



Appendix A: Test Data for E-UTRA Band 2

Product Name: 4G Module

Test Model: Air795U

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	21.05	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.44	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.24	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.47	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.25	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.39	PASS
Band2	3MHz	QPSK	18615	15RB#0	20.82	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.03	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.22	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.46	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.17	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.50	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.95	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.11	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.03	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.23	PASS
Band2	5MHz	QPSK	18625	25RB#0	20.88	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.15	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.25	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.46	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.29	PASS
Band2	10MHz	QPSK	18650	50RB#0	20.78	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.08	PASS
Band2	15MHz	QPSK	18675	75RB#0	20.84	PASS
Band2	15MHz	16QAM	18675	75RB#0	19.98	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.22	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.43	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.78	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.03	PASS
Band2	20MHz	QPSK	18700	100RB#0	20.94	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.11	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.18	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.43	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.78	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.95	PASS



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A.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	5.04	13	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	5.77	13	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	4.83	13	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	5.57	13	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	4.48	13	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	5.17	13	PASS
Band2	3MHz	QPSK	18615	15RB#0	5.35	13	PASS
Band2	3MHz	16QAM	18615	15RB#0	6.10	13	PASS
Band2	3MHz	QPSK	18900	15RB#0	5.16	13	PASS
Band2	3MHz	16QAM	18900	15RB#0	5.88	13	PASS
Band2	3MHz	QPSK	19185	15RB#0	4.72	13	PASS
Band2	3MHz	16QAM	19185	15RB#0	5.44	13	PASS
Band2	5MHz	QPSK	18625	25RB#0	5.33	13	PASS
Band2	5MHz	16QAM	18625	25RB#0	5.97	13	PASS
Band2	5MHz	QPSK	18900	25RB#0	5.18	13	PASS
Band2	5MHz	16QAM	18900	25RB#0	5.80	13	PASS
Band2	5MHz	QPSK	19175	25RB#0	5.03	13	PASS
Band2	5MHz	16QAM	19175	25RB#0	5.66	13	PASS
Band2	10MHz	QPSK	18650	50RB#0	5.45	13	PASS
Band2	10MHz	16QAM	18650	50RB#0	6.13	13	PASS
Band2	10MHz	QPSK	18900	50RB#0	5.24	13	PASS
Band2	10MHz	16QAM	18900	50RB#0	5.91	13	PASS
Band2	10MHz	QPSK	19150	50RB#0	5.04	13	PASS
Band2	10MHz	16QAM	19150	50RB#0	5.72	13	PASS
Band2	15MHz	QPSK	18675	75RB#0	5.74	13	PASS
Band2	15MHz	16QAM	18675	75RB#0	6.21	13	PASS
Band2	15MHz	QPSK	18900	75RB#0	5.51	13	PASS
Band2	15MHz	16QAM	18900	75RB#0	5.96	13	PASS
Band2	15MHz	QPSK	19125	75RB#0	5.30	13	PASS
Band2	15MHz	16QAM	19125	75RB#0	5.81	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.48	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.15	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.26	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.96	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.11	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.82	13	PASS



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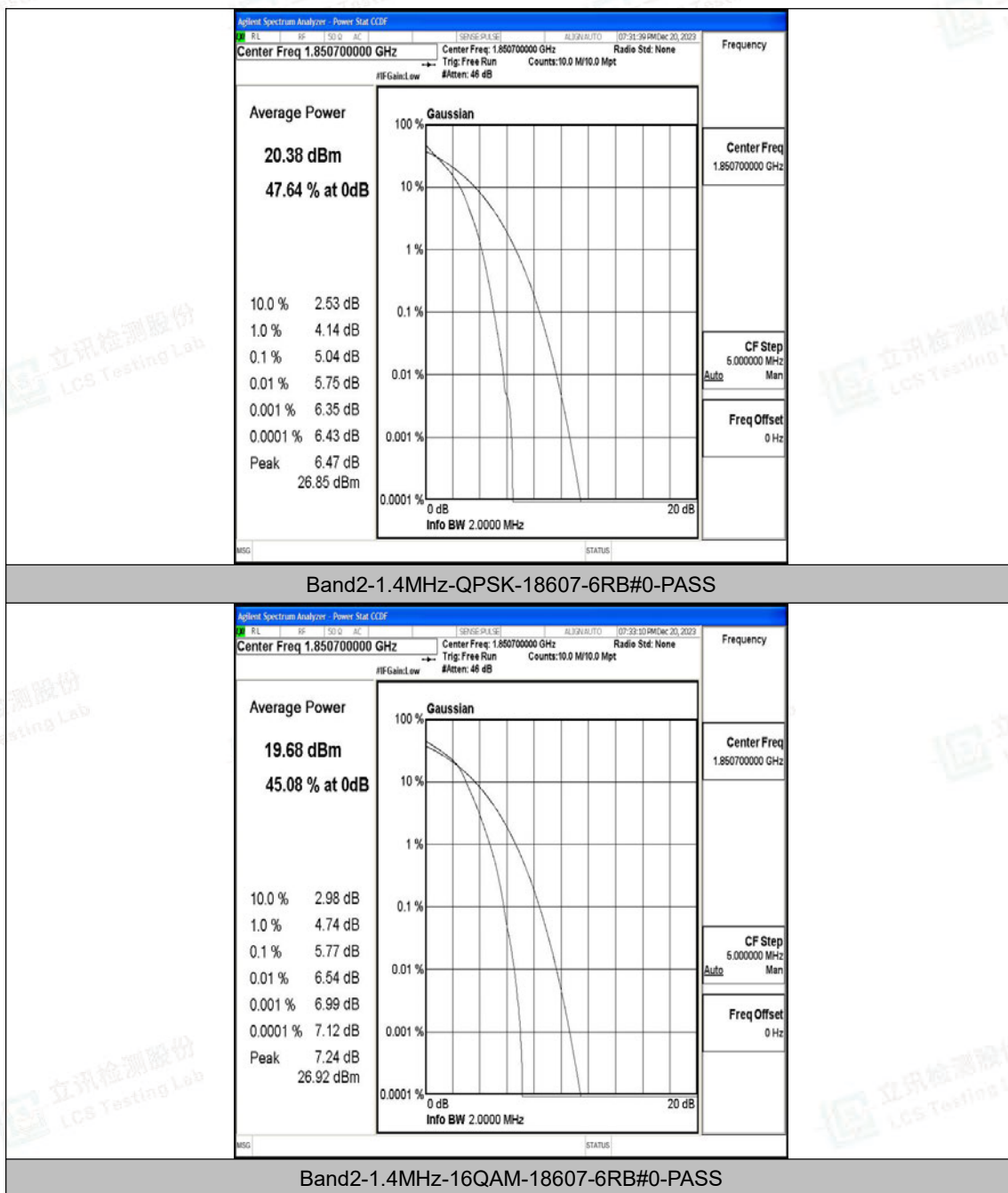
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Test Graphs

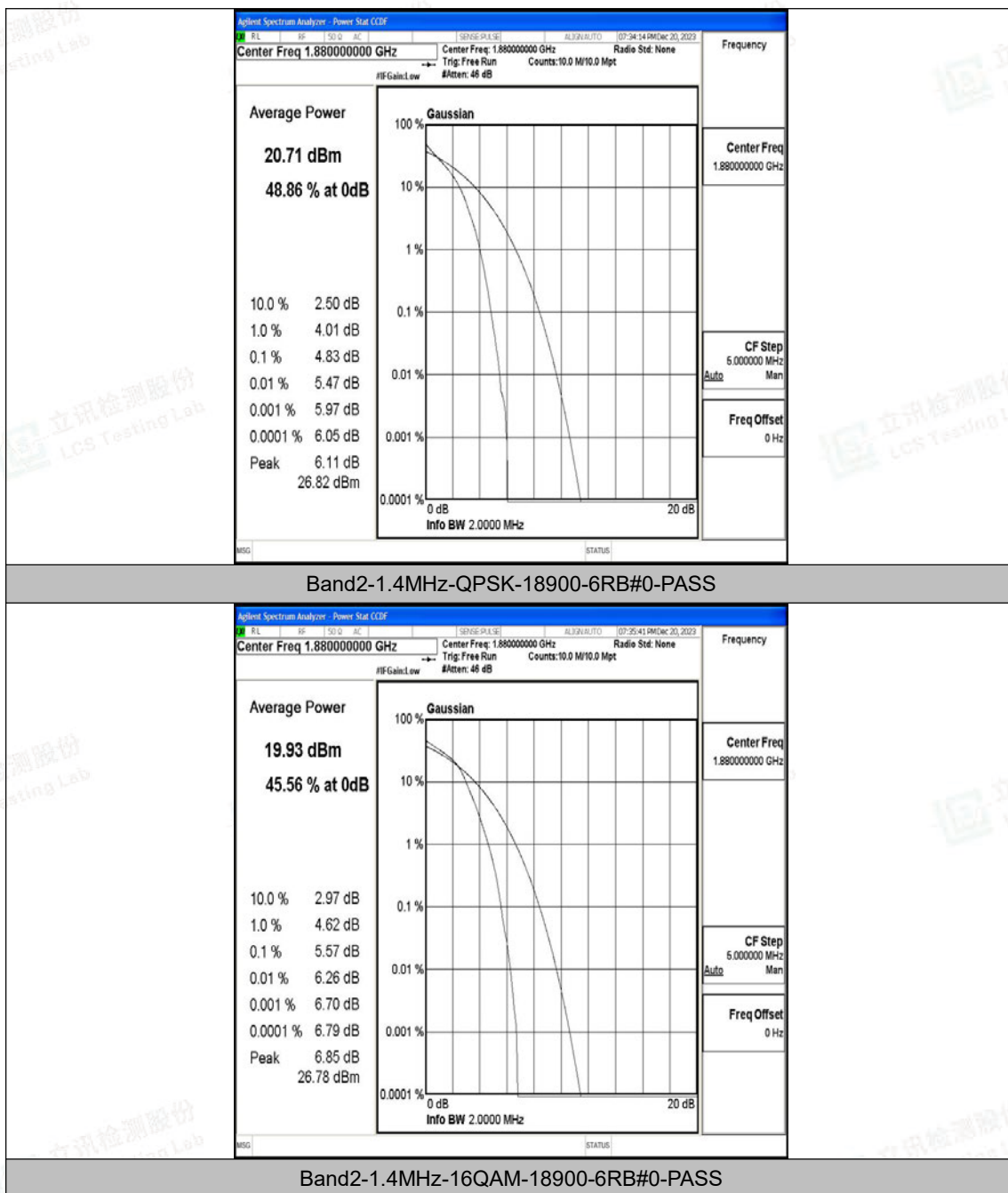


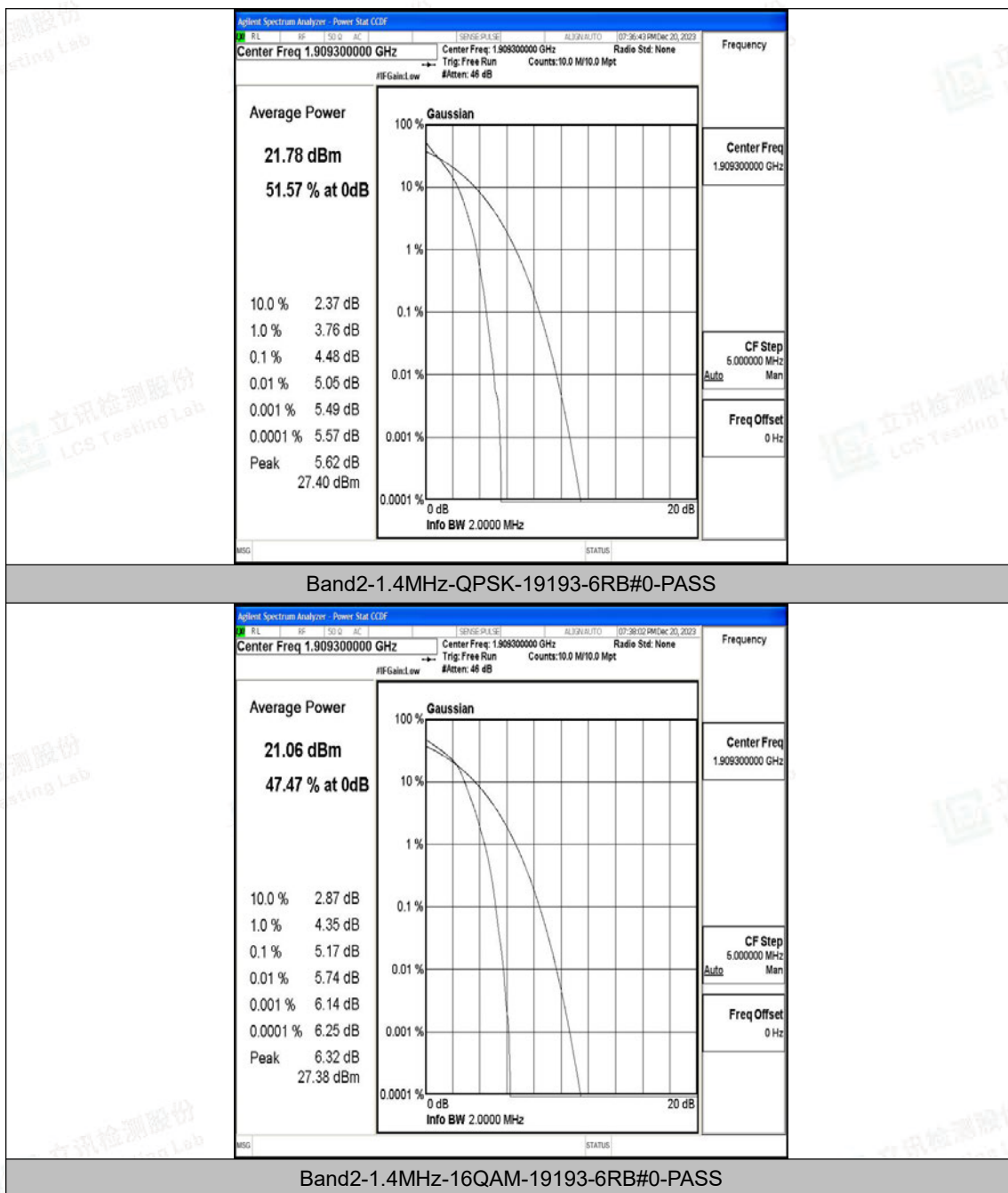
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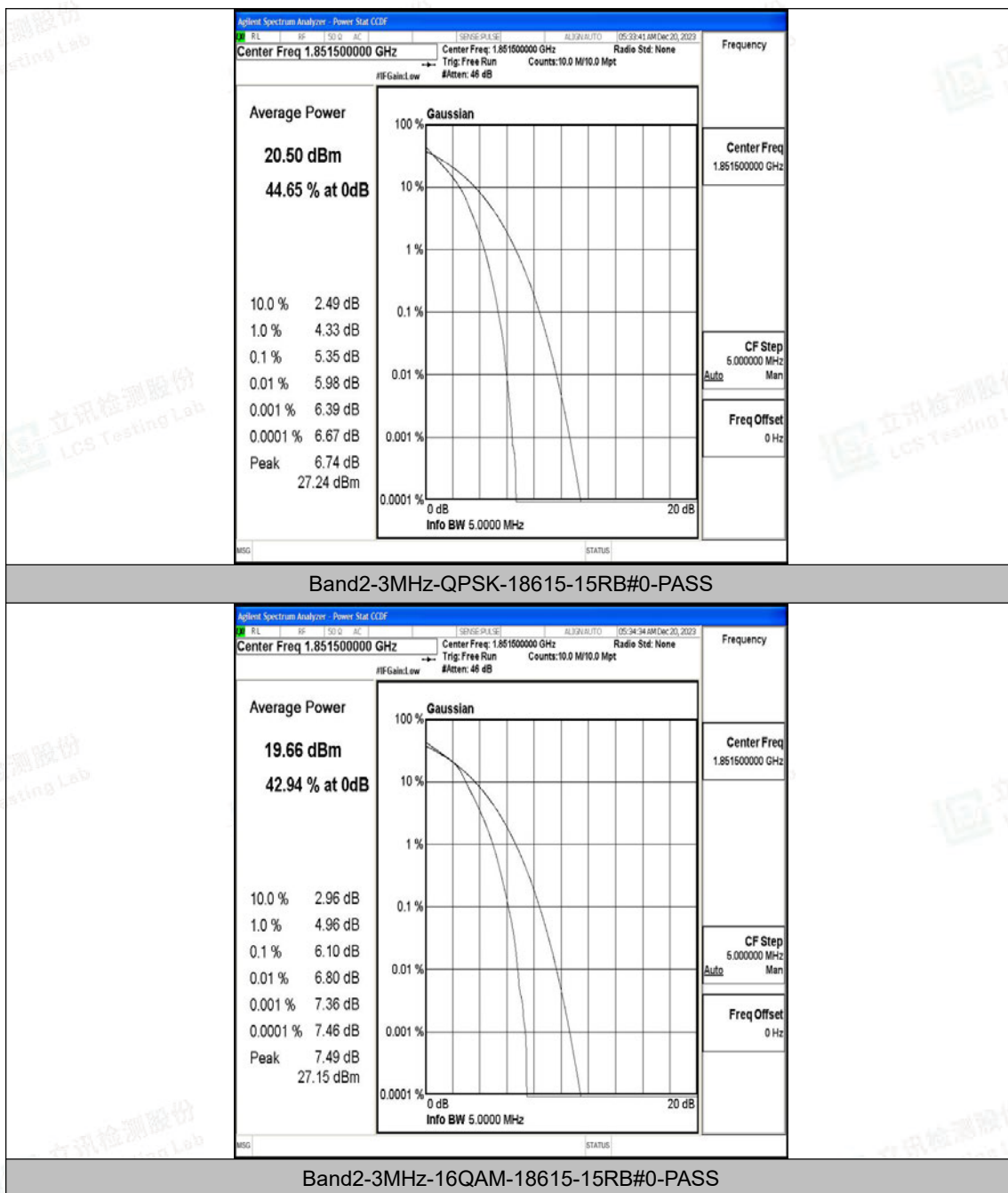


