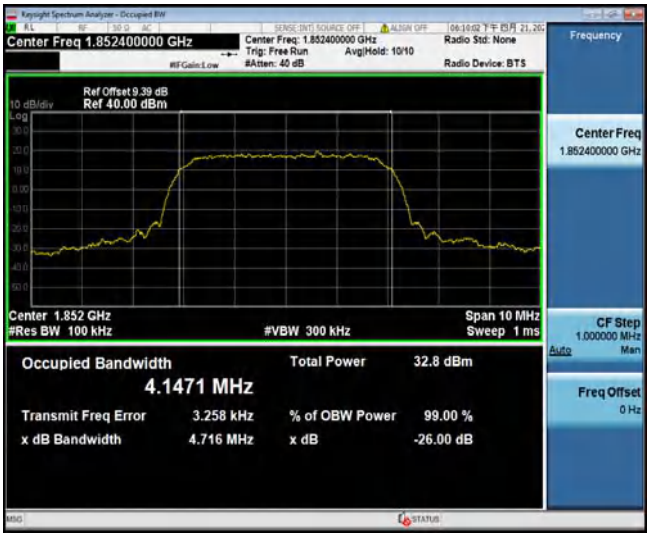
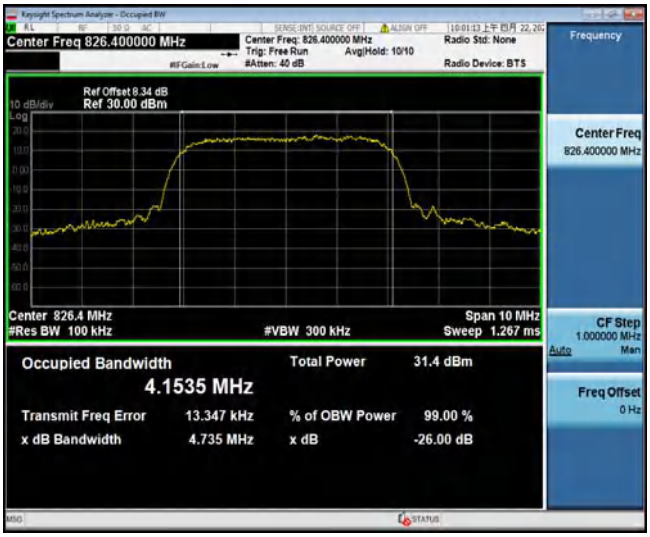


Band II_9262

Band II_9400

Band II_9538

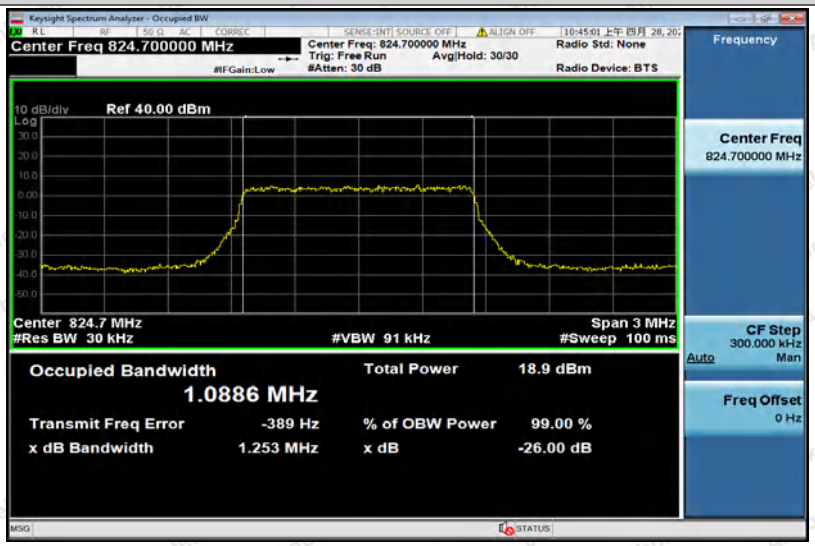


Band V_4132

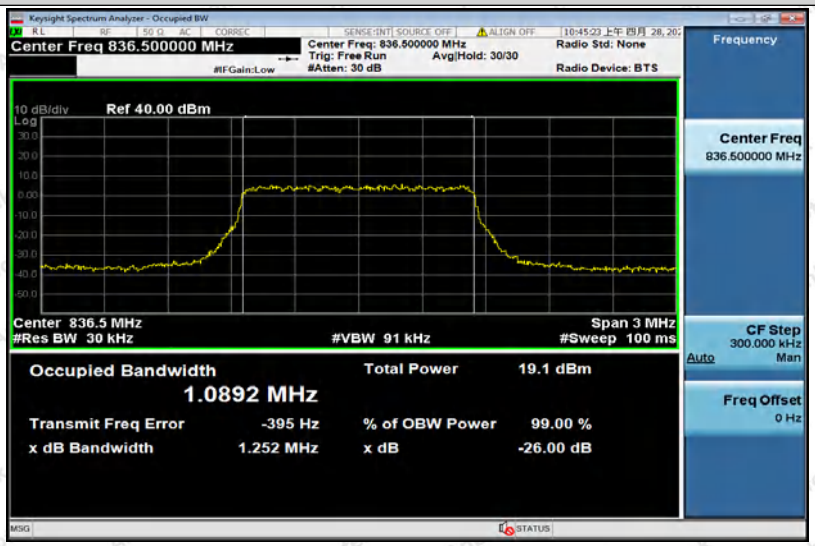
Band V_4182

Band V_4233

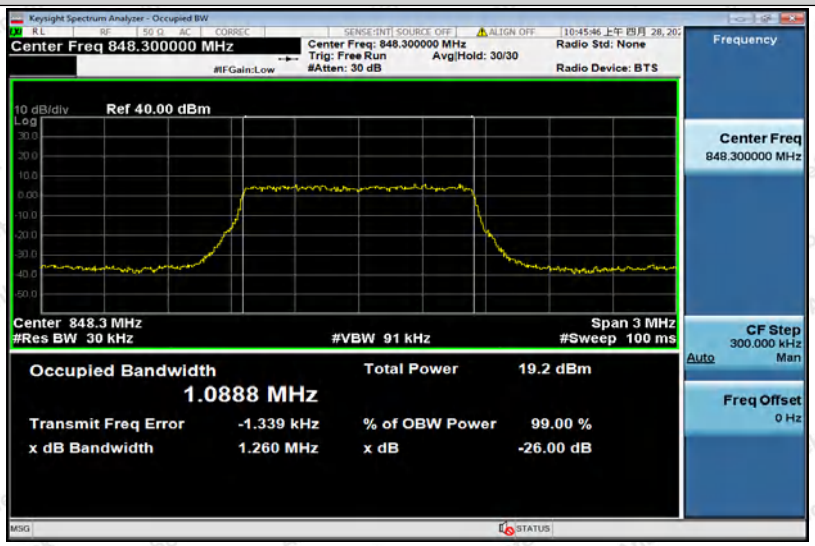
Band5-1.4MHz-QPSK-20407-6RB#0-1.0886



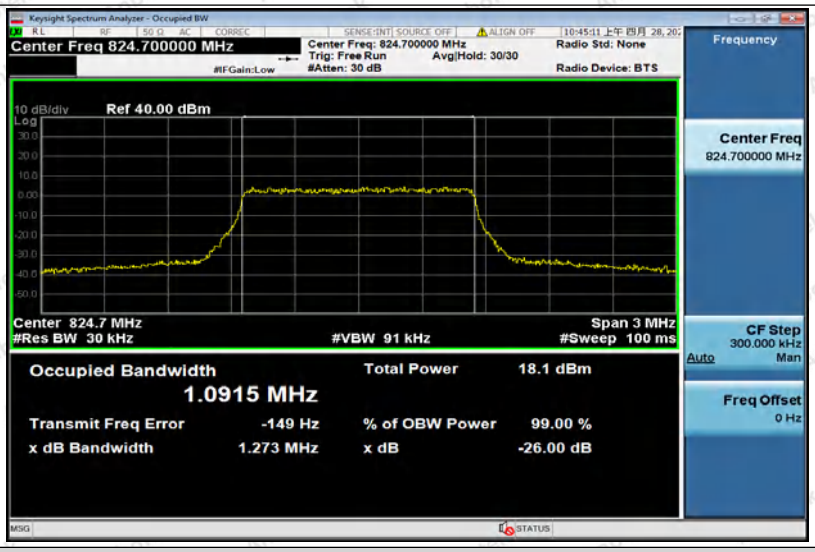
Band5-1.4MHz-QPSK-20525-6RB#0-1.0892