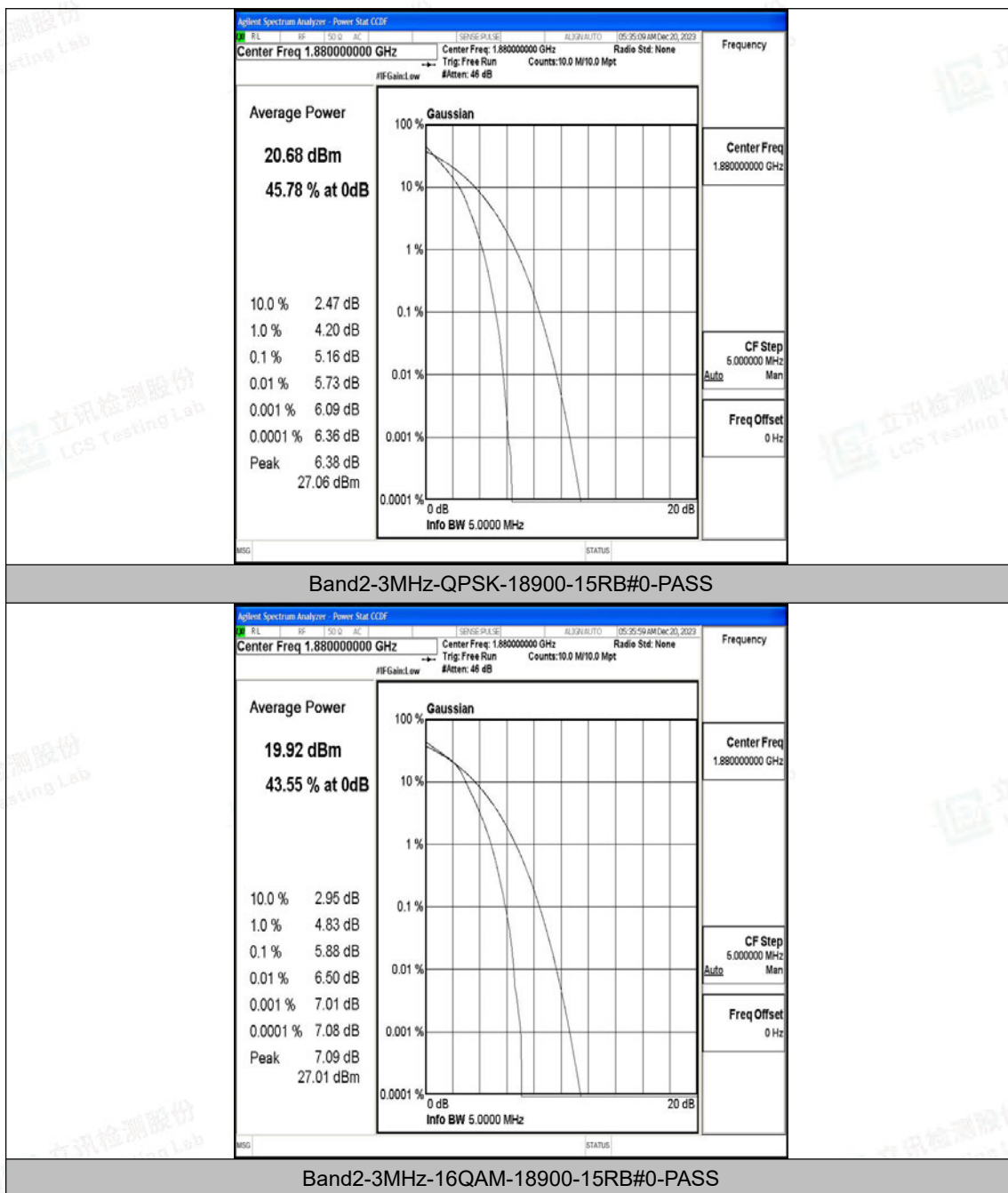
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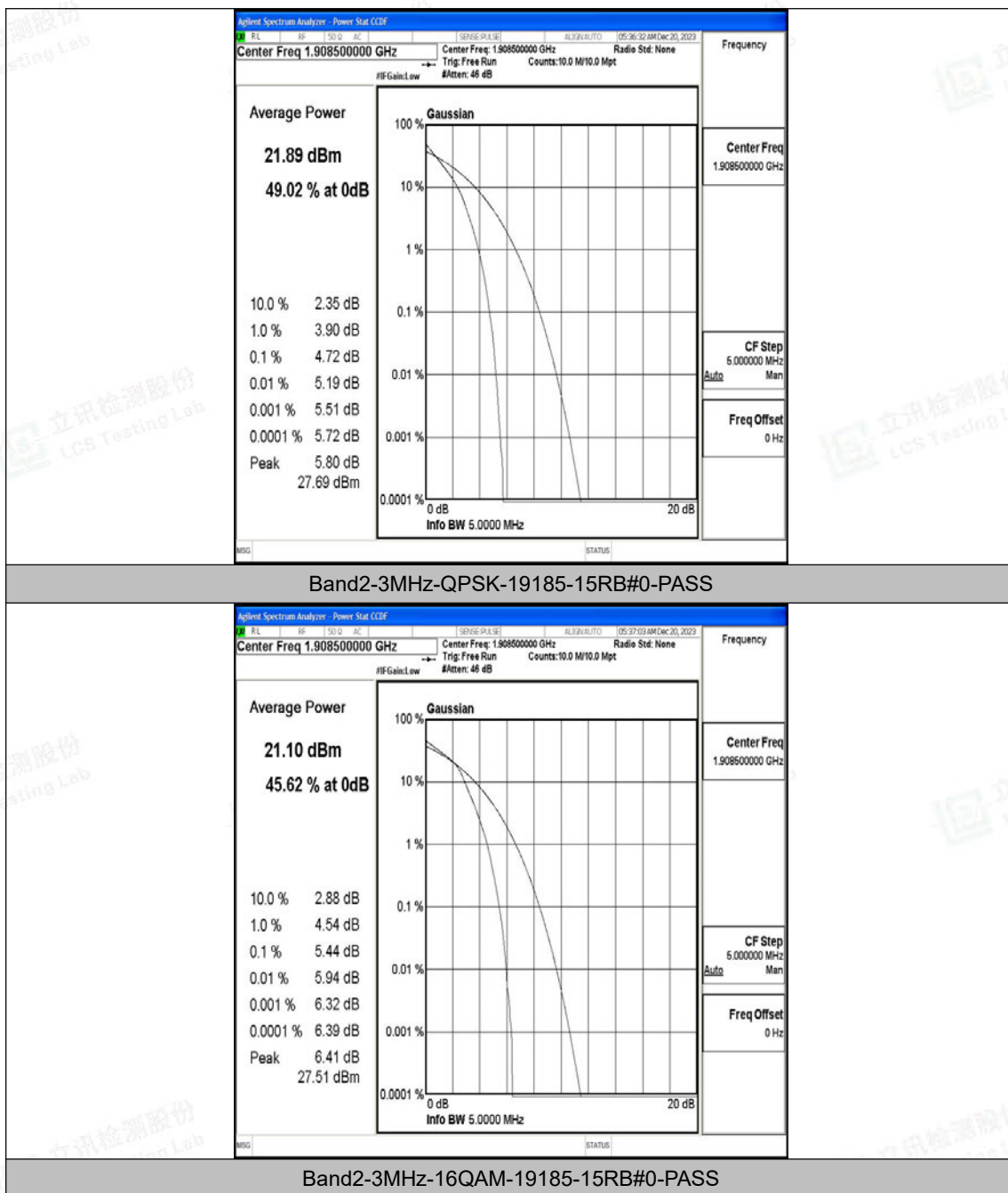
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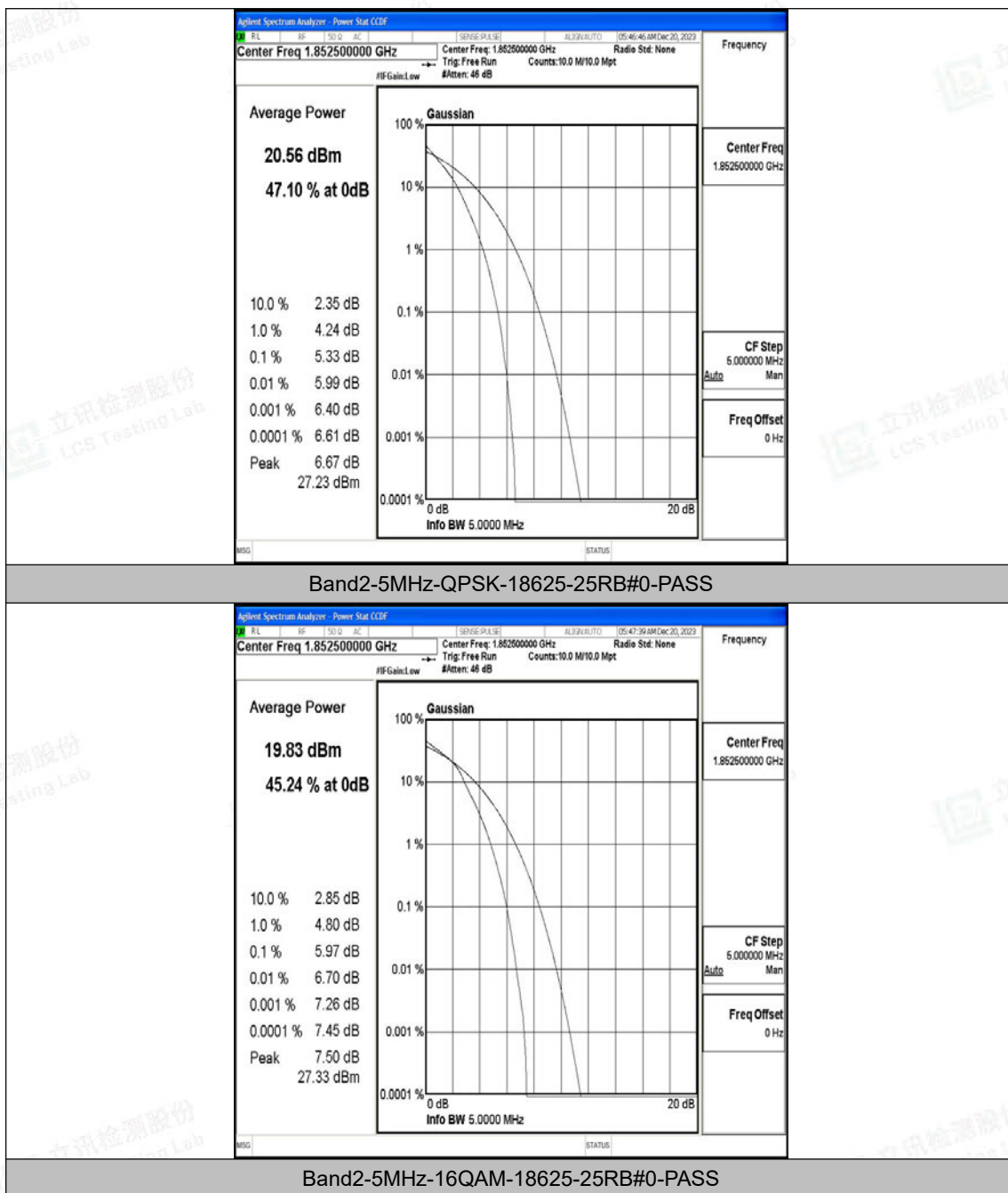
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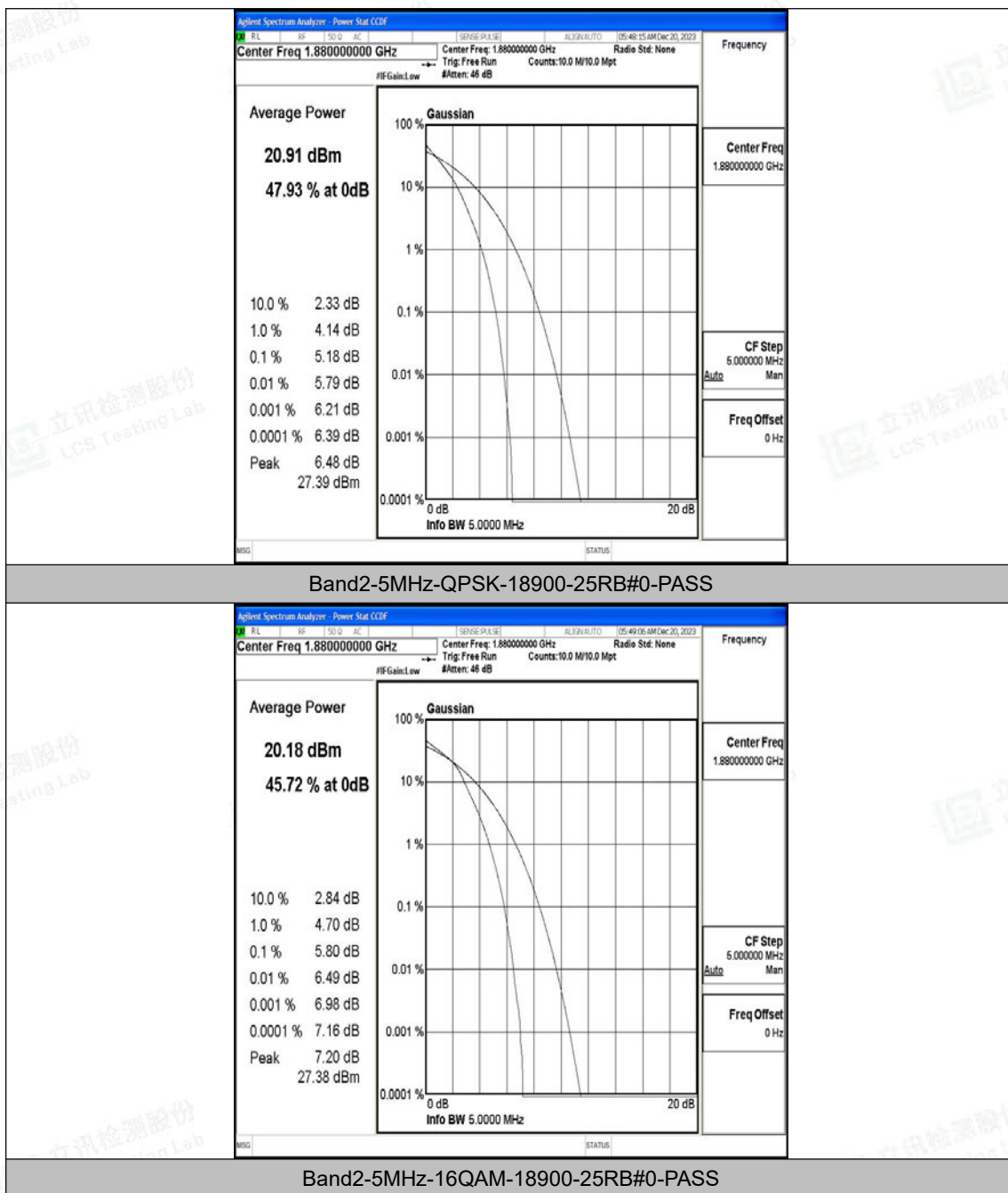


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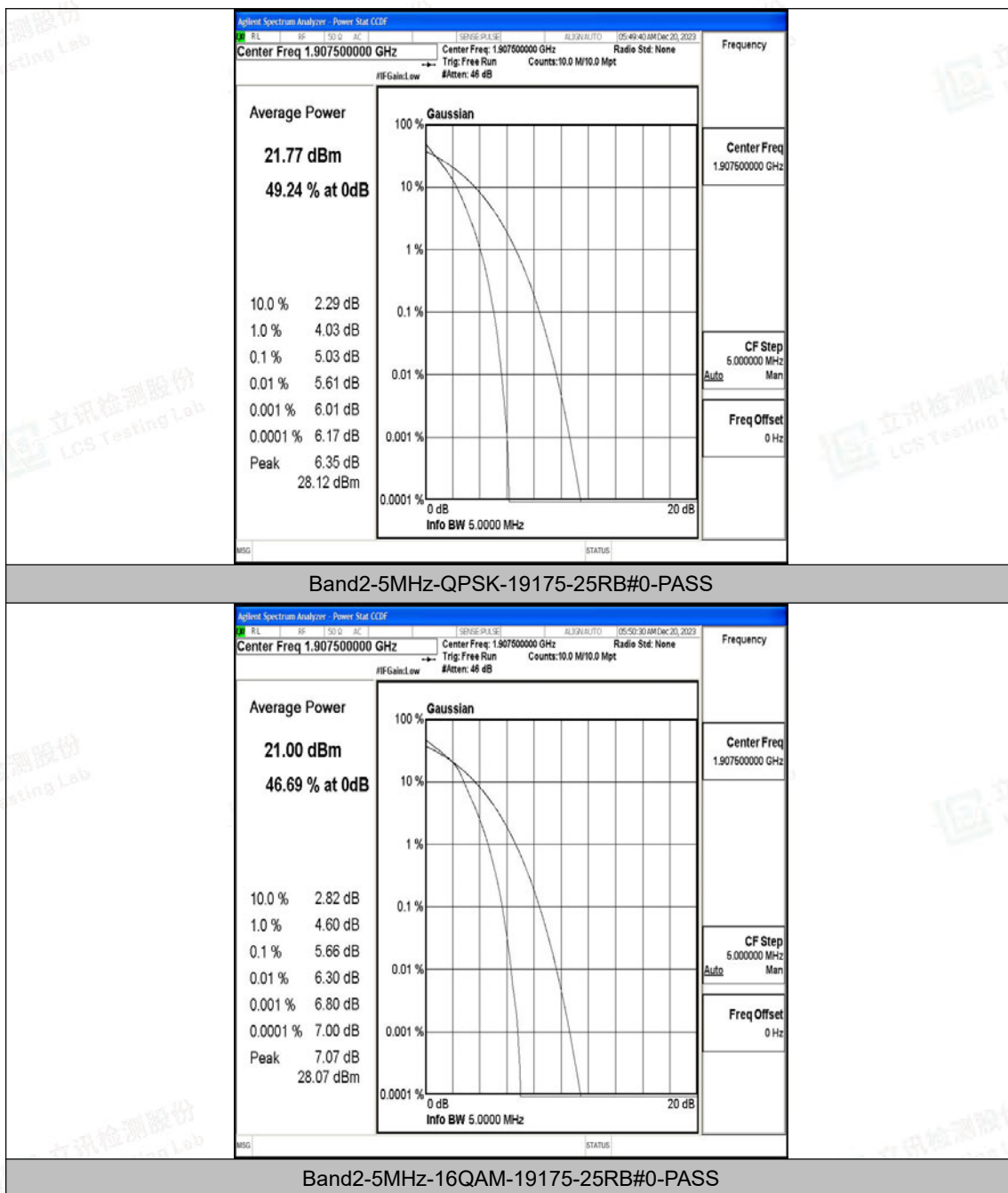


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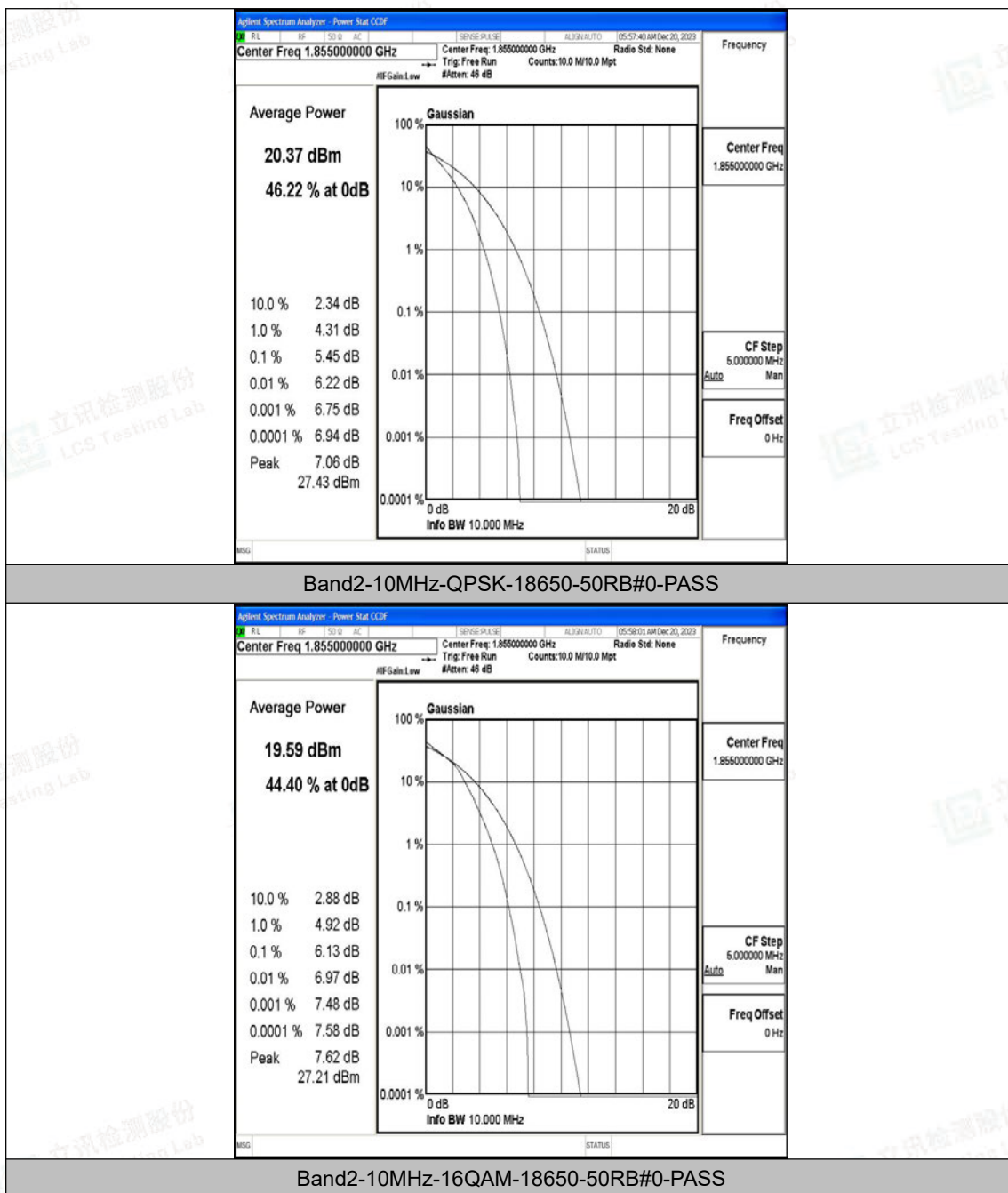


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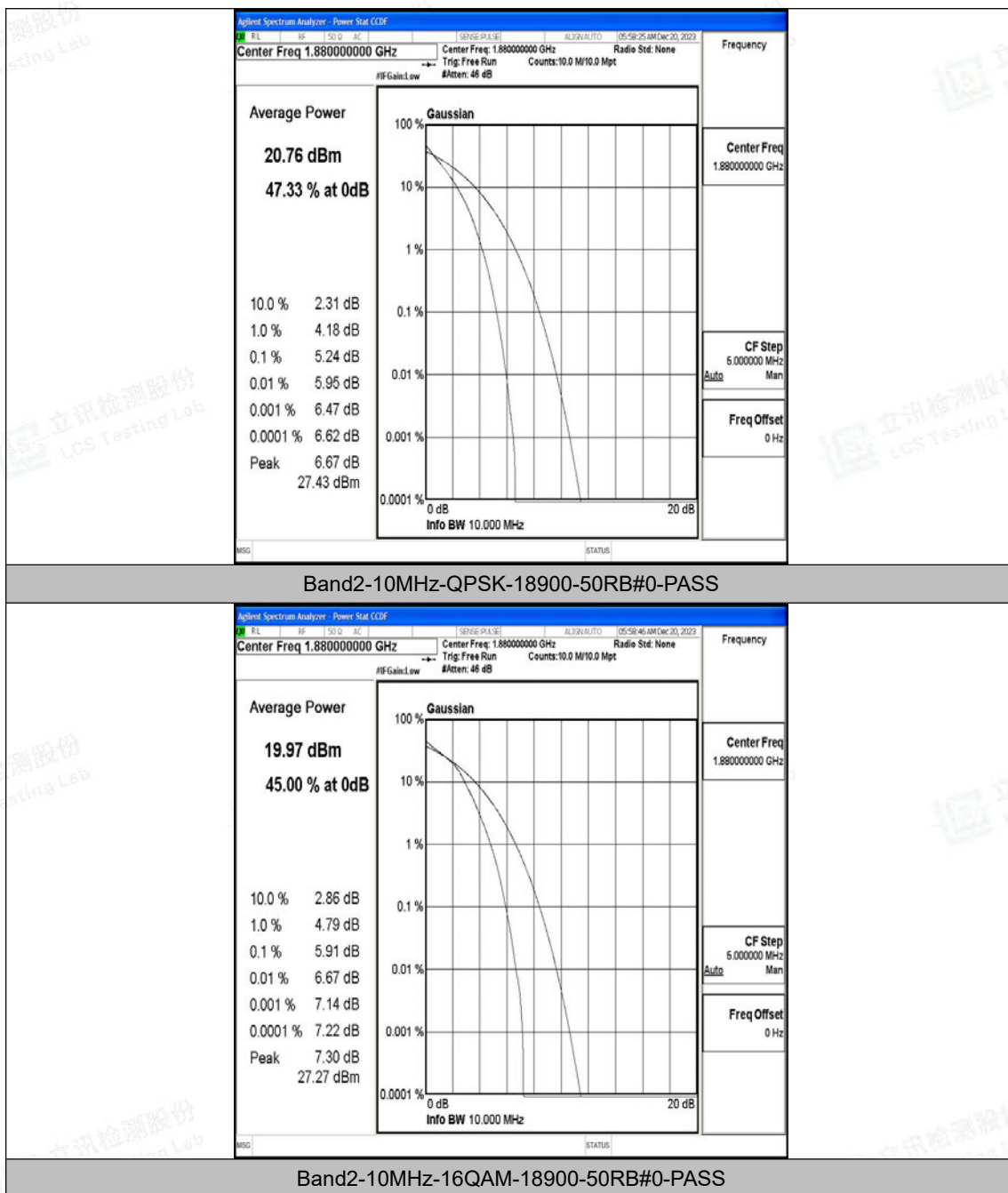