Band5-1.4MHz-QPSK-20643-6RB#0-1.0888



Band5-1.4MHz-16QAM-20407-6RB#0-1.0915



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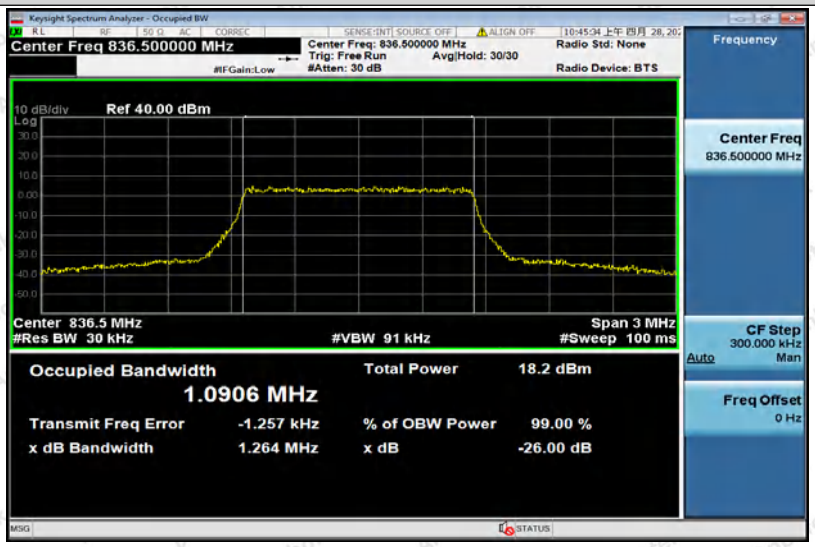

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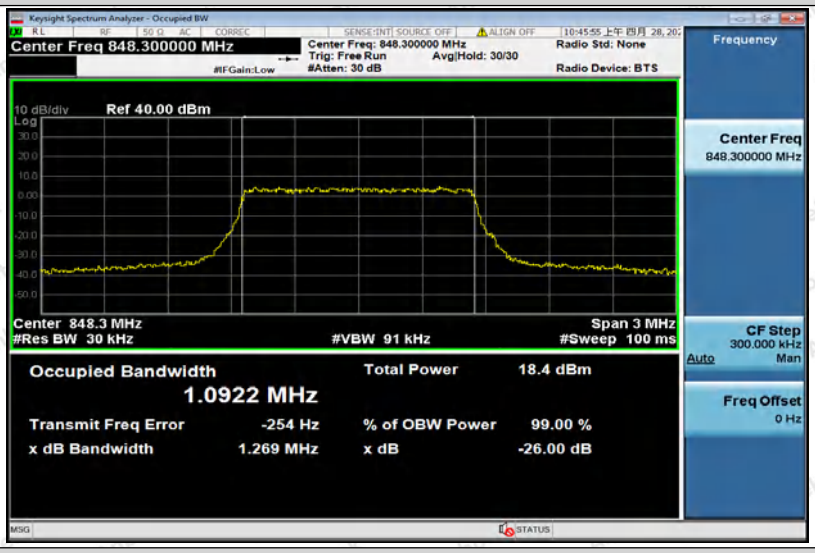
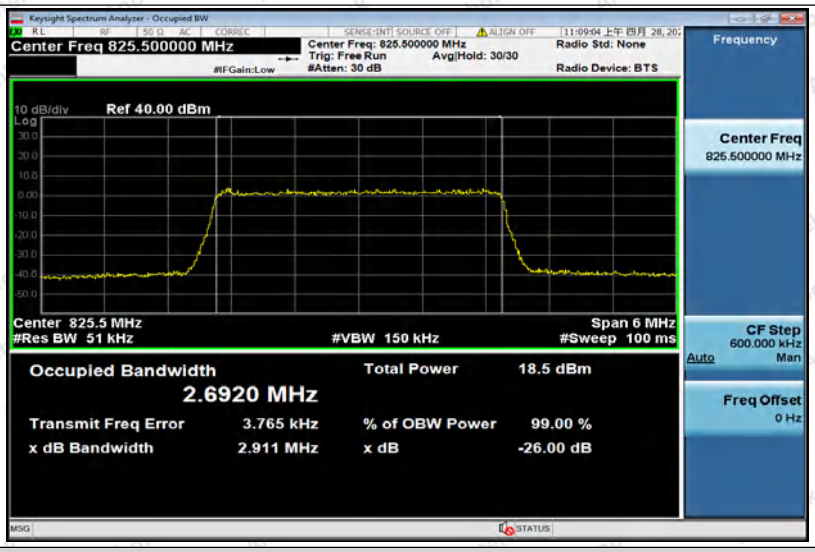
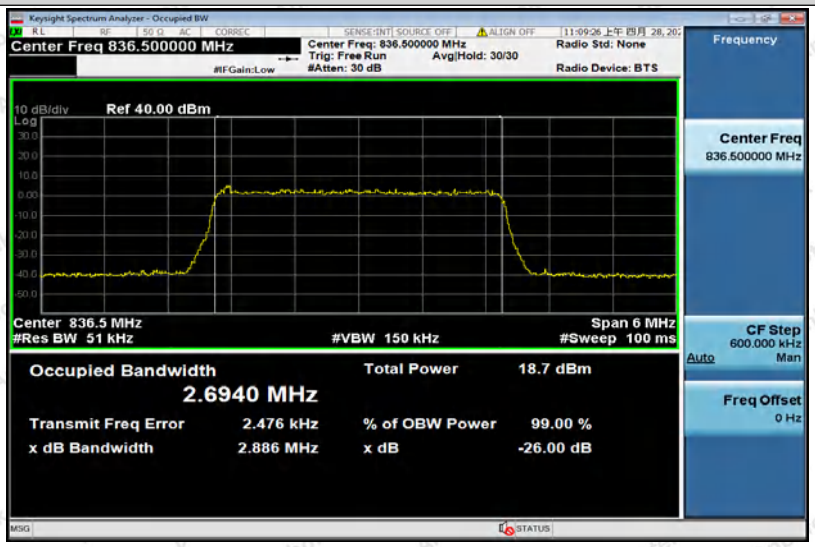


Band5-3MHz-QPSK-20415-15RB#0-2.6920



Band5-3MHz-QPSK-20525-15RB#0-2.6940



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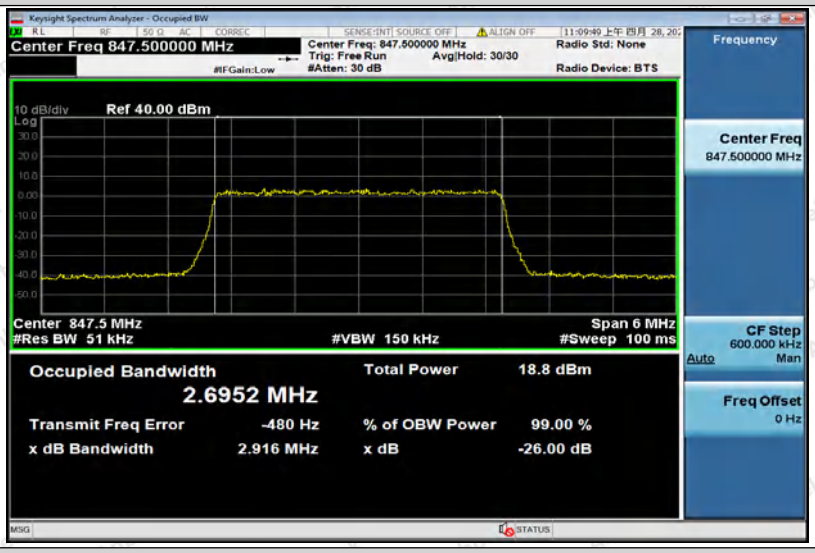