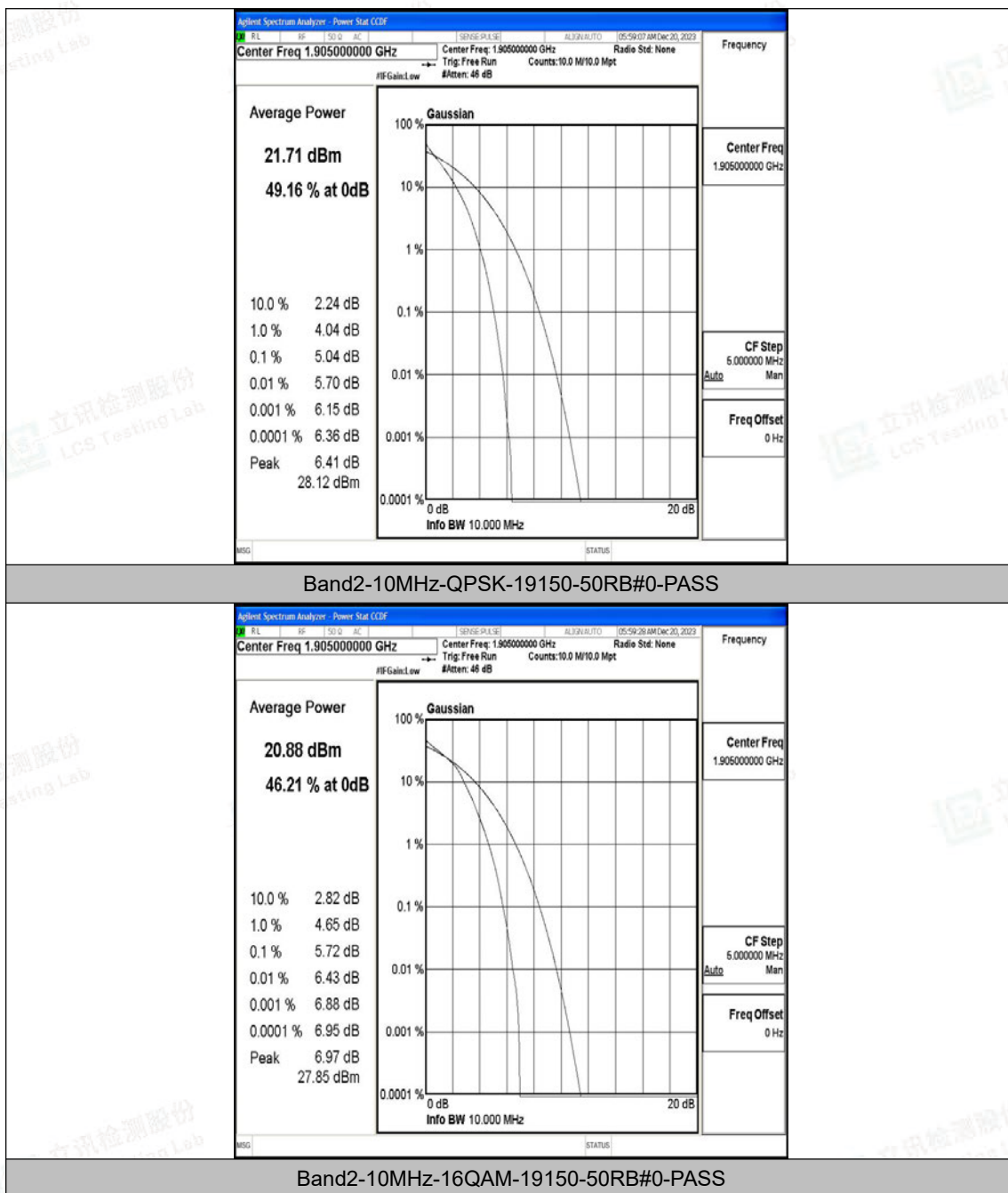
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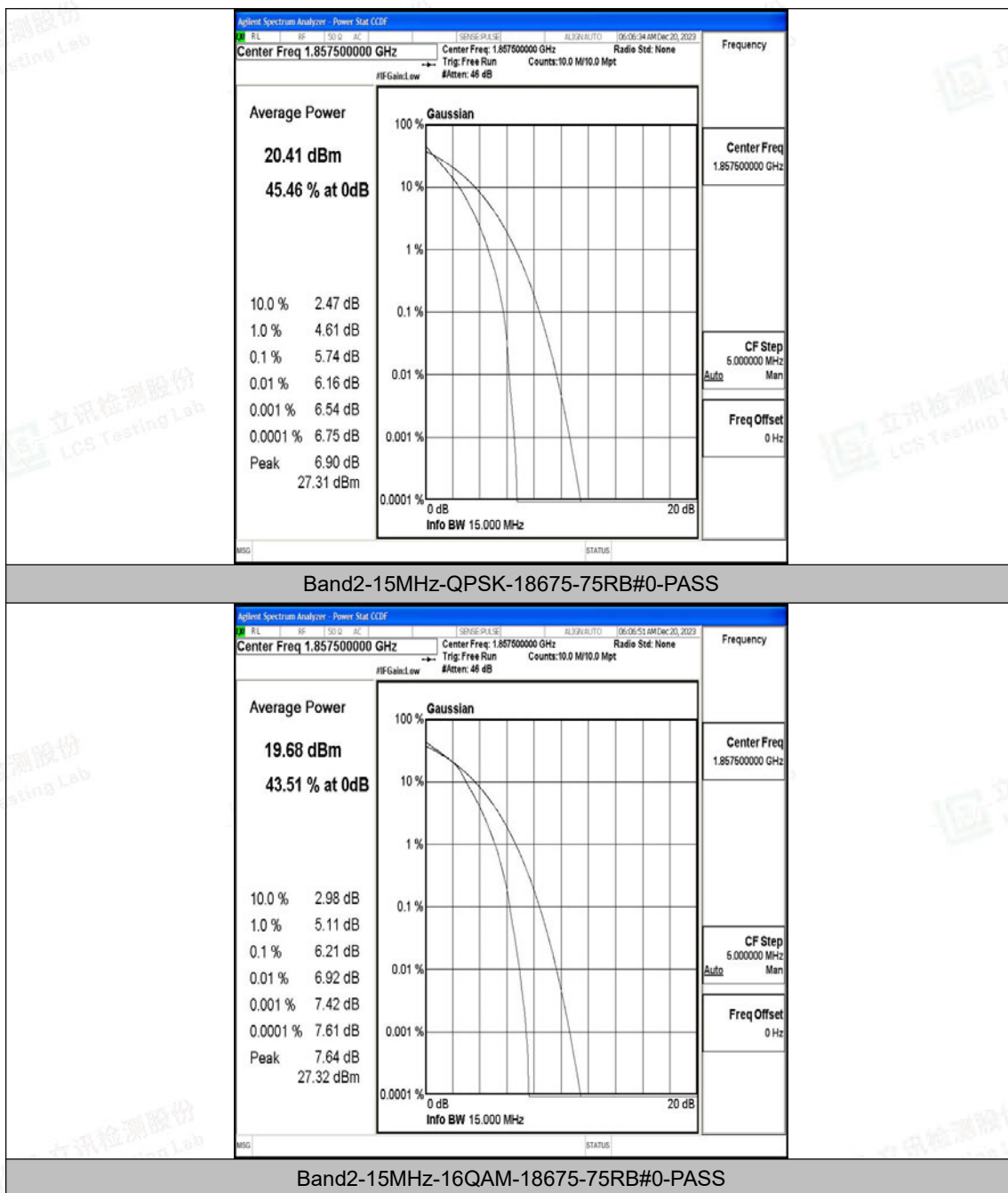


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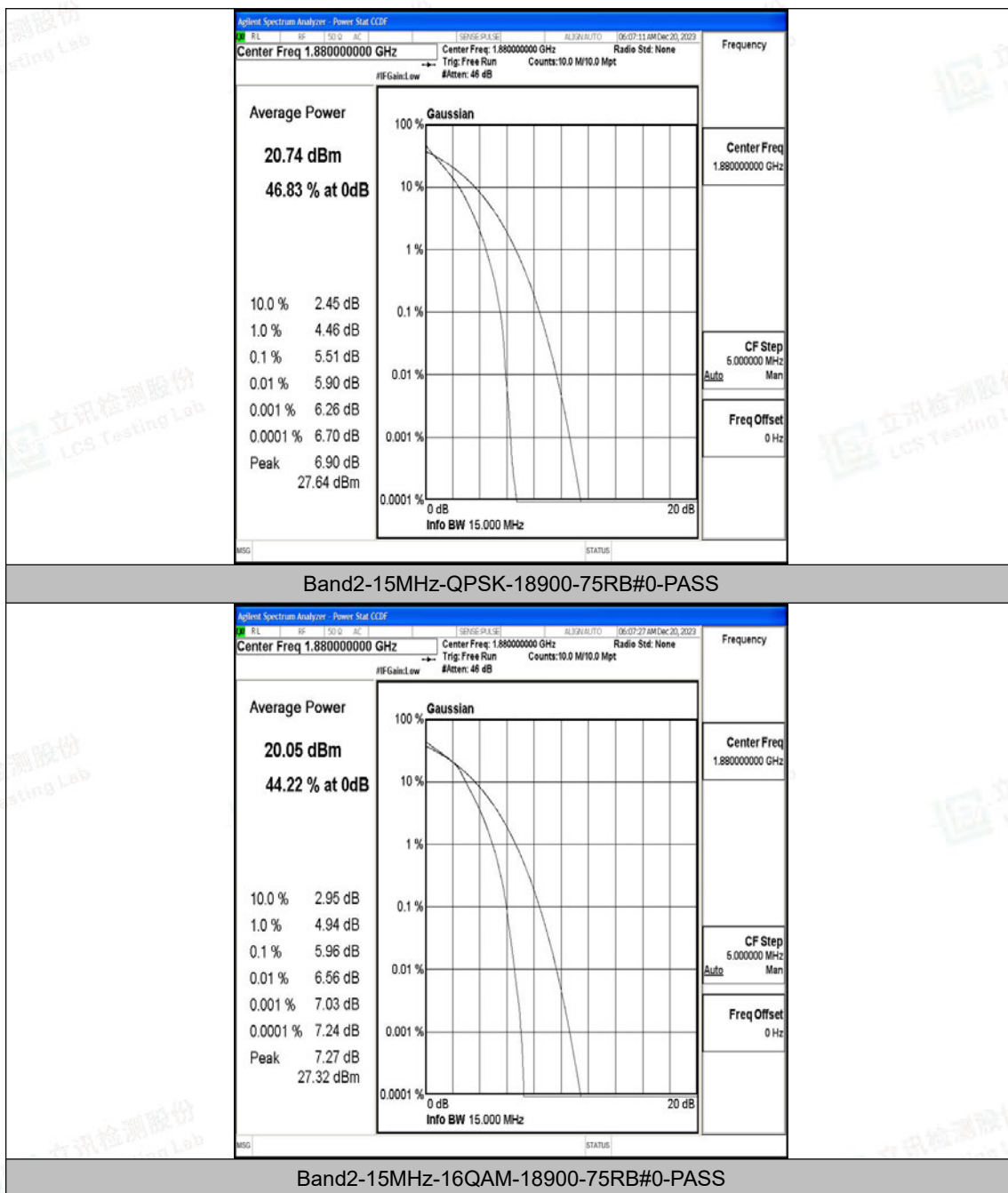


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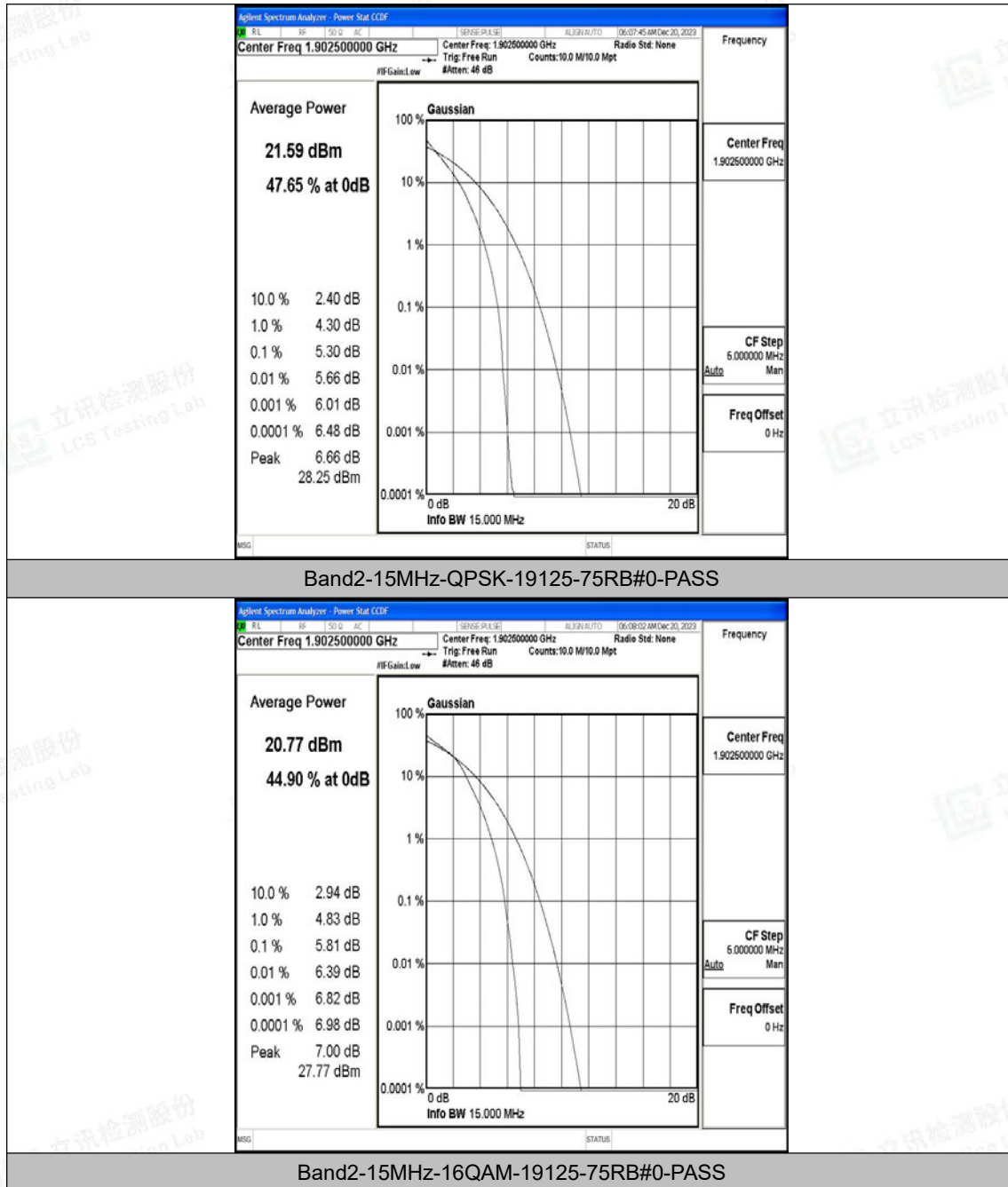


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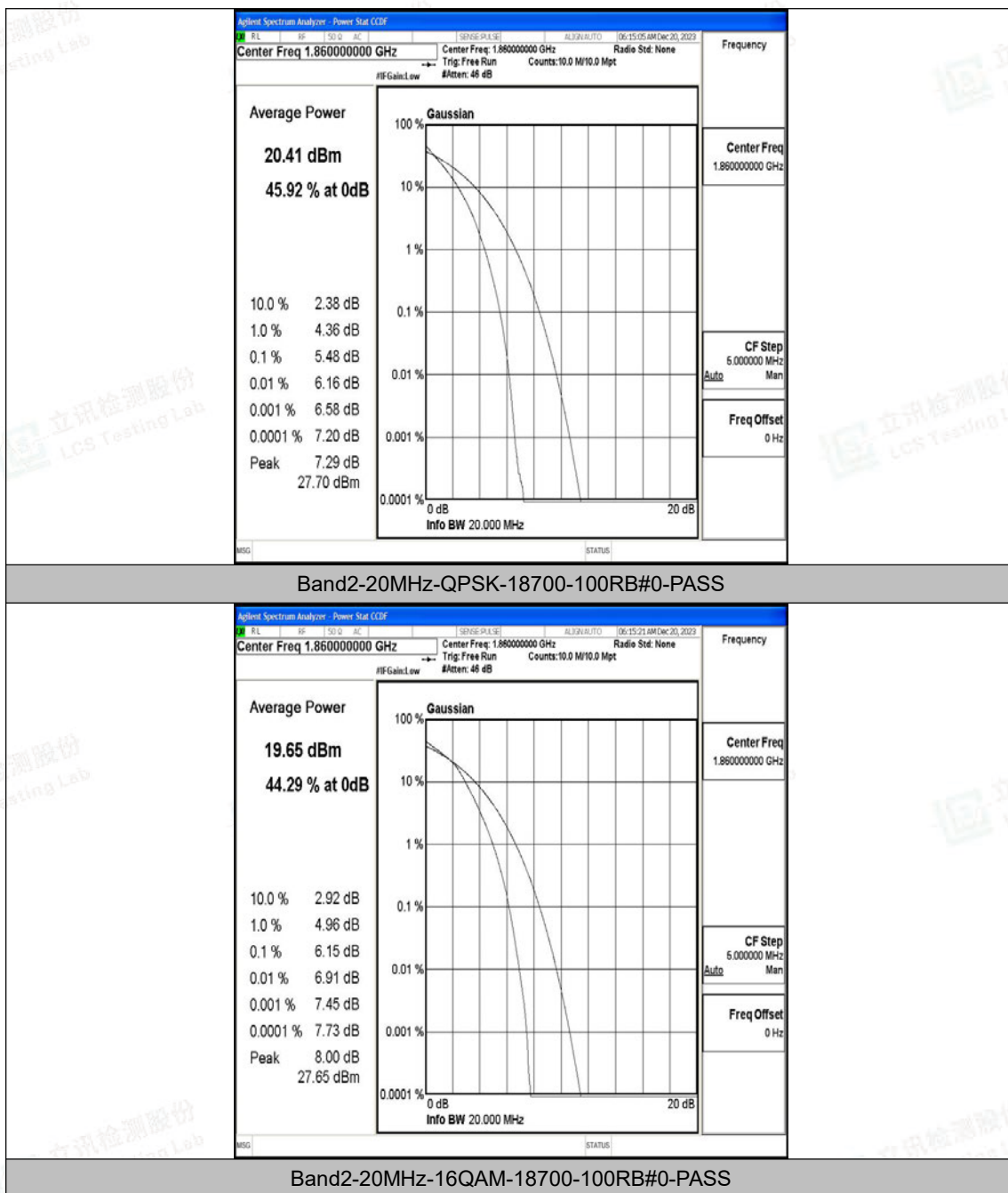


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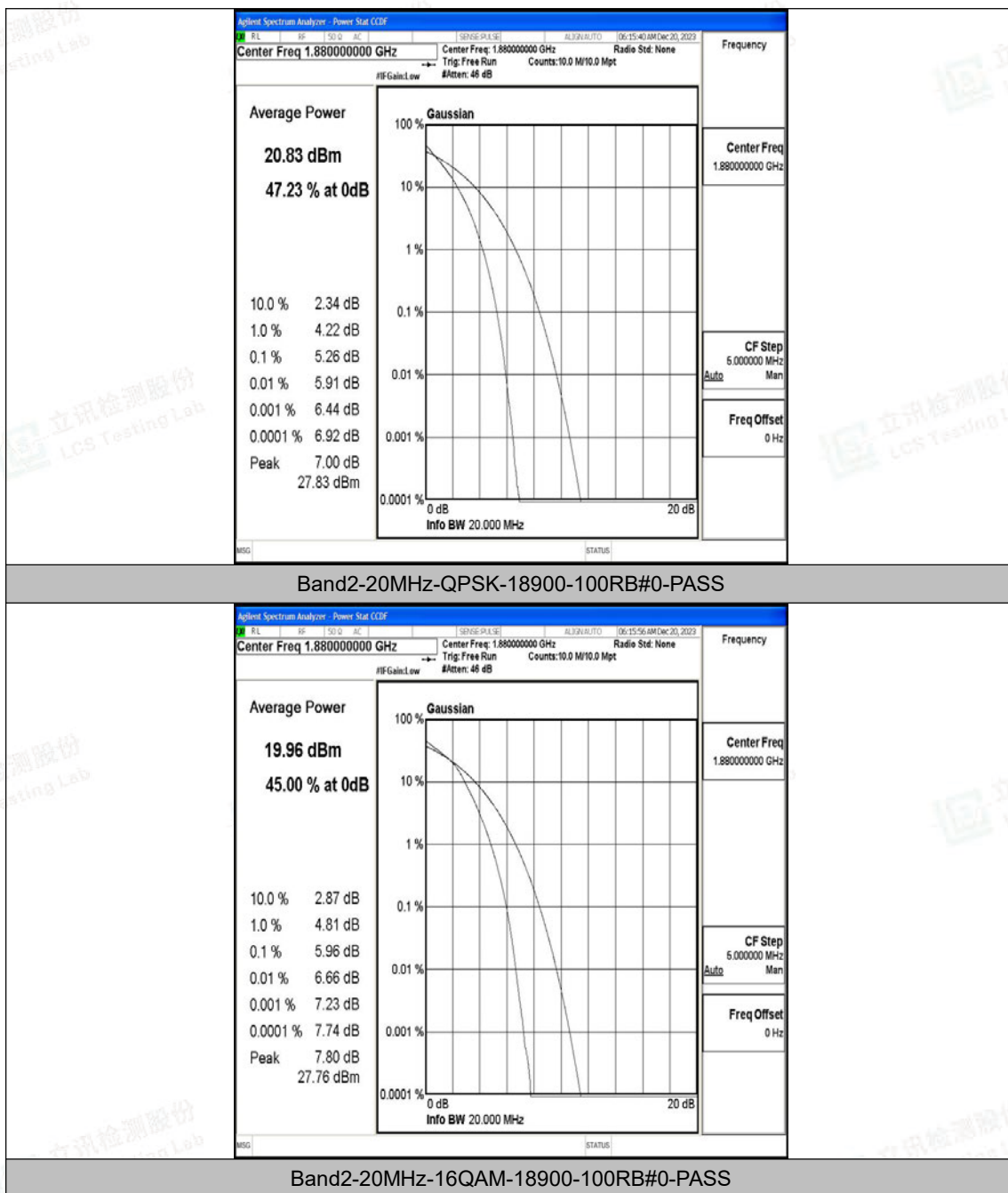


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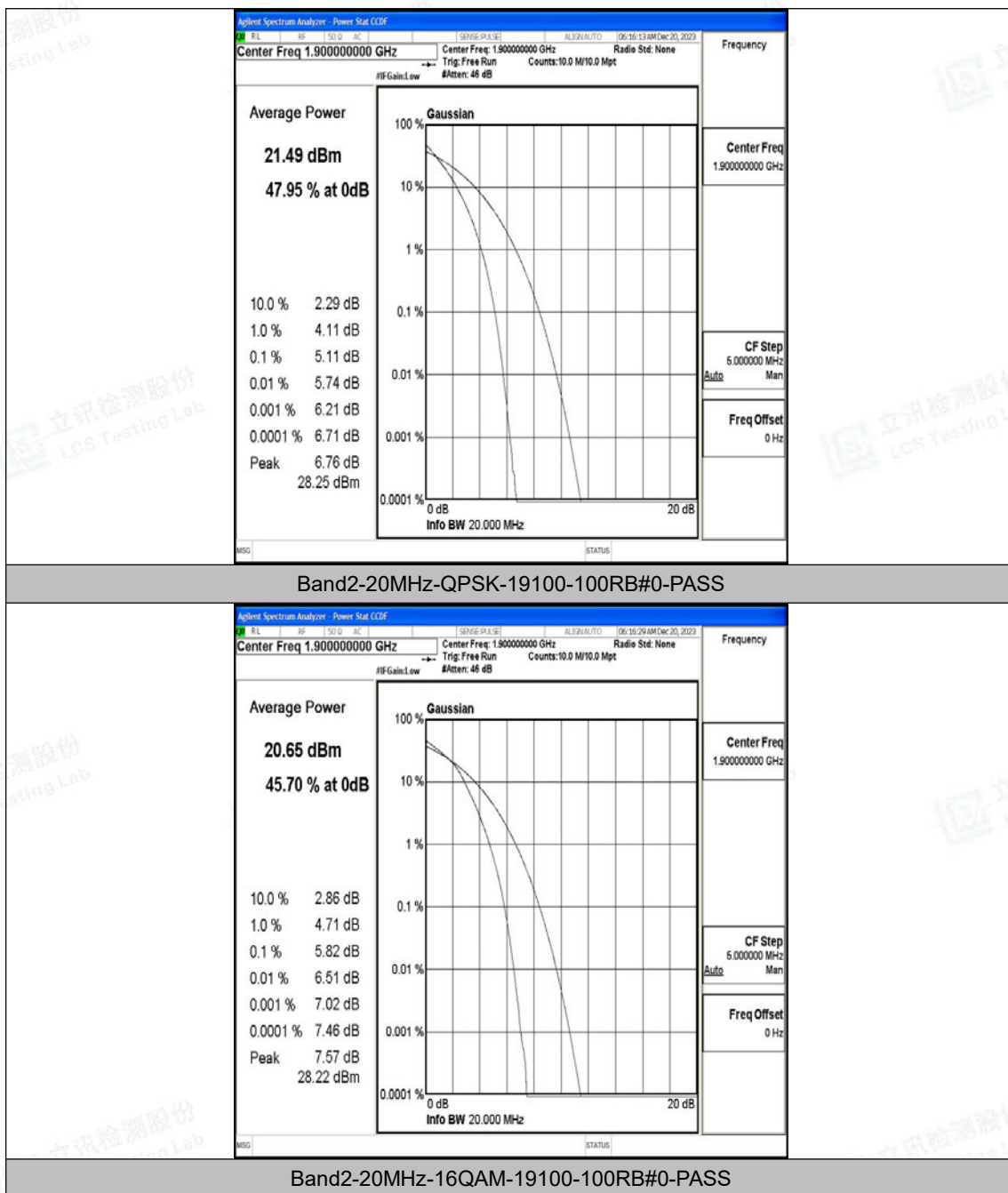


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A.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0965	1.268	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.1025	1.301	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0922	1.281	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.1021	1.297	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0957	1.448	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.1036	1.362	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.7145	3.200	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.7044	3.068	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7046	3.105	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.7026	3.084	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7082	3.146	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.7032	3.098	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5108	5.219	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5133	5.189	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5146	5.332	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5250	5.292	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5298	5.266	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5206	5.302	PASS
Band2	10MHz	QPSK	18650	50RB#0	9.0186	10.09	PASS
Band2	10MHz	16QAM	18650	50RB#0	9.0075	10.13	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9994	9.979	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9877	9.951	PASS
Band2	10MHz	QPSK	19150	50RB#0	9.0052	10.19	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9977	10.23	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.536	15.53	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.510	14.89	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.515	15.09	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.490	14.95	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.521	15.09	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.481	15.11	PASS
Band2	20MHz	QPSK	18700	100RB#0	18.058	19.99	PASS
Band2	20MHz	16QAM	18700	100RB#0	18.057	20.04	PASS
Band2	20MHz	QPSK	18900	100RB#0	18.020	19.99	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.057	19.85	PASS



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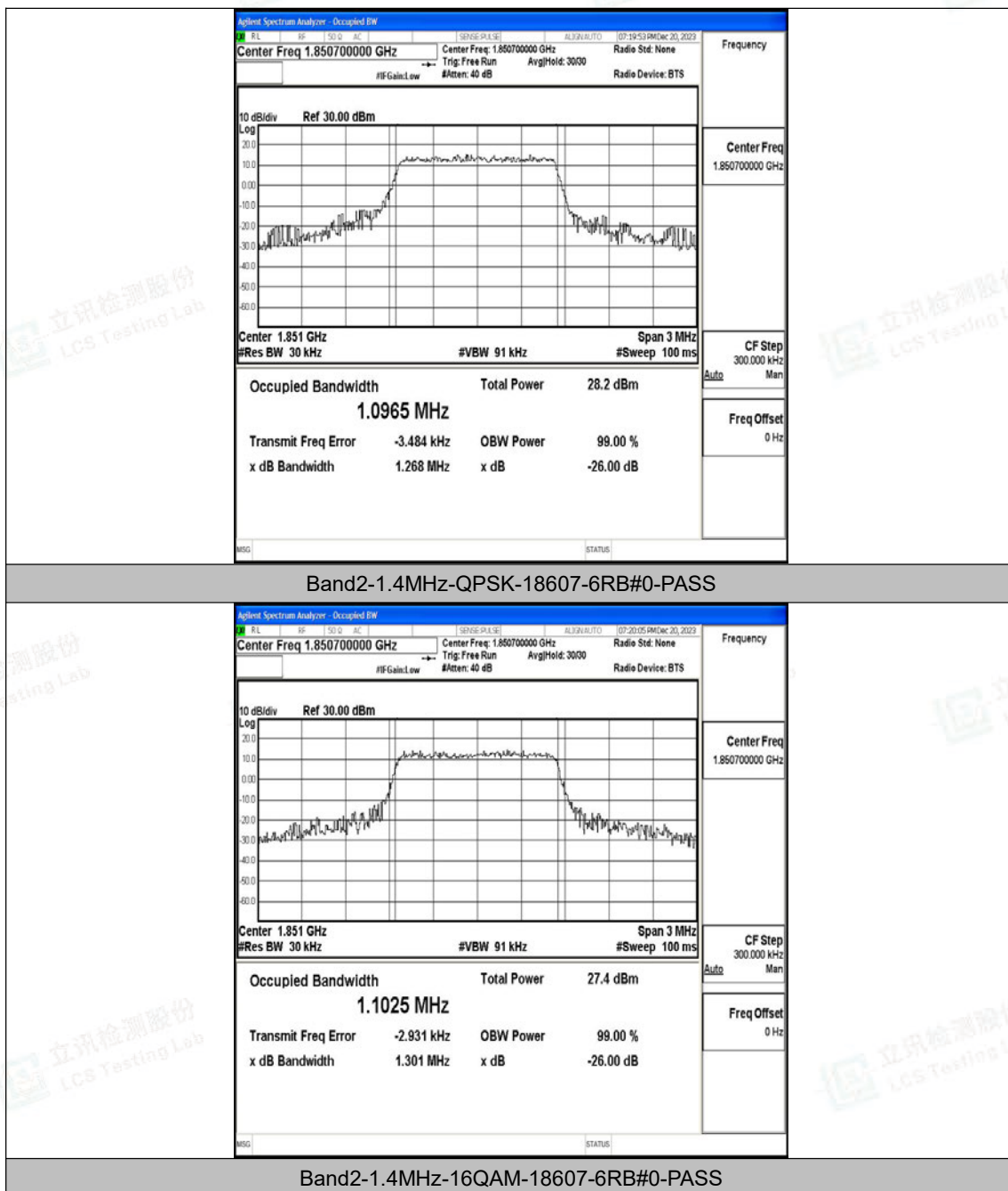
Band2	20MHz	QPSK	19100	100RB#0	18.026	20.05	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.005	20.23	PASS



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Test Graphs

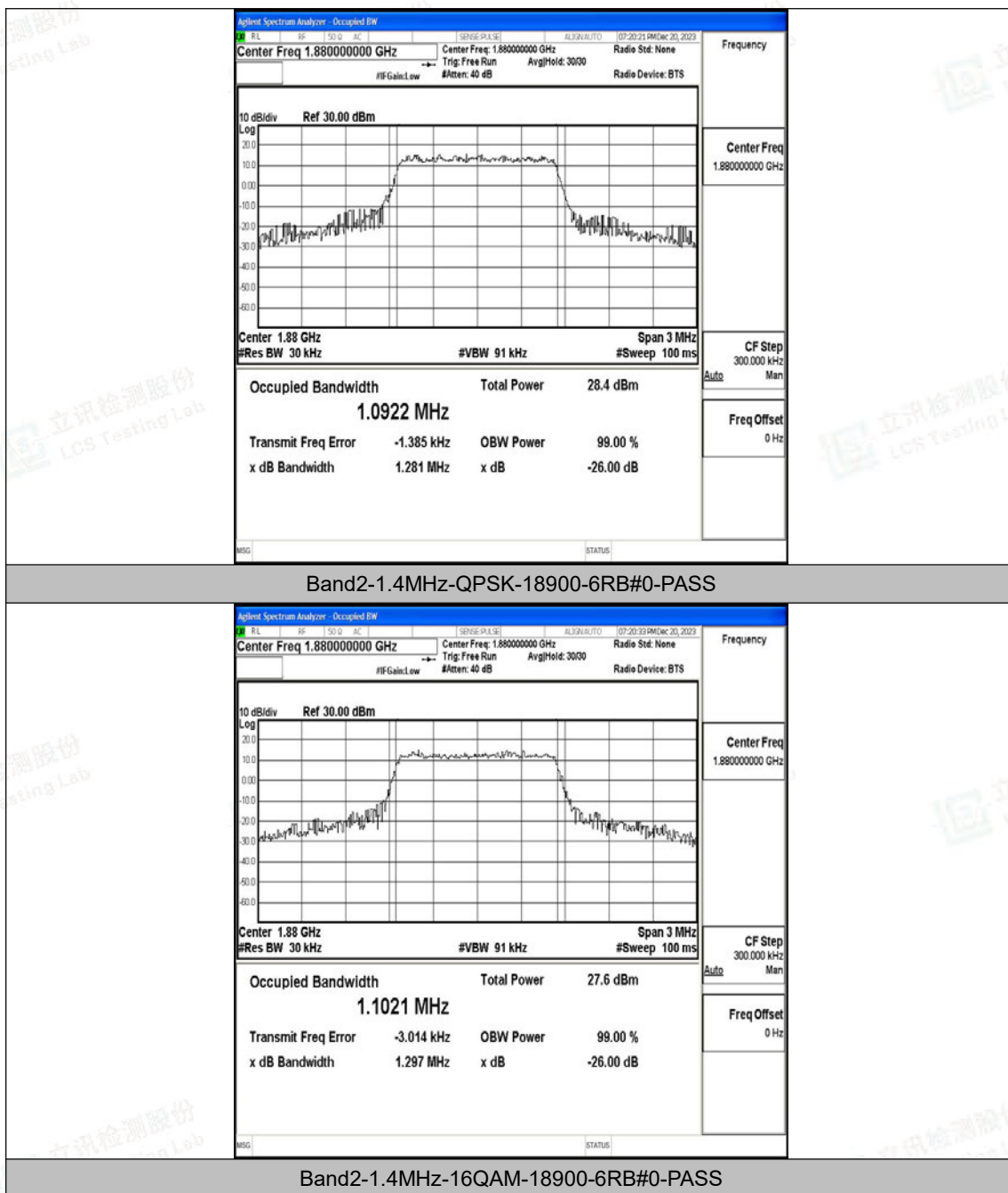


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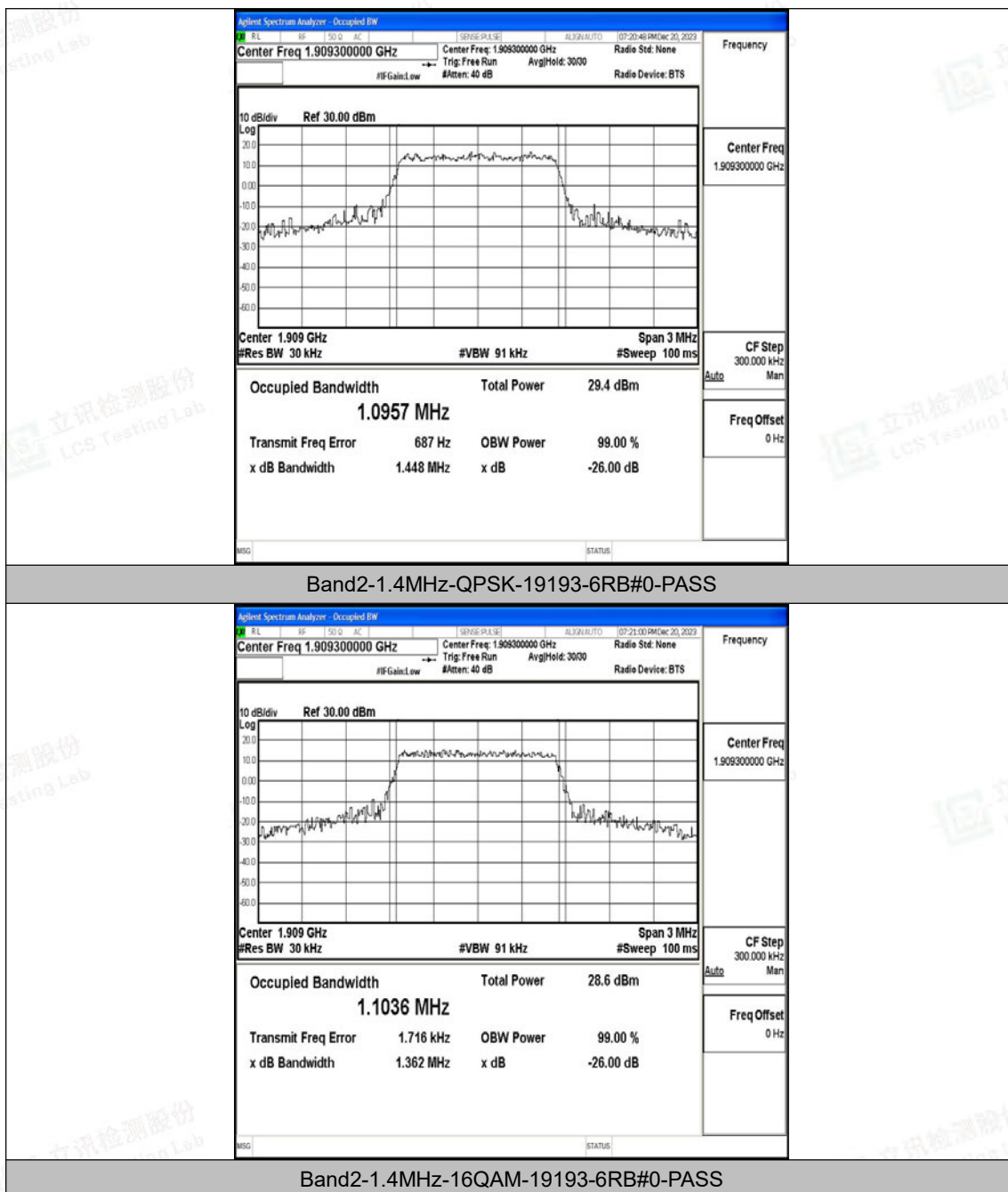


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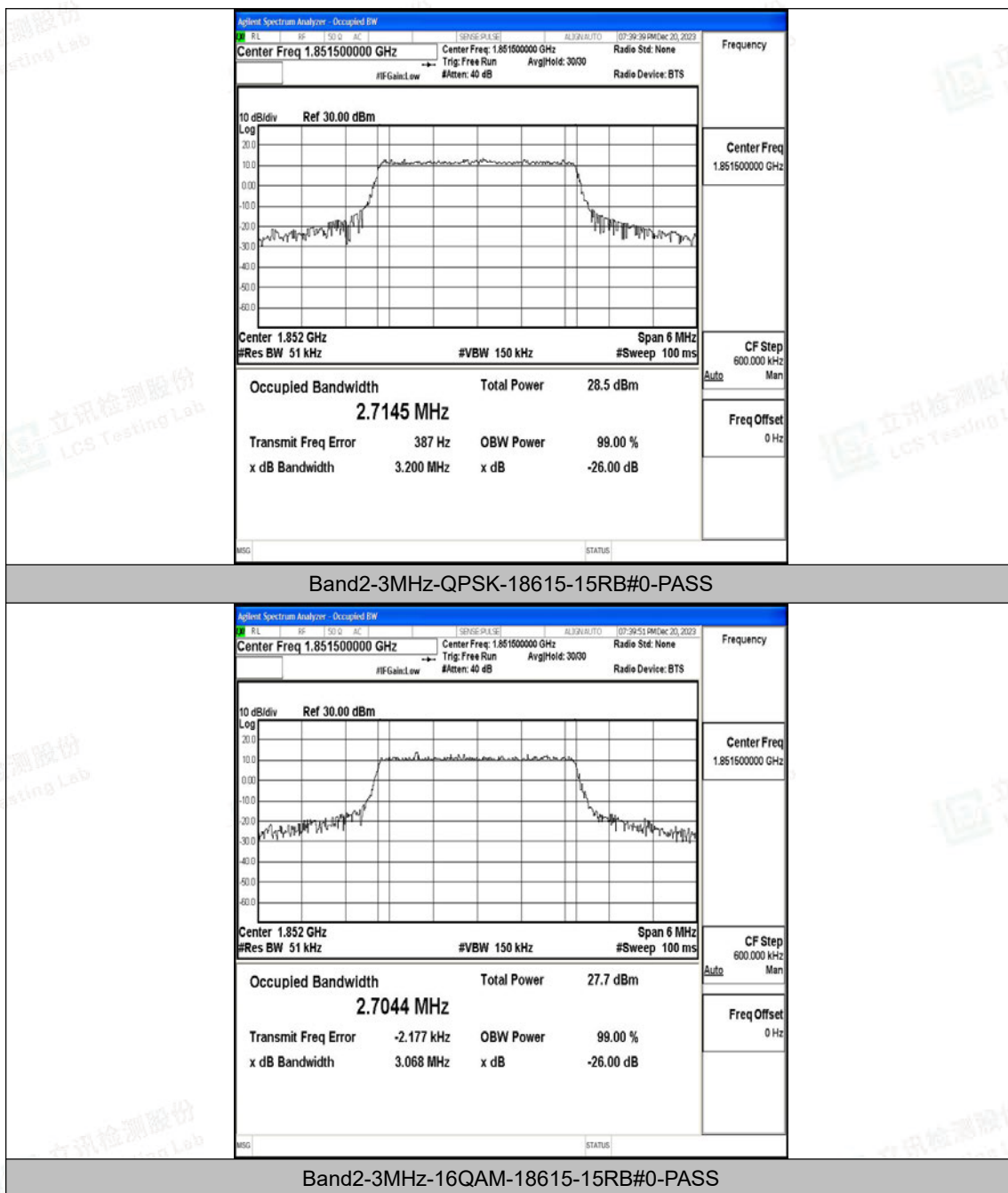


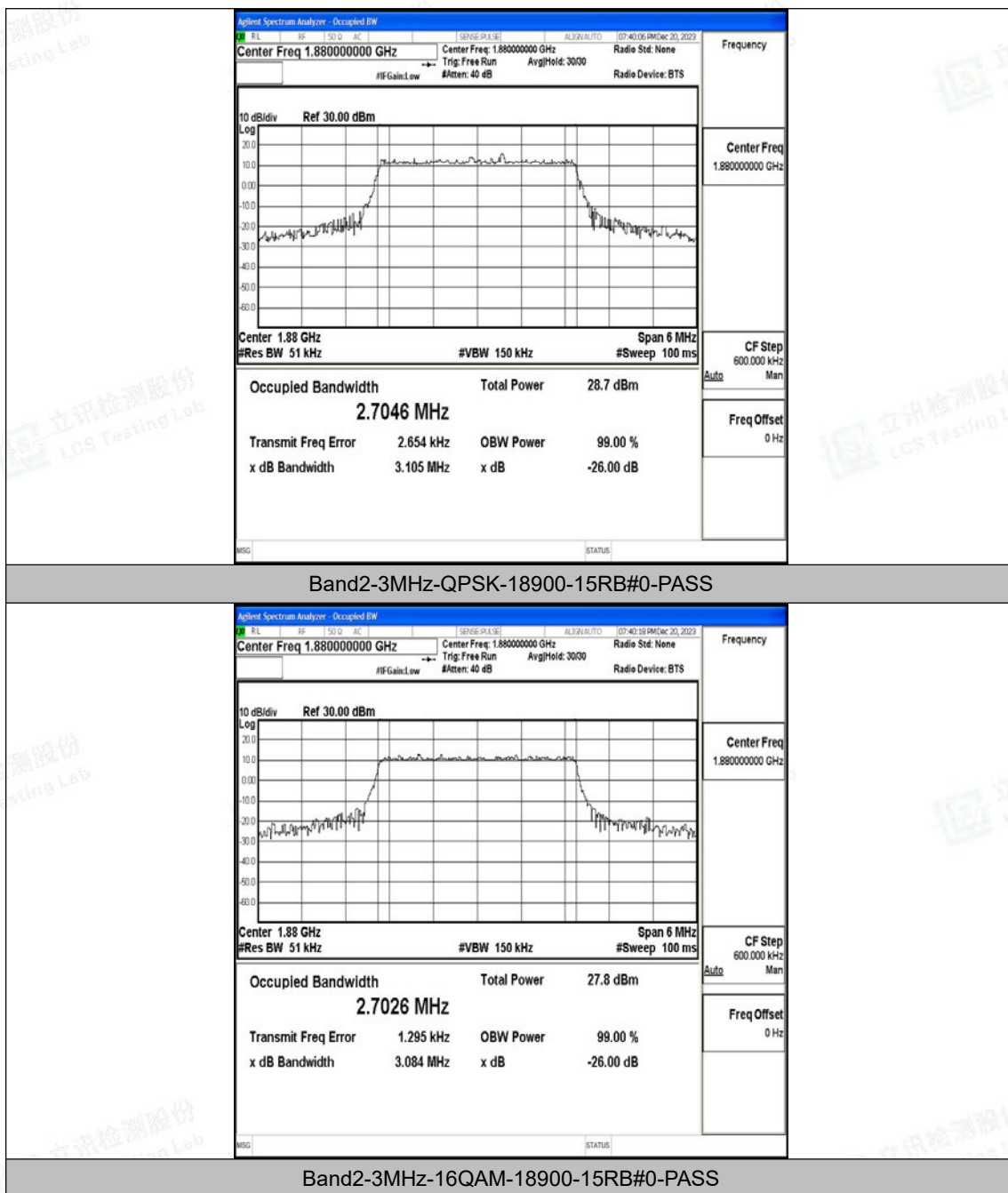
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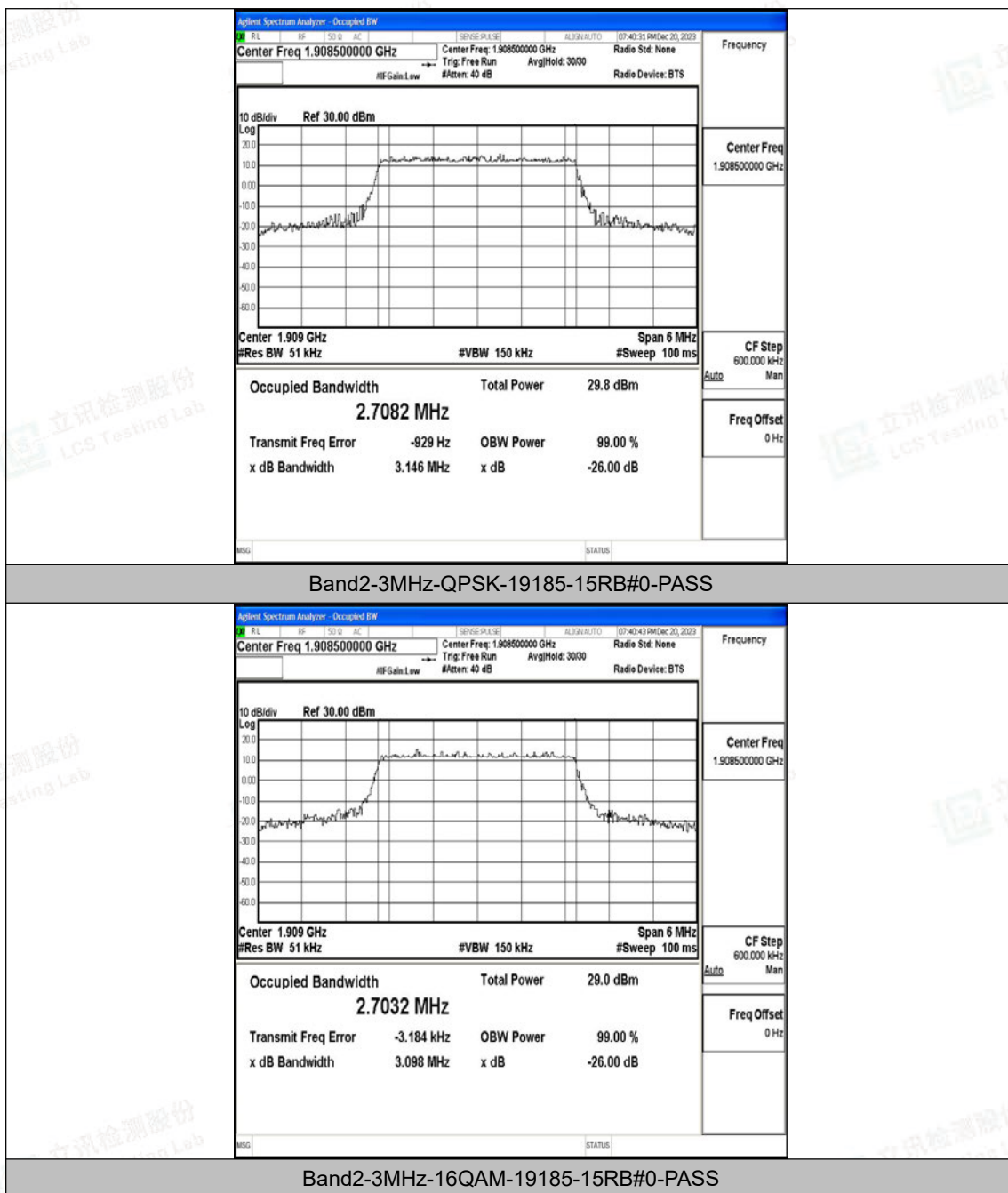


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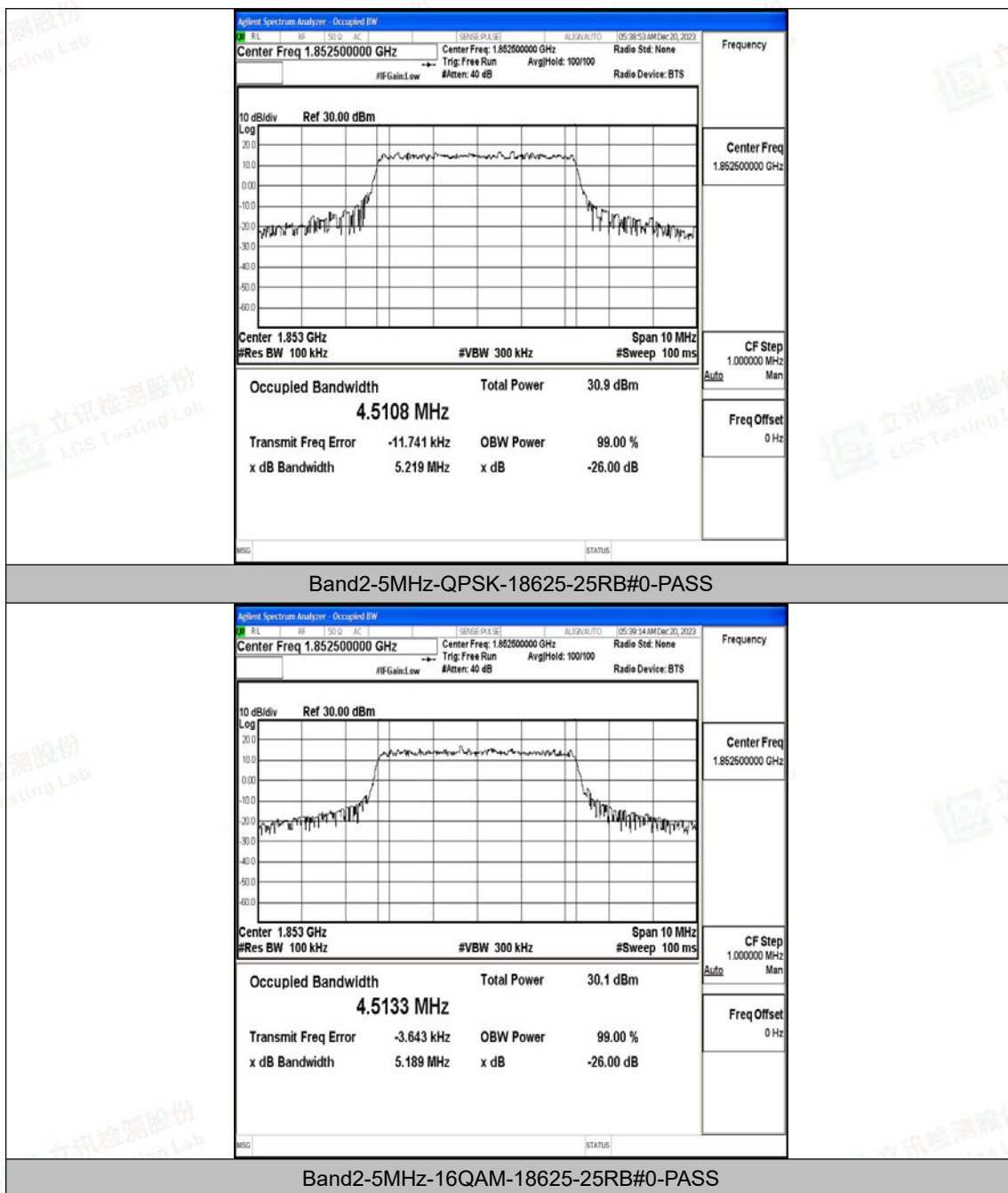


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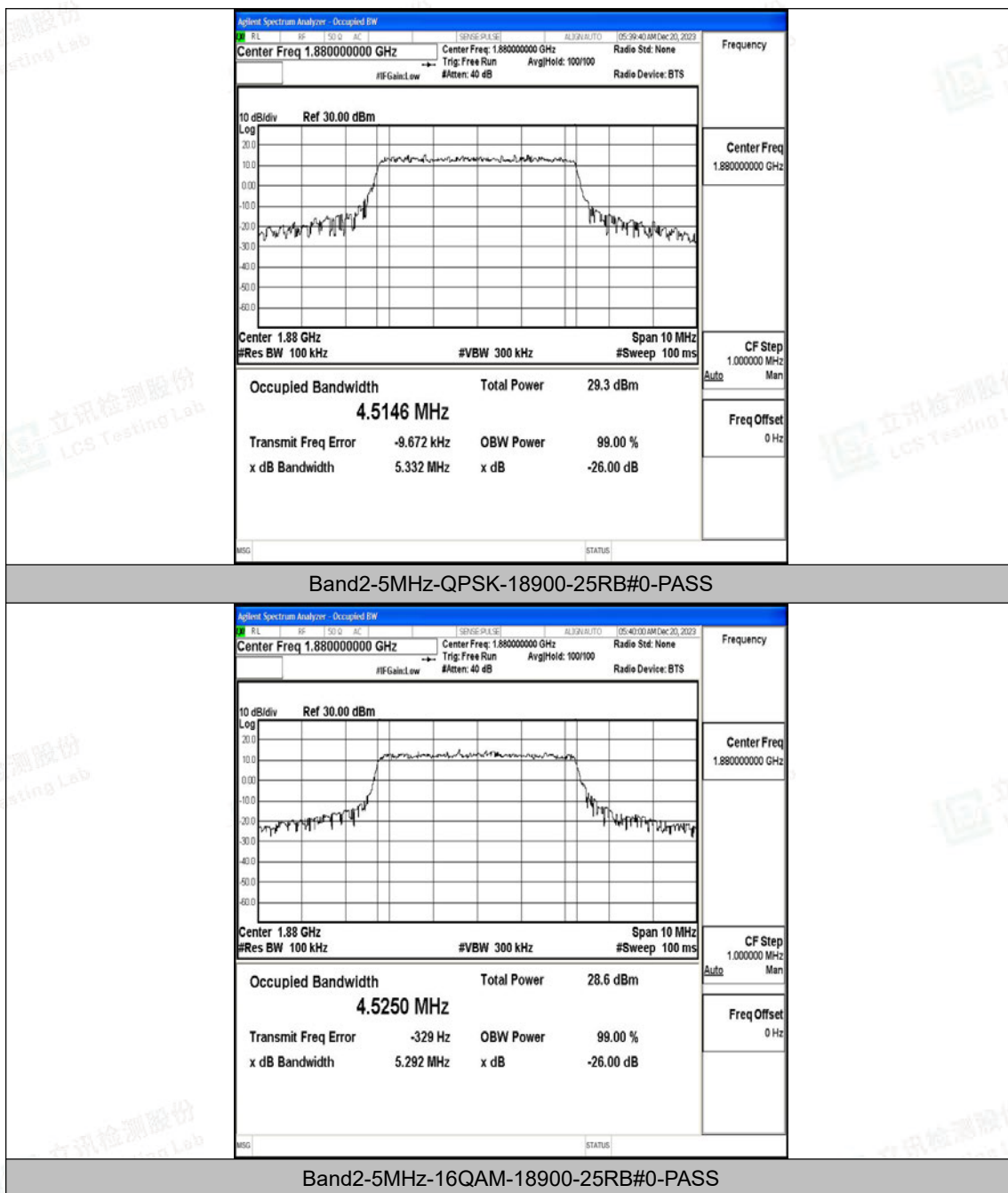


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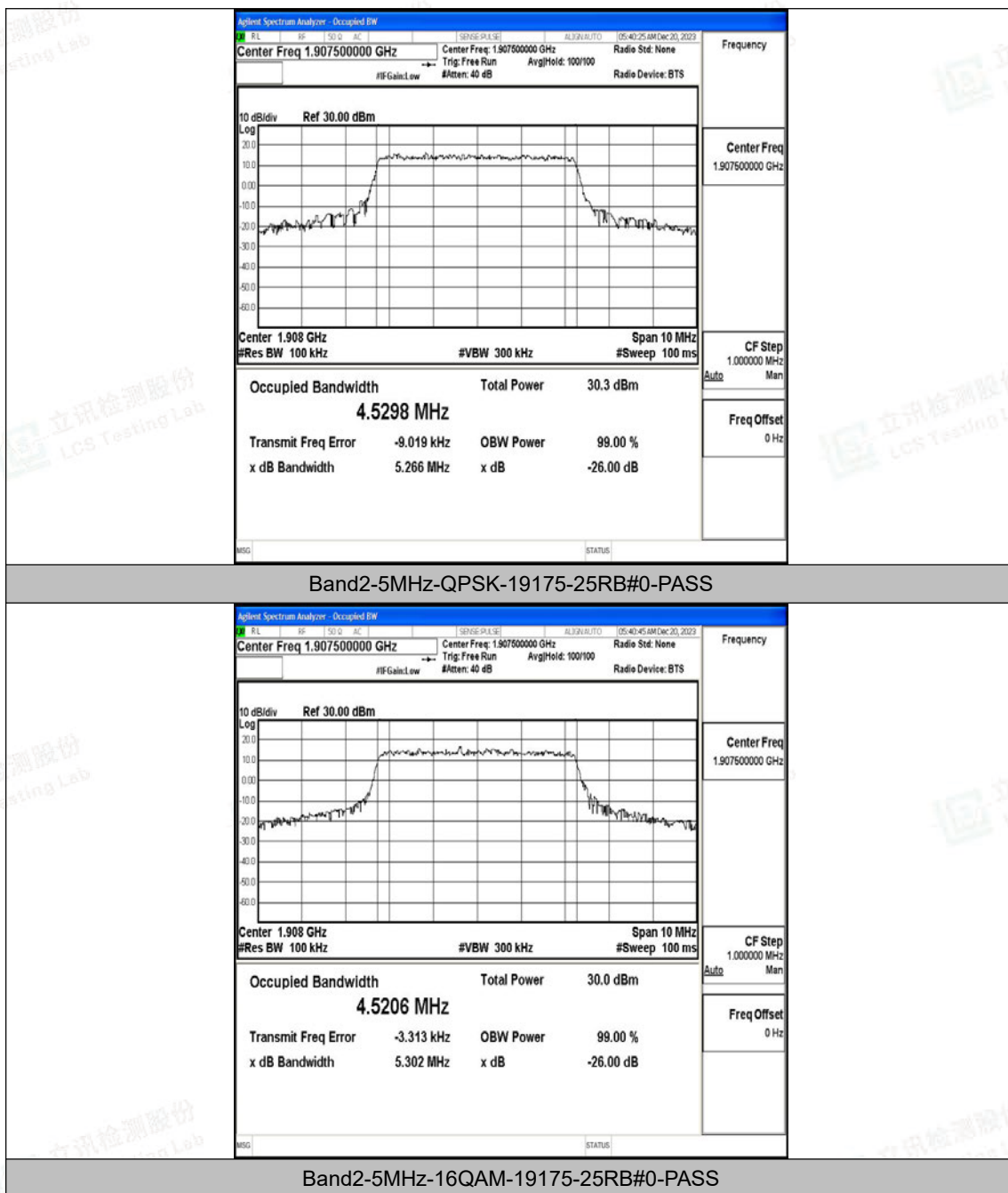


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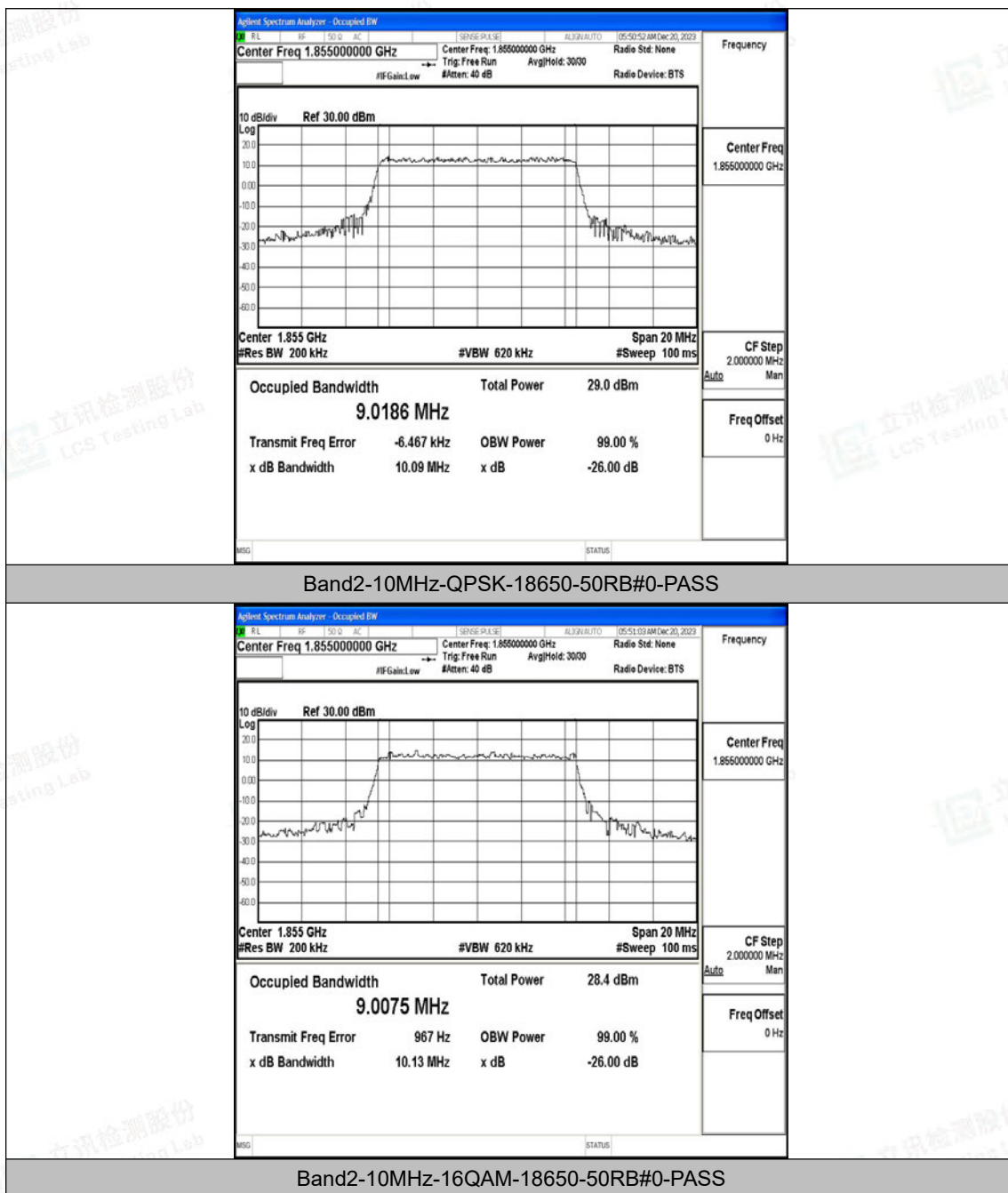


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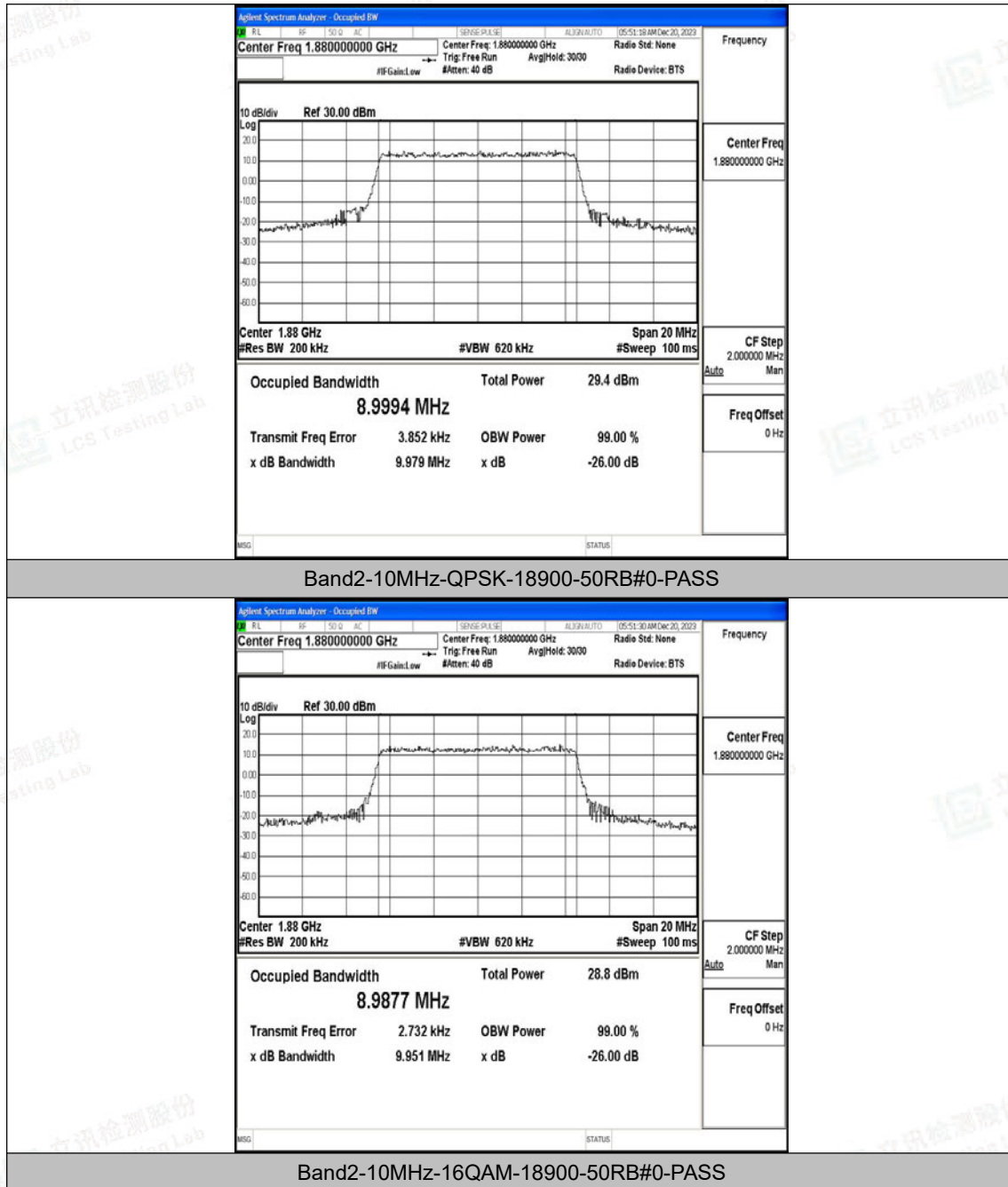


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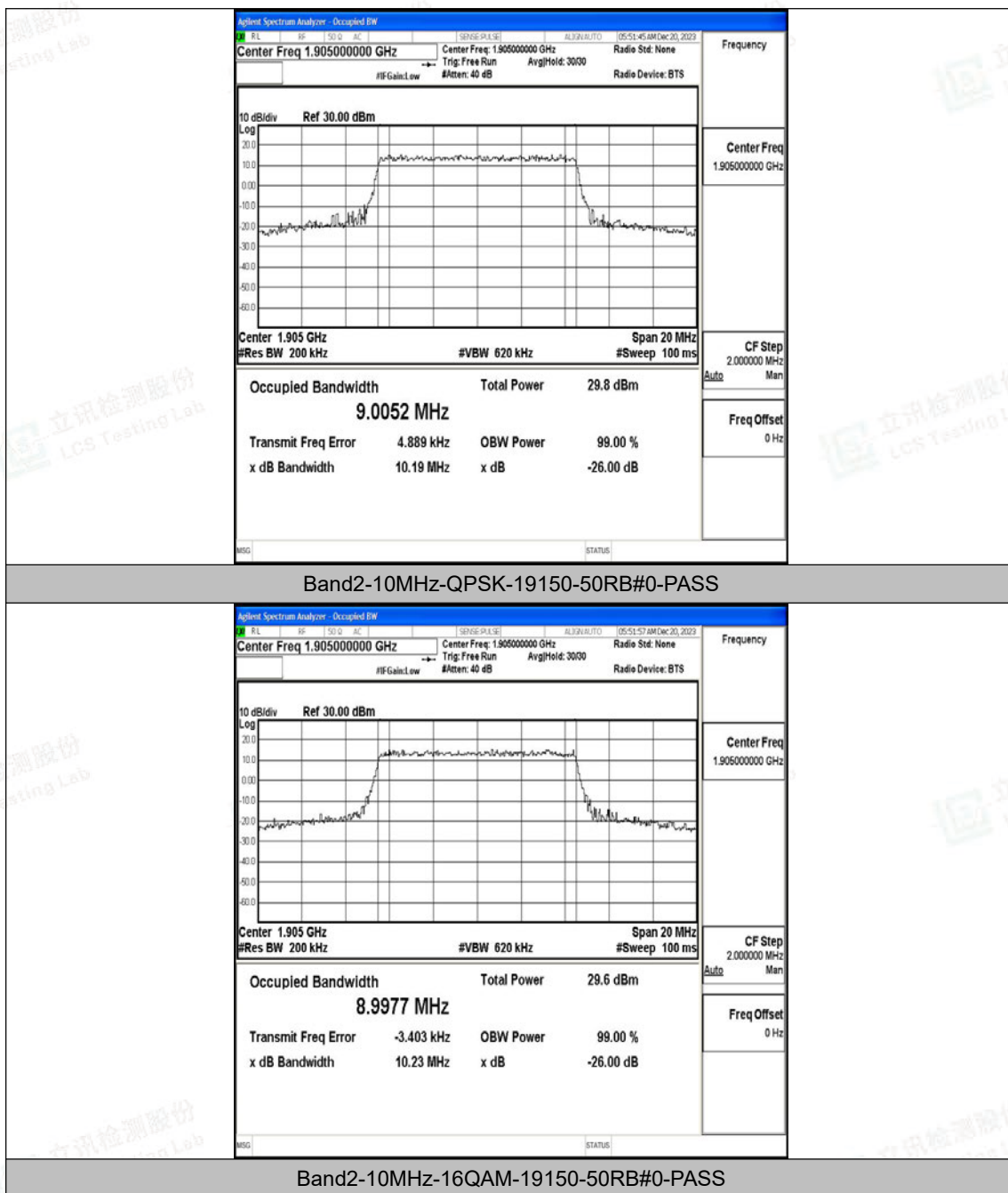


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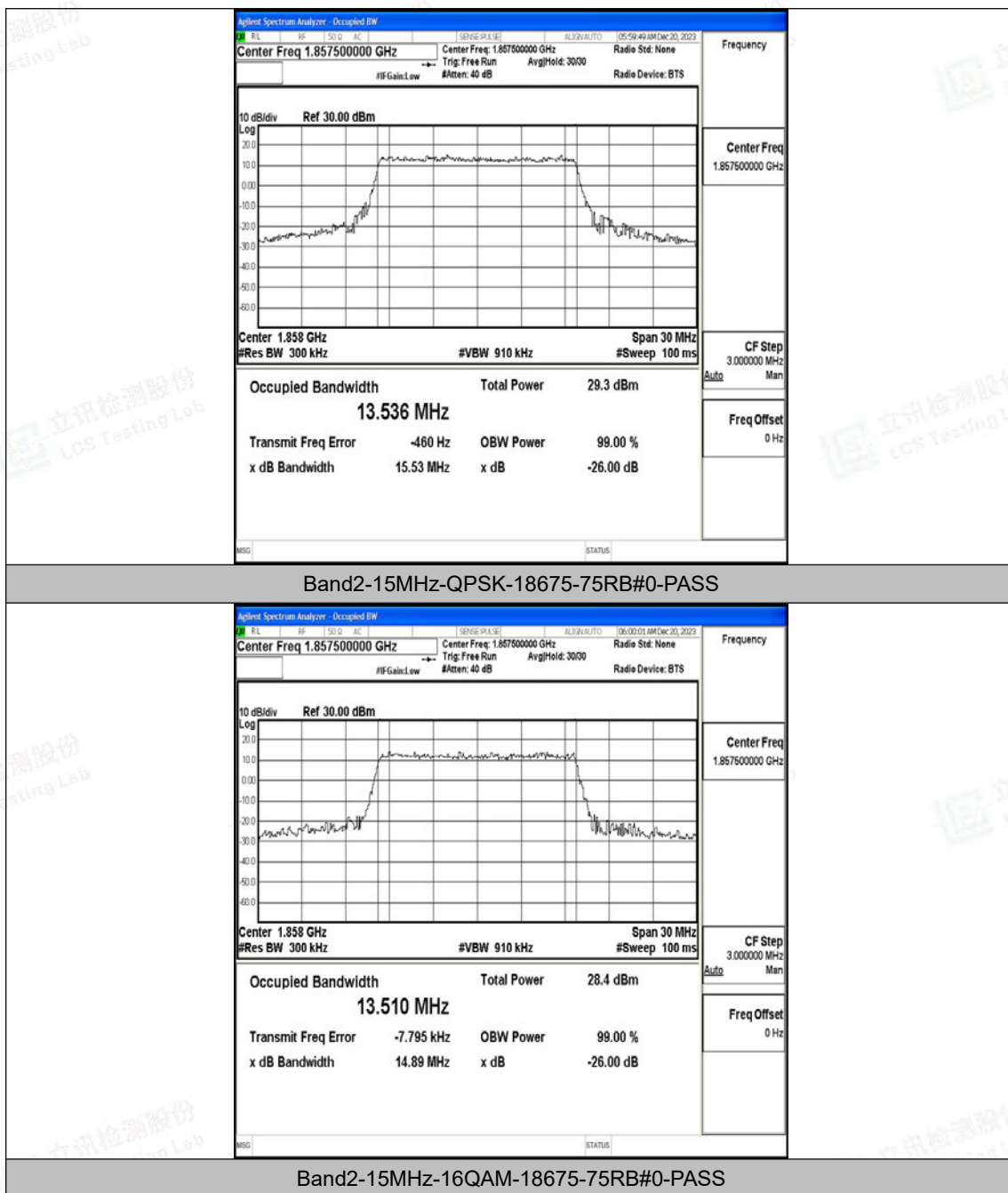


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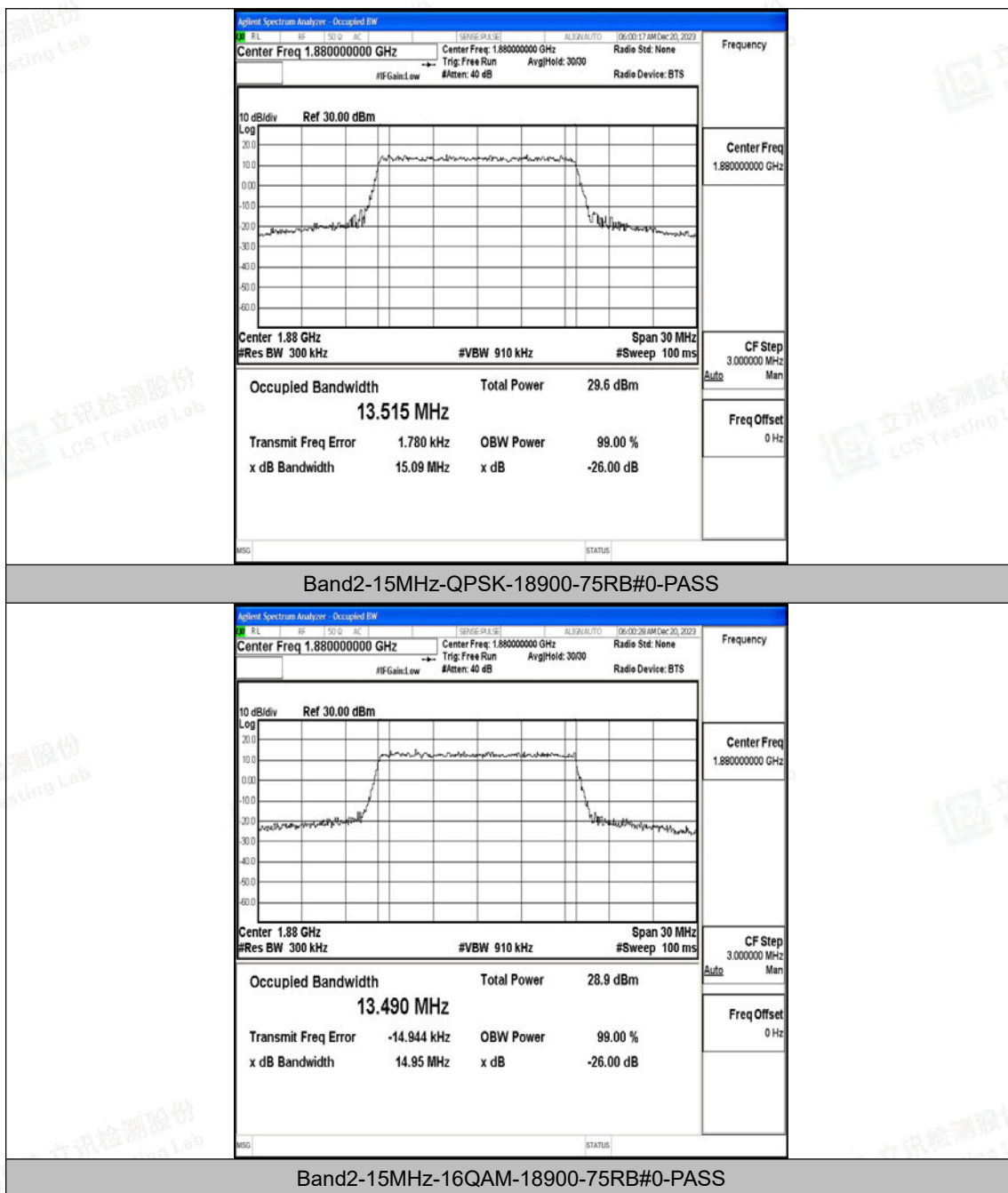


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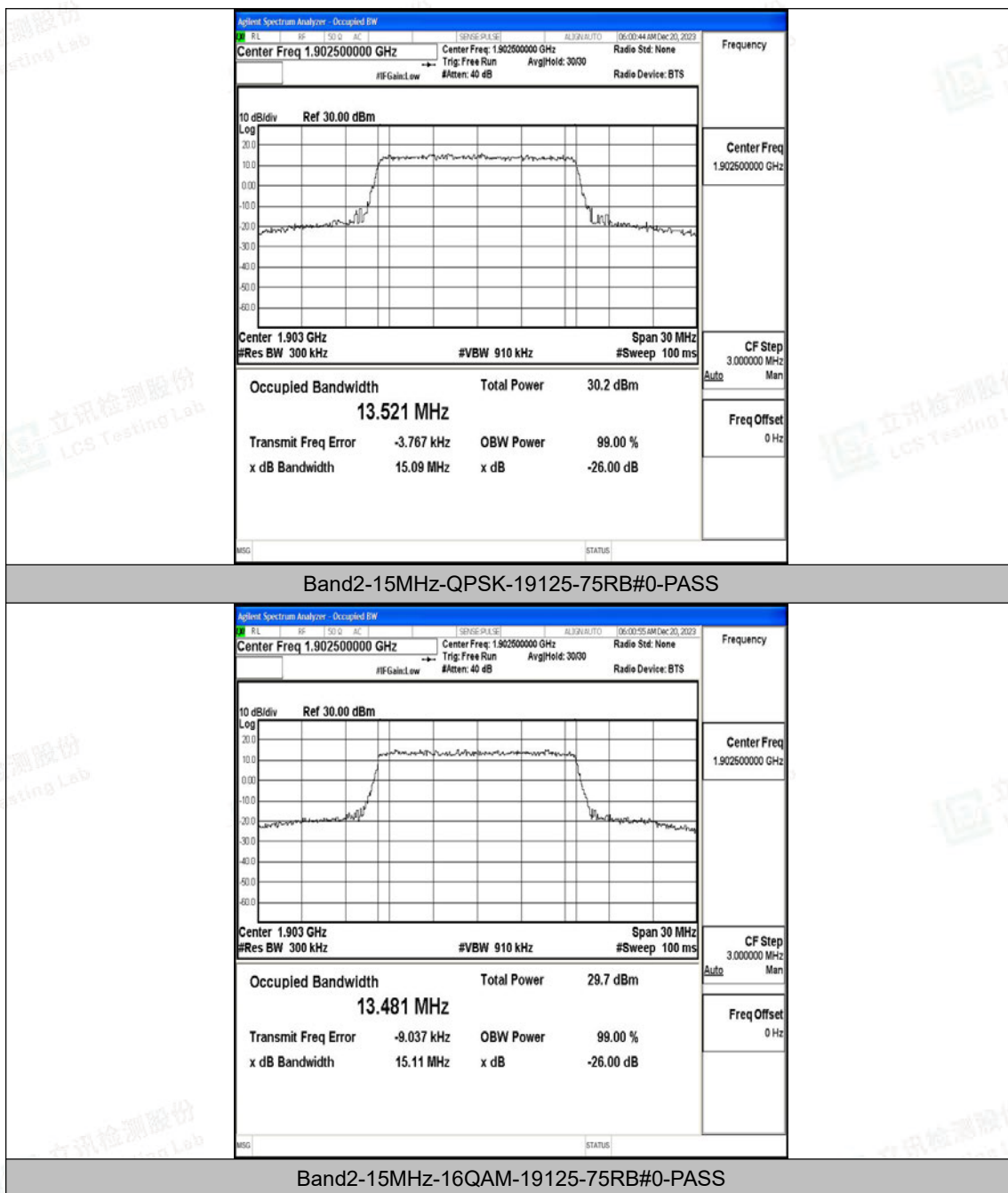


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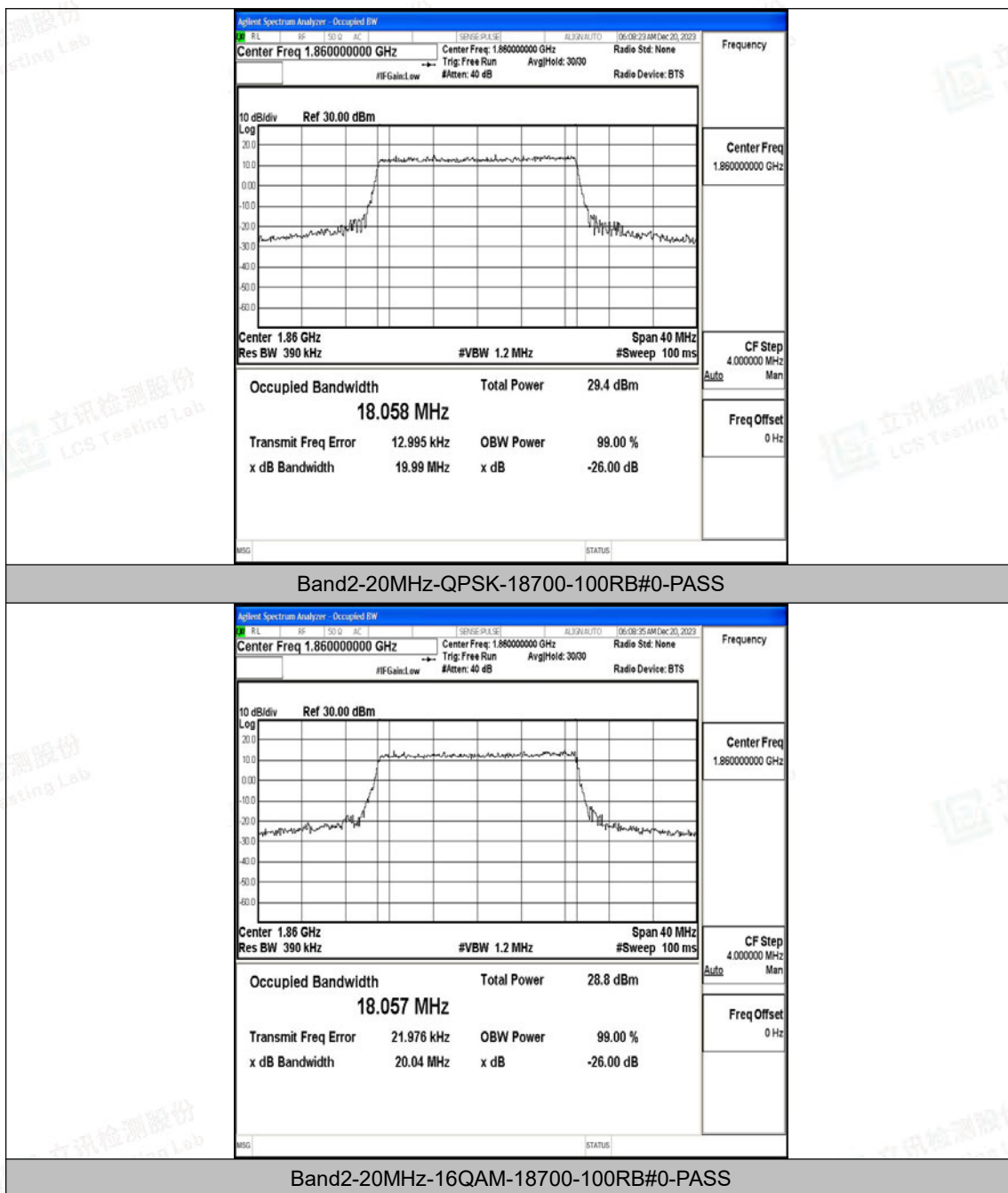


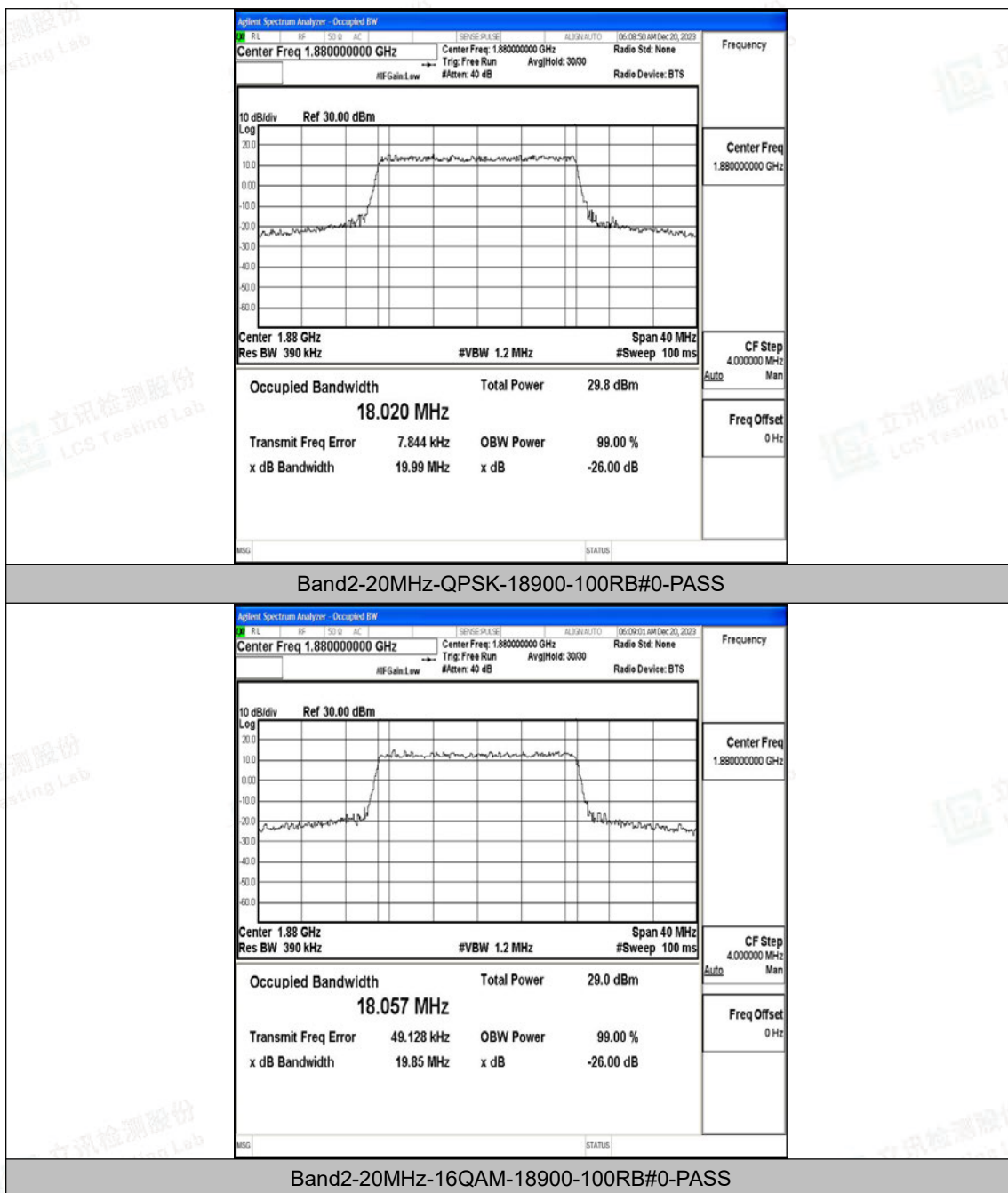
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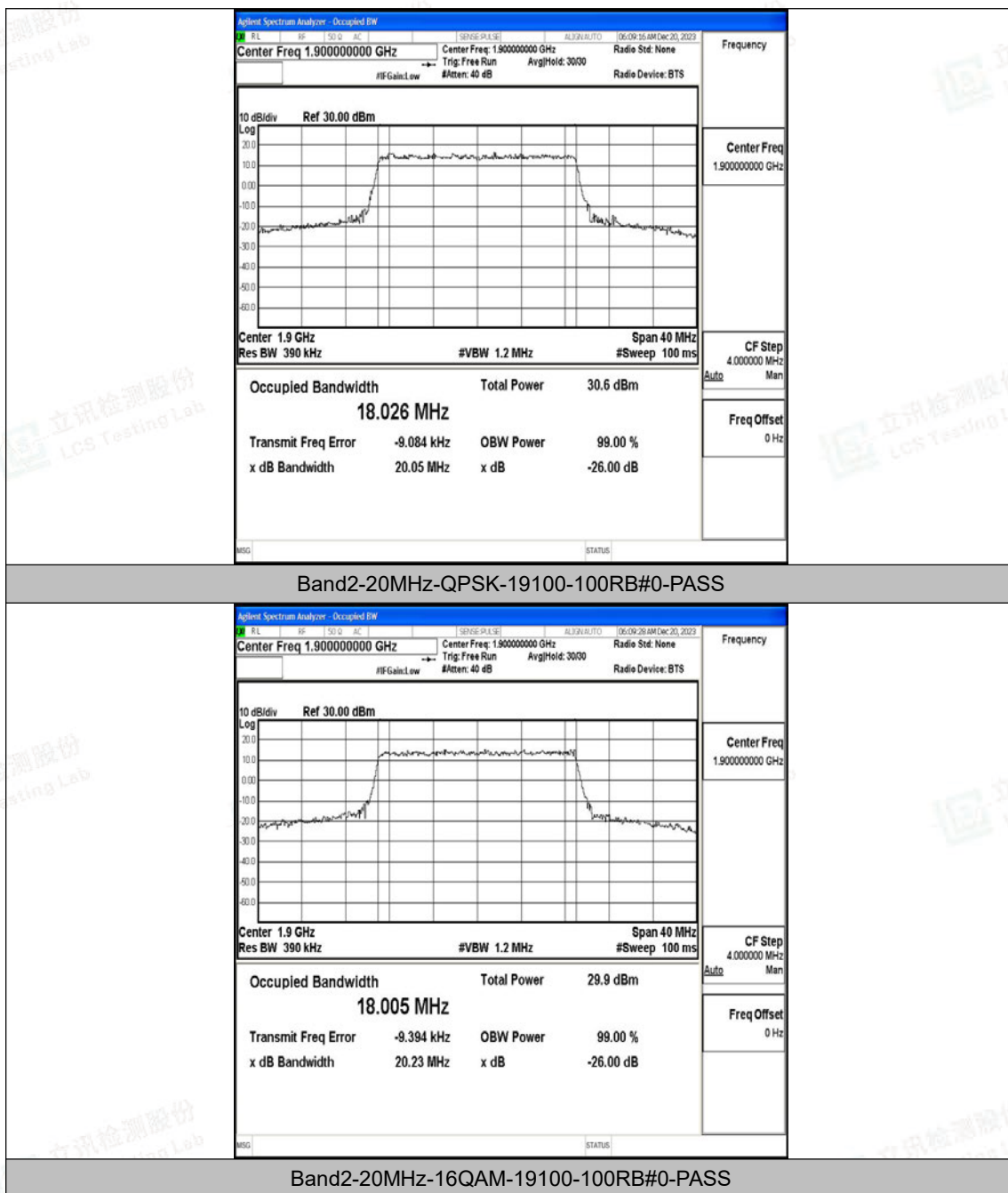


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A.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1849.96	-30.71	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1849.98	-30.94	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1910.12	-27.38	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1910.02	-28.71	PASS
Band2	3MHz	QPSK	18615	15RB#0	1849.99	-25.88	PASS
Band2	3MHz	16QAM	18615	15RB#0	1850.00	-27.72	PASS
Band2	3MHz	QPSK	19185	15RB#0	1910.01	-23.08	PASS
Band2	3MHz	16QAM	19185	15RB#0	1910.00	-24.46	PASS
Band2	5MHz	QPSK	18625	25RB#0	1849.99	-31.03	PASS
Band2	5MHz	16QAM	18625	25RB#0	1849.97	-32.37	PASS
Band2	5MHz	QPSK	19175	25RB#0	1910.01	-28.37	PASS
Band2	5MHz	16QAM	19175	25RB#0	1910.05	-29.09	PASS
Band2	10MHz	16QAM	18650	50RB#0	1849.91	-35.36	PASS
Band2	10MHz	QPSK	19150	50RB#0	1910.03	-29.66	PASS
Band2	10MHz	16QAM	19150	50RB#0	1910.05	-31.47	PASS
Band2	15MHz	QPSK	18675	75RB#0	1849.96	-32.63	PASS
Band2	15MHz	16QAM	18675	75RB#0	1849.98	-34.35	PASS
Band2	15MHz	QPSK	19125	75RB#0	1910.07	-28.83	PASS
Band2	15MHz	16QAM	19125	75RB#0	1910.02	-29.80	PASS
Band2	20MHz	QPSK	18700	100RB#0	1849.97	-33.19	PASS
Band2	20MHz	16QAM	18700	100RB#0	1849.80	-34.45	PASS
Band2	20MHz	QPSK	19100	100RB#0	1910.16	-28.73	PASS
Band2	20MHz	16QAM	19100	100RB#0	1910.10	-31.24	PASS
Band2	10MHz	QPSK	18650	50RB#0	1849.99	-34.10	PASS



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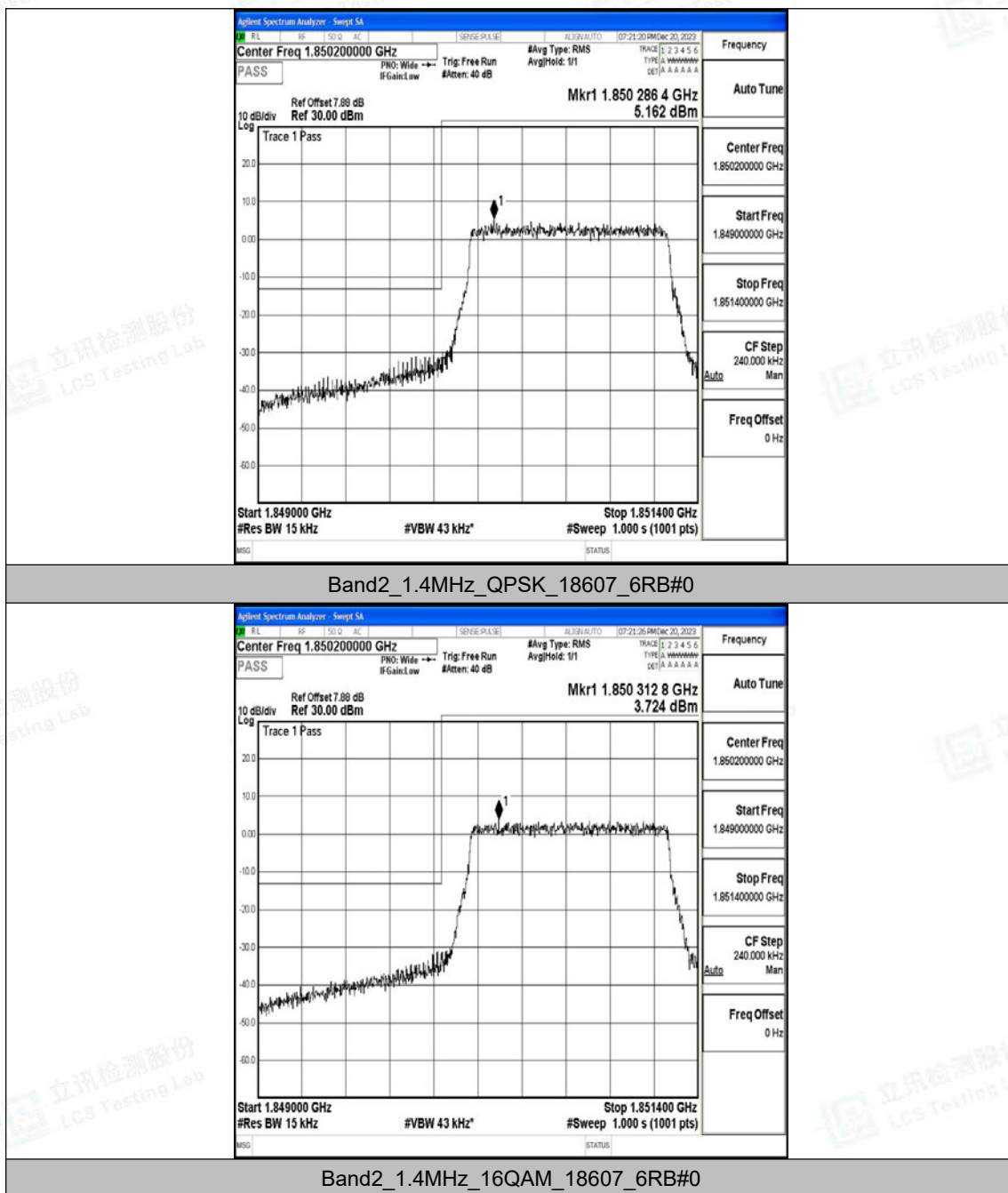
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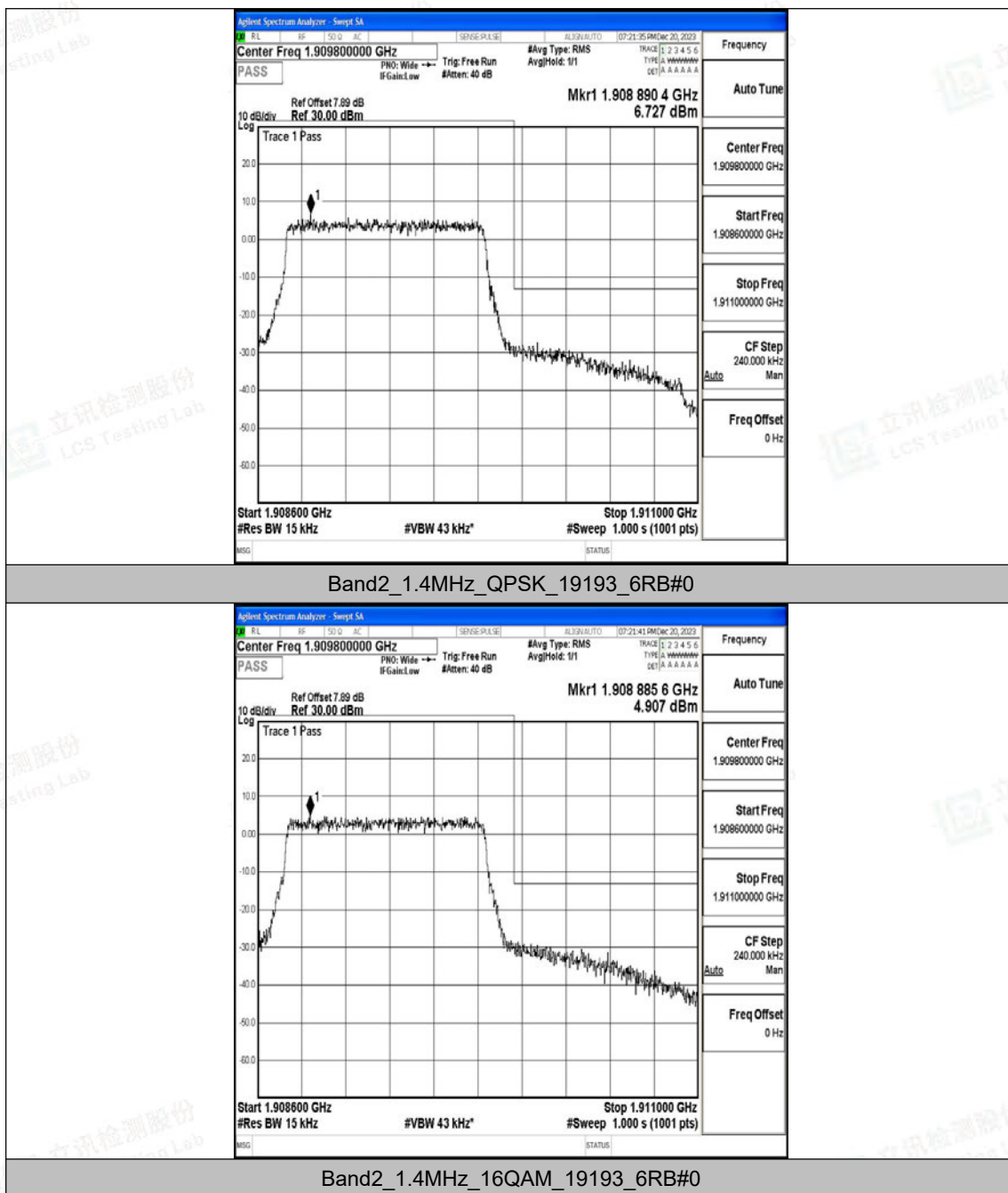
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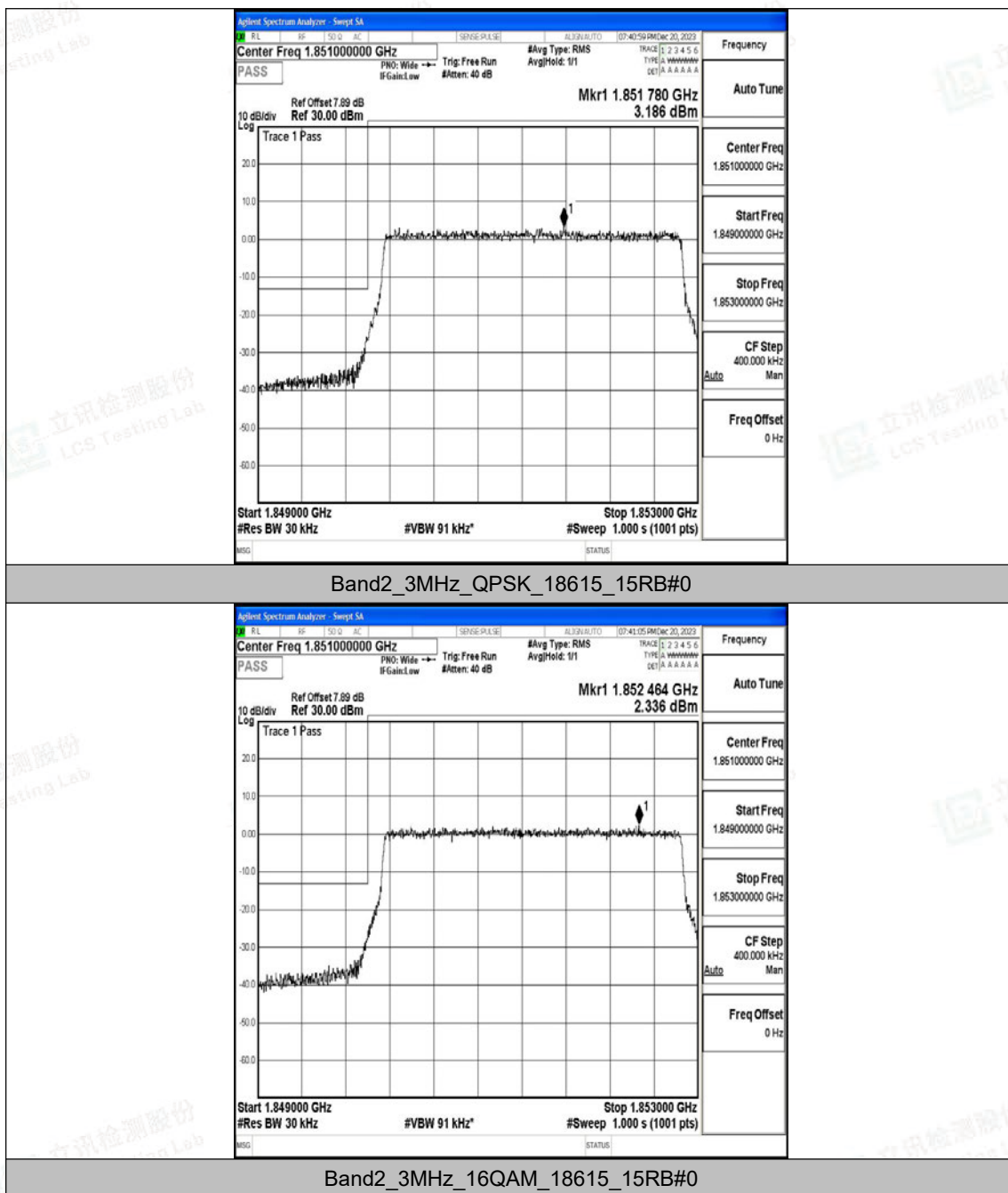
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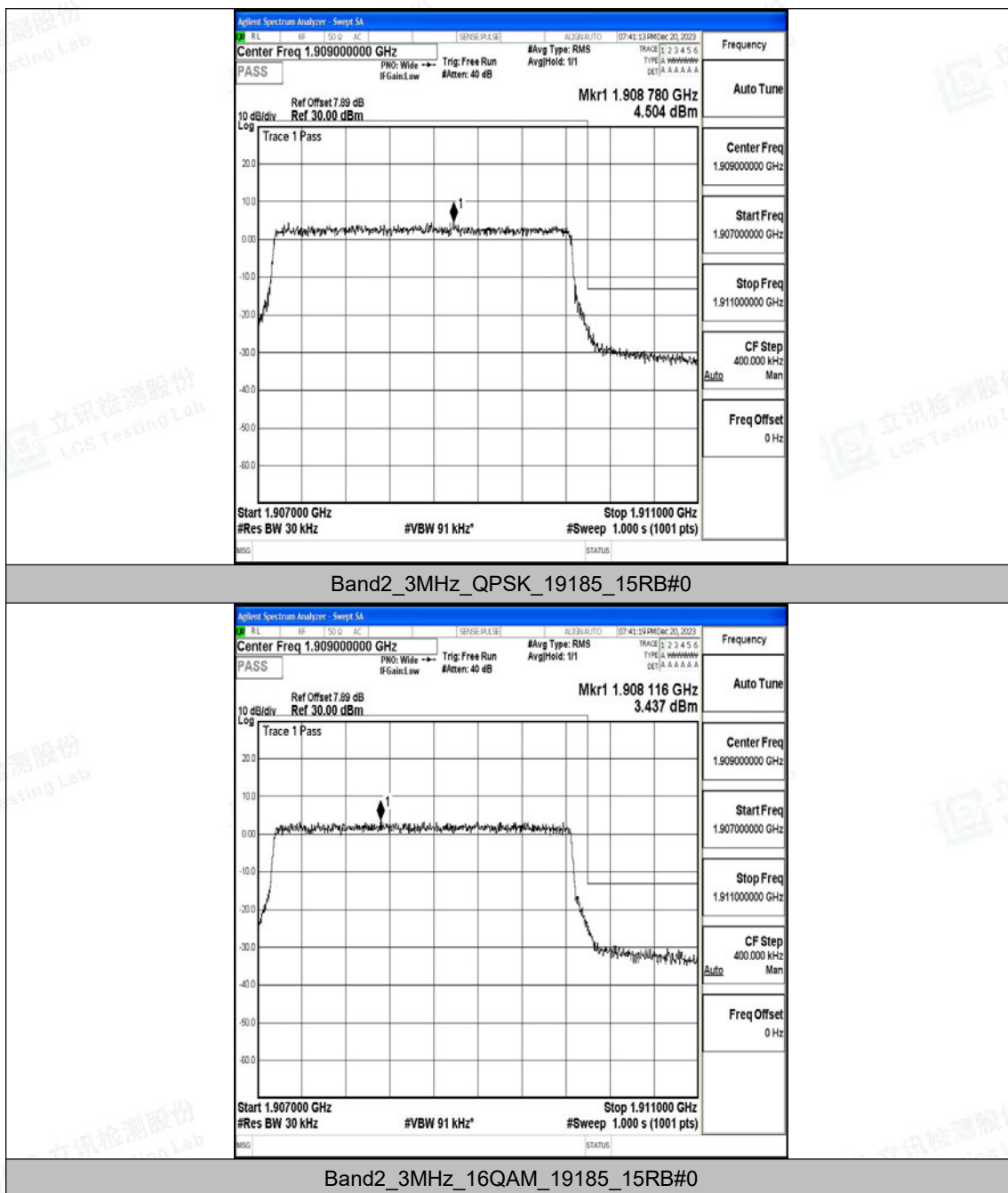


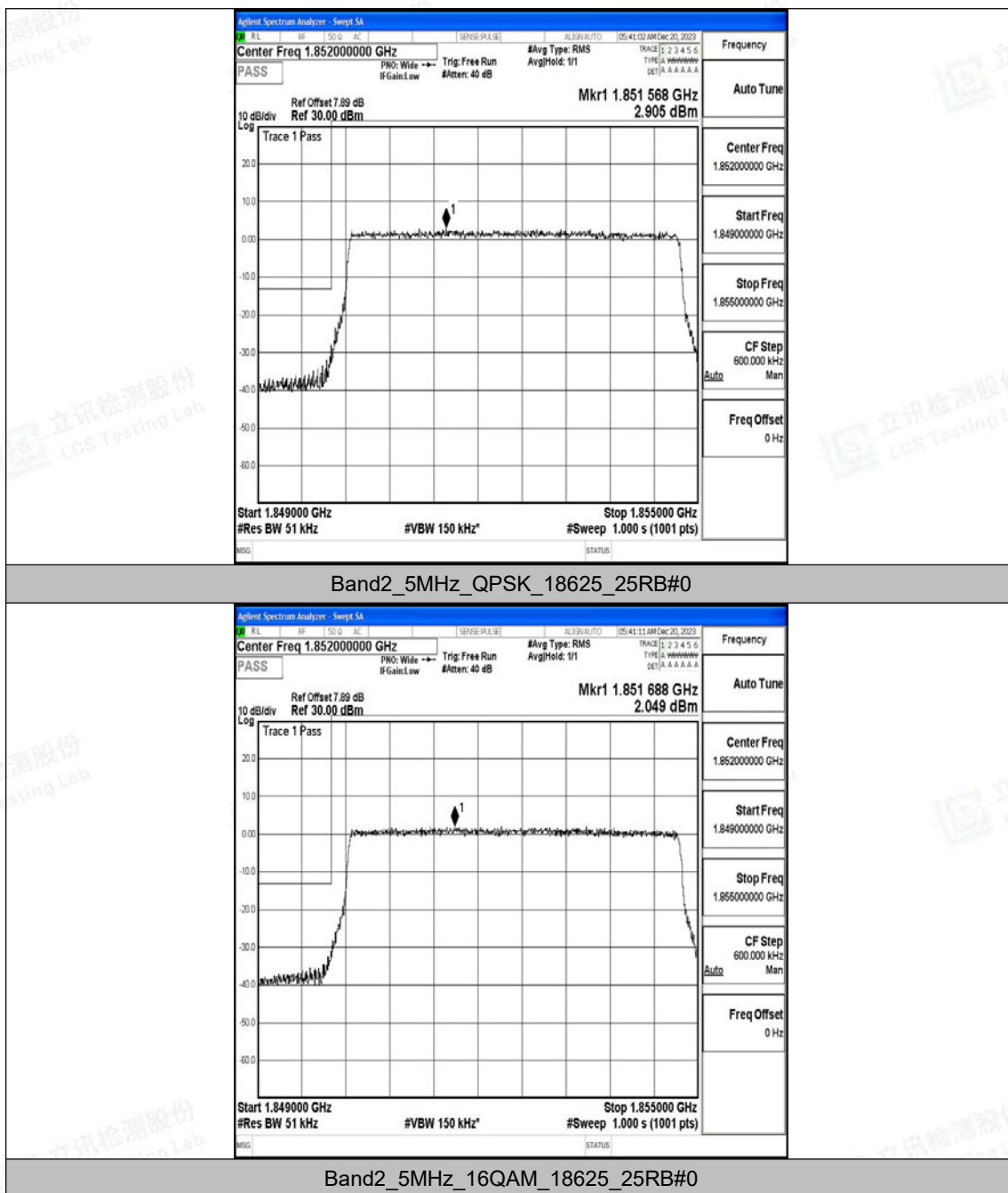
Test Graphs

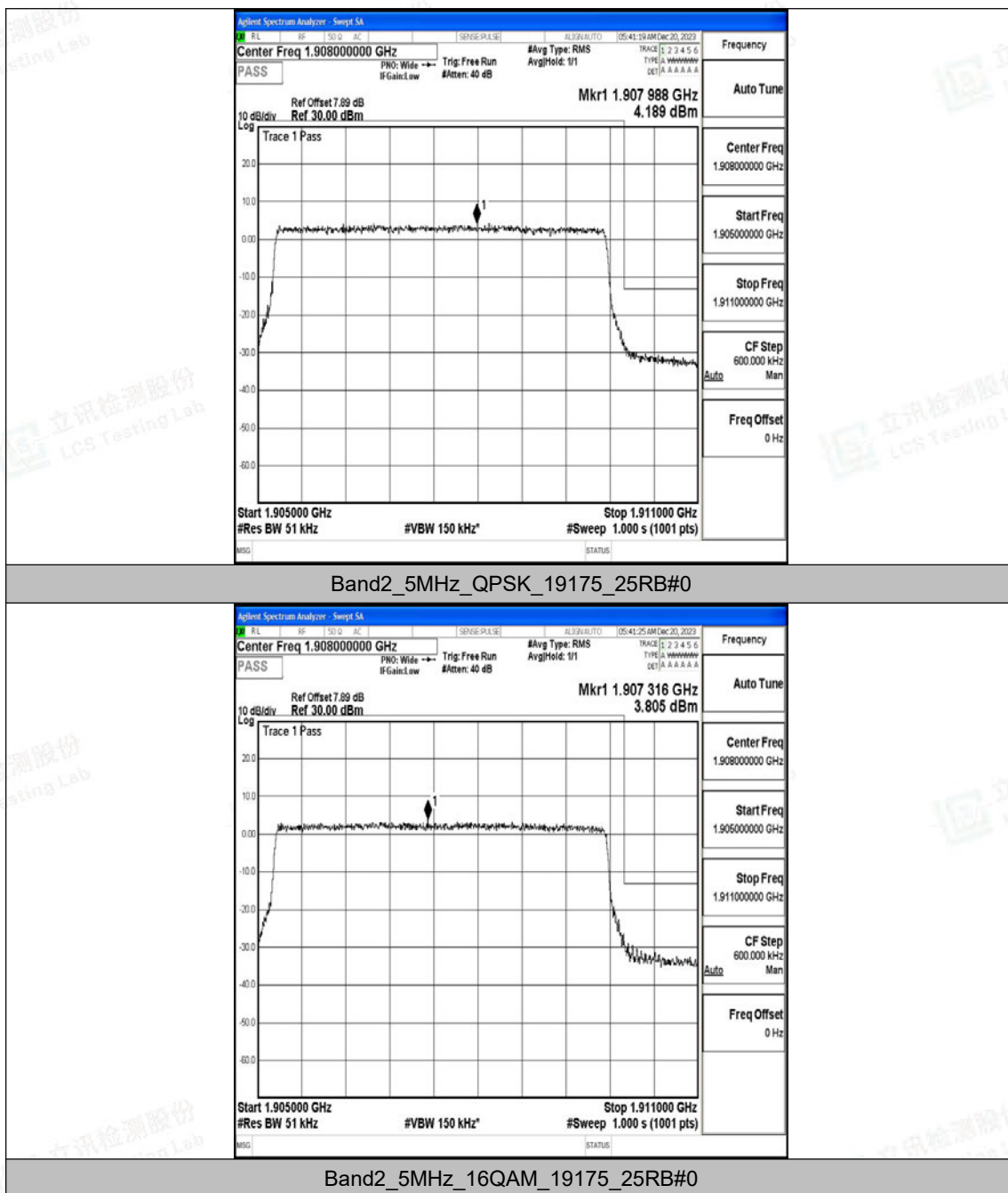


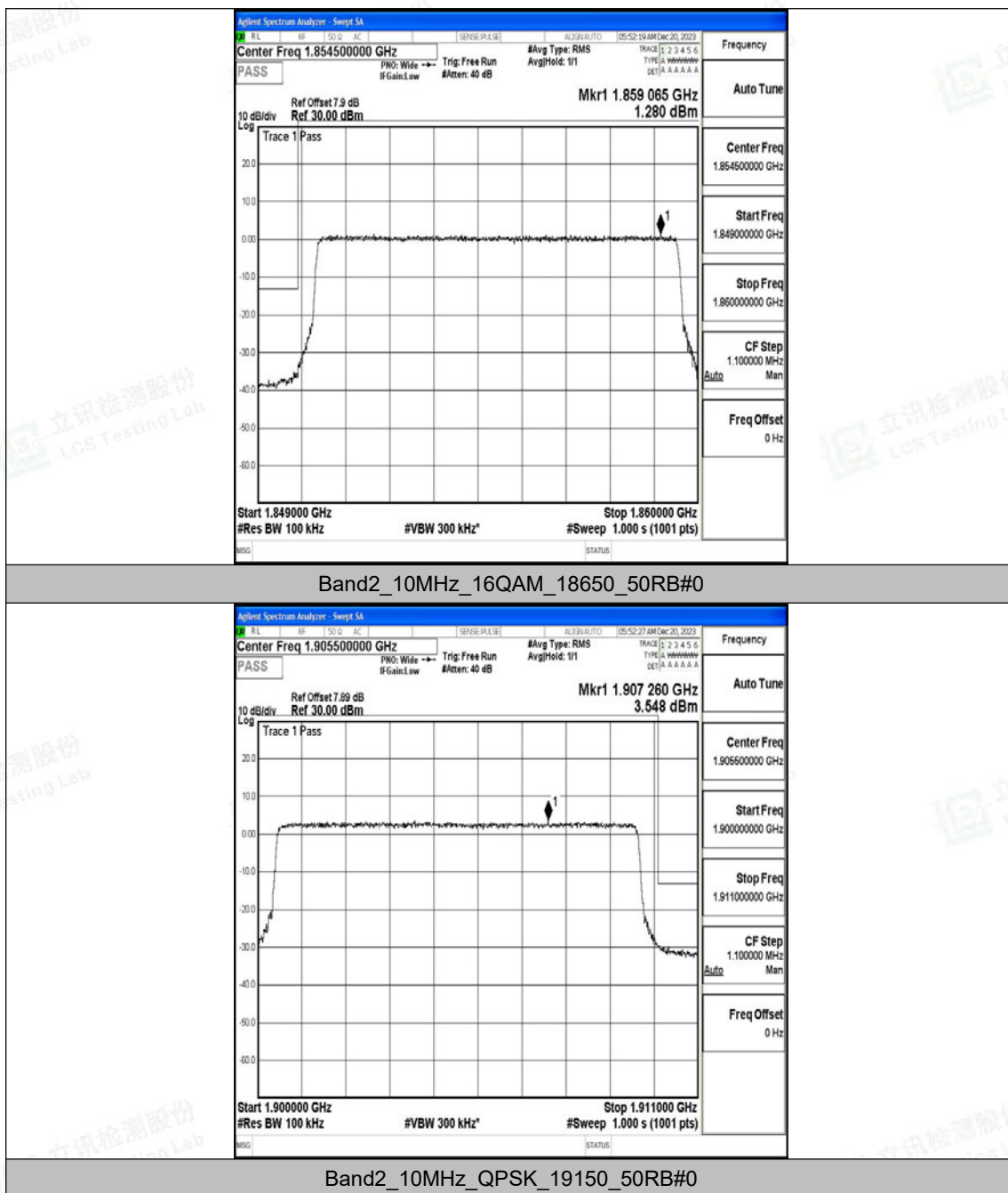


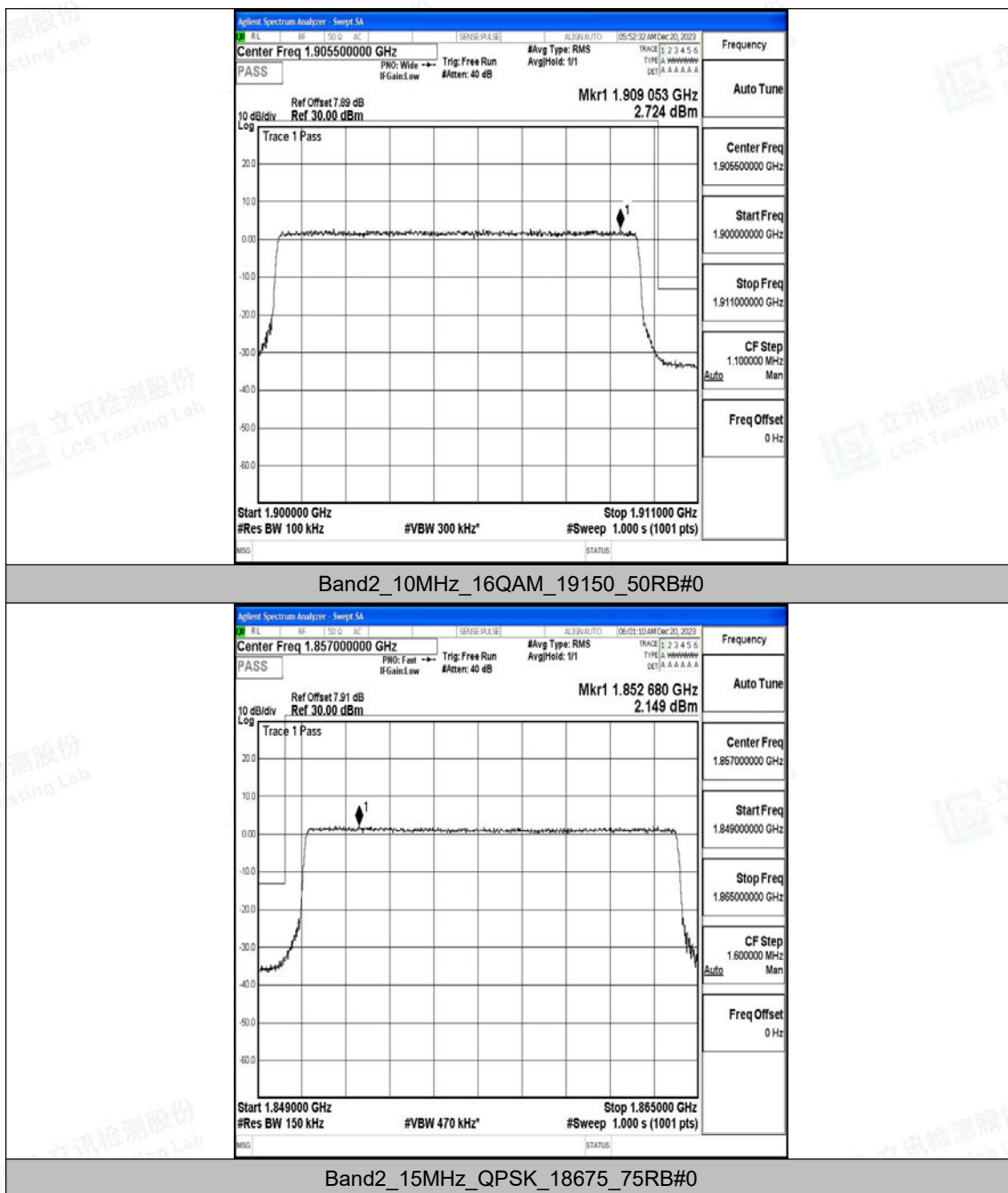


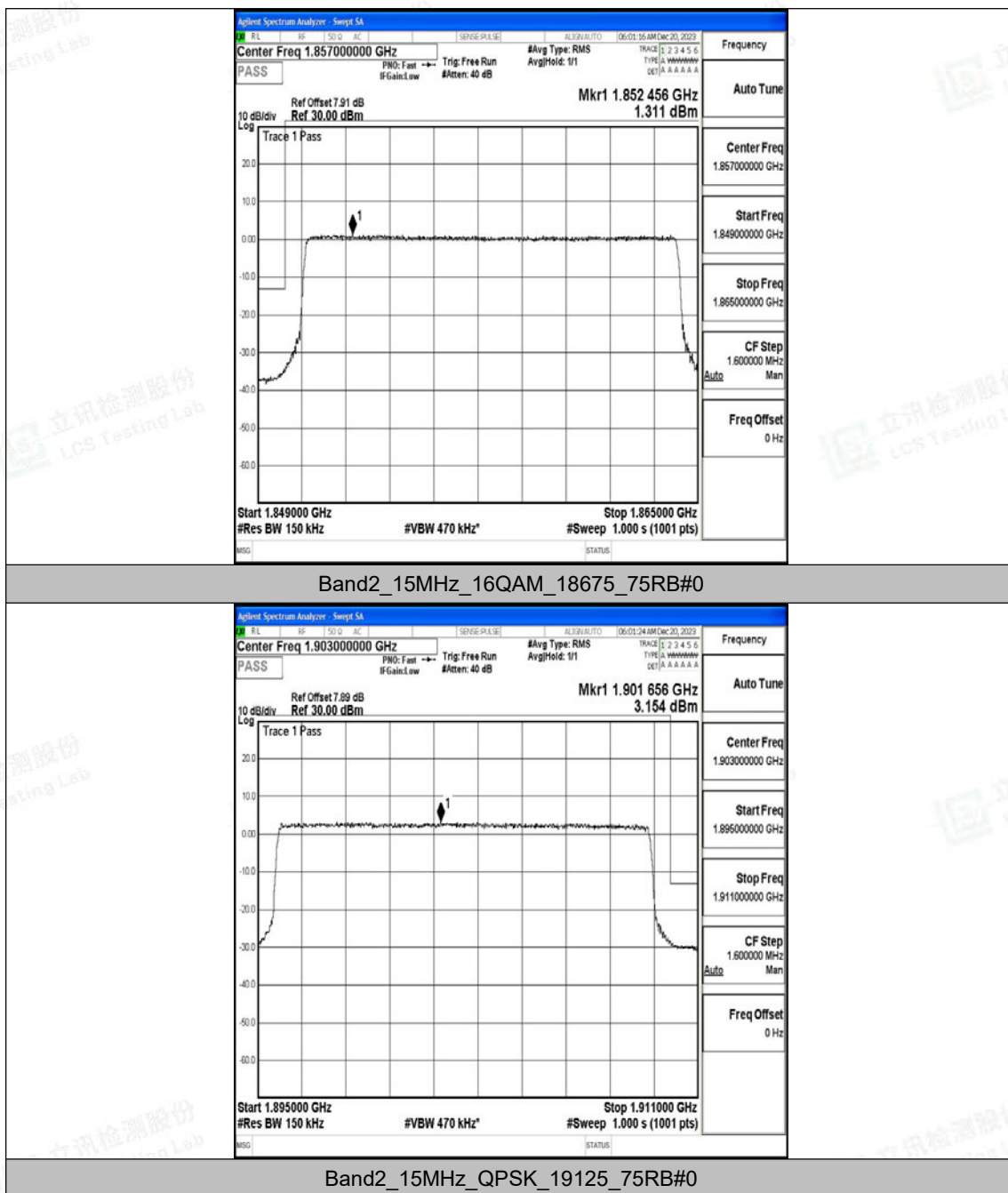


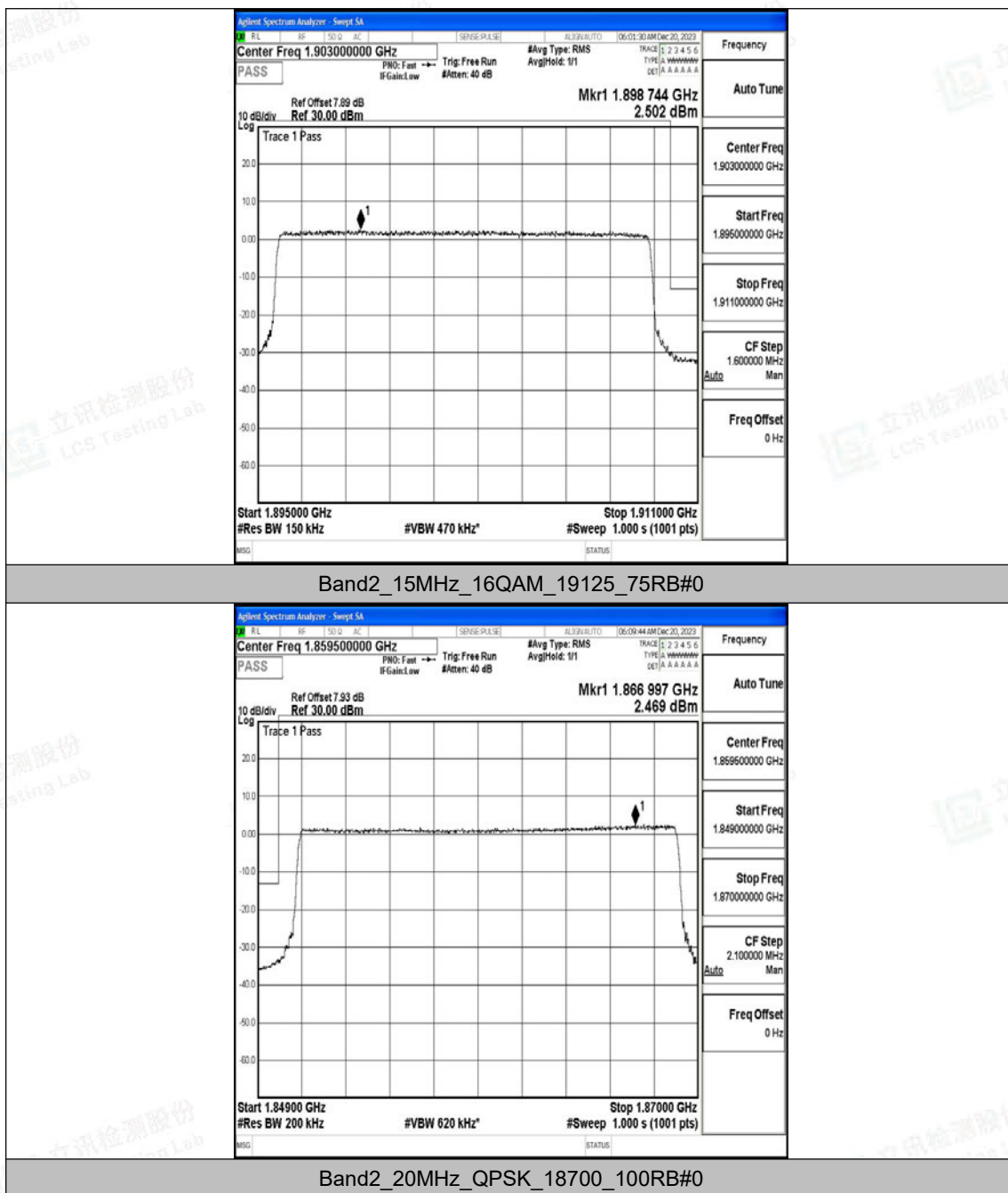