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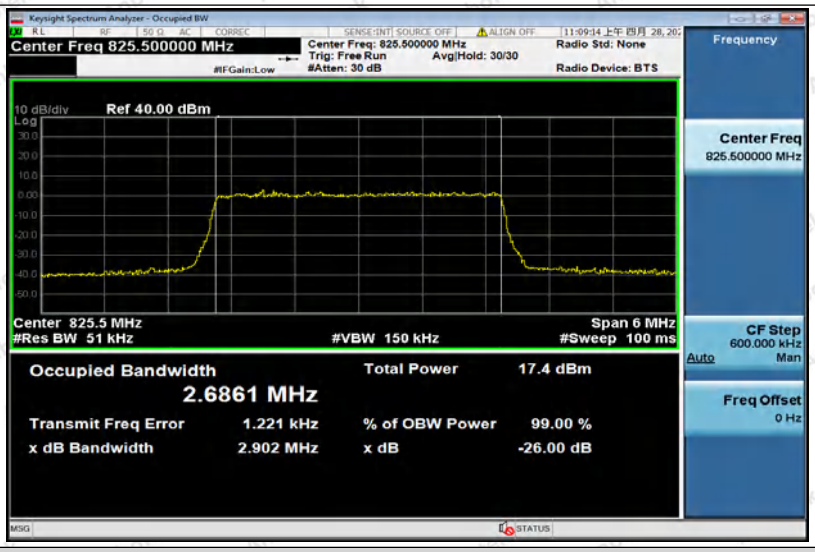

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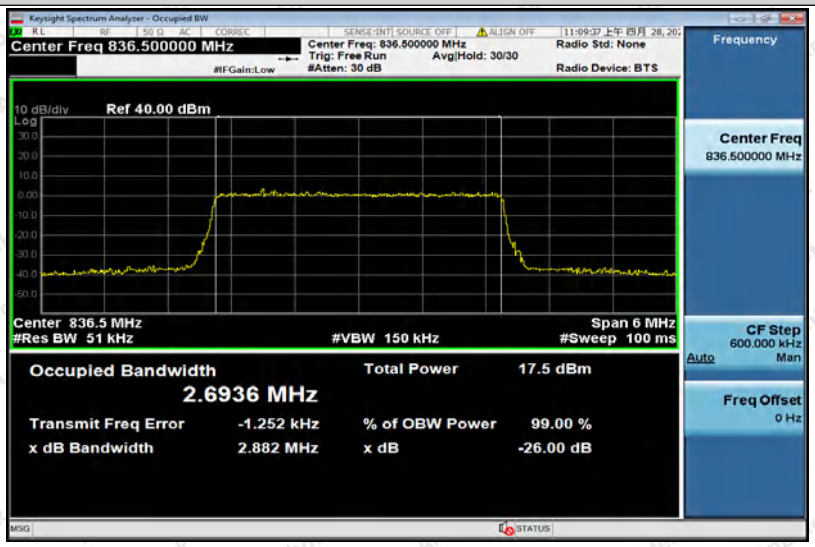

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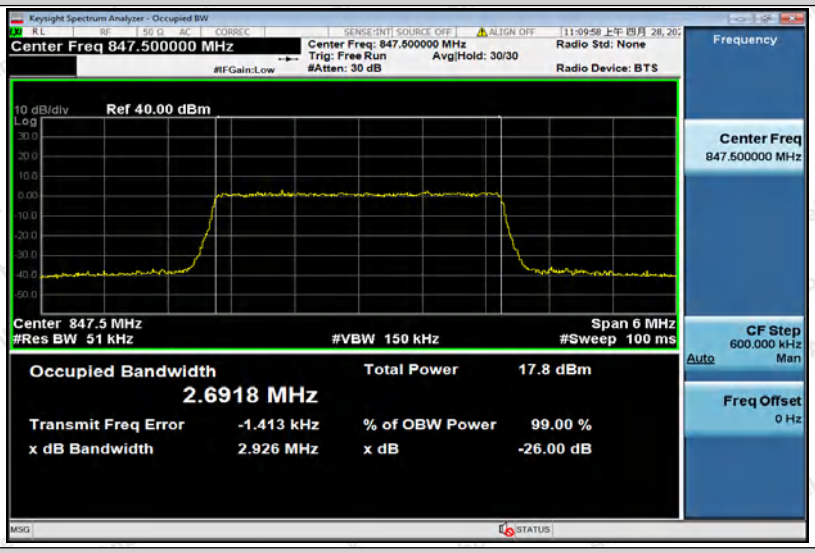
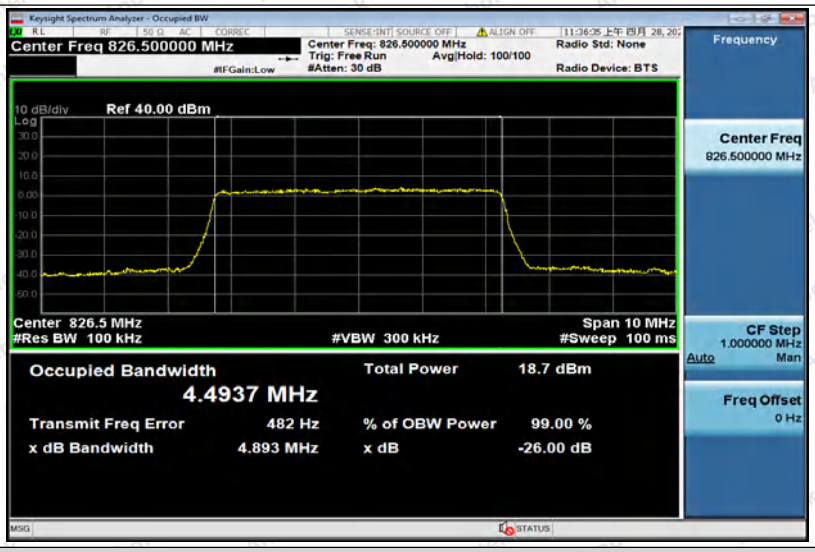
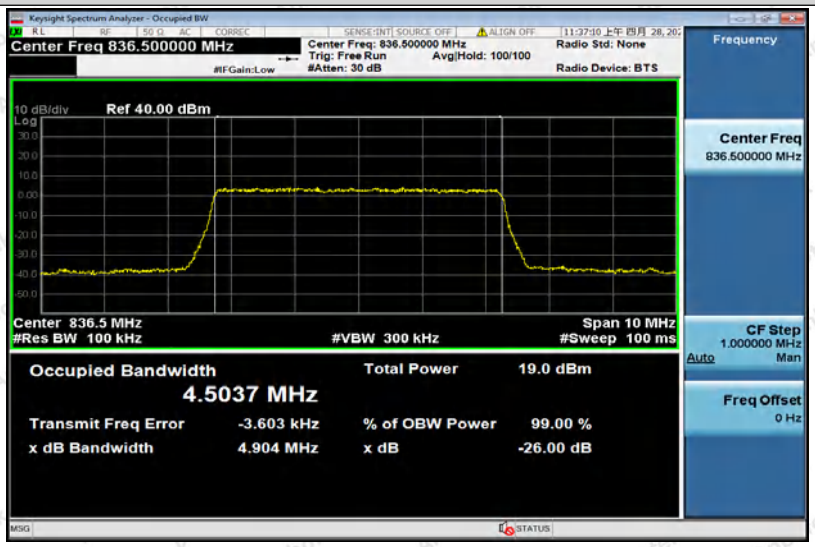


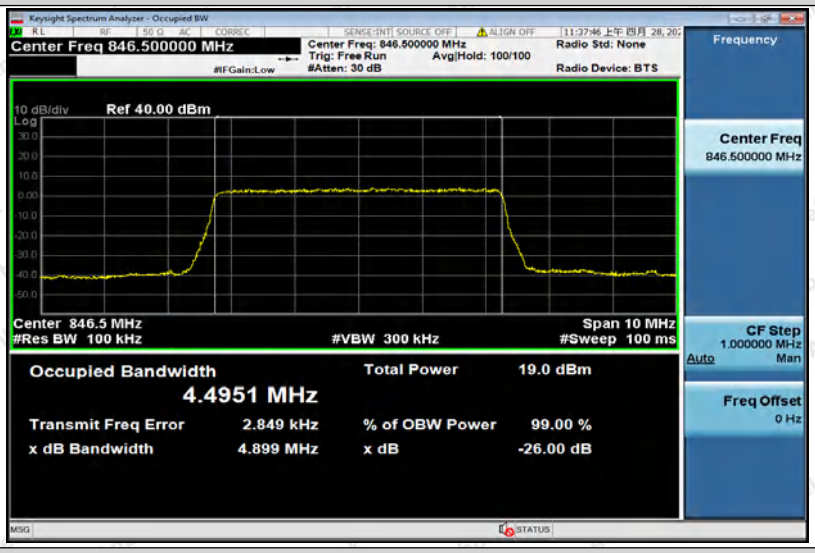
Band5-5MHz-QPSK-20425-25RB#0-4.4937



Band5-5MHz-QPSK-20525-25RB#0-4.5037



Band5-5MHz-QPSK-20625-25RB#0-4.4951



Band5-5MHz-16QAM-20425-25RB#0-4.5011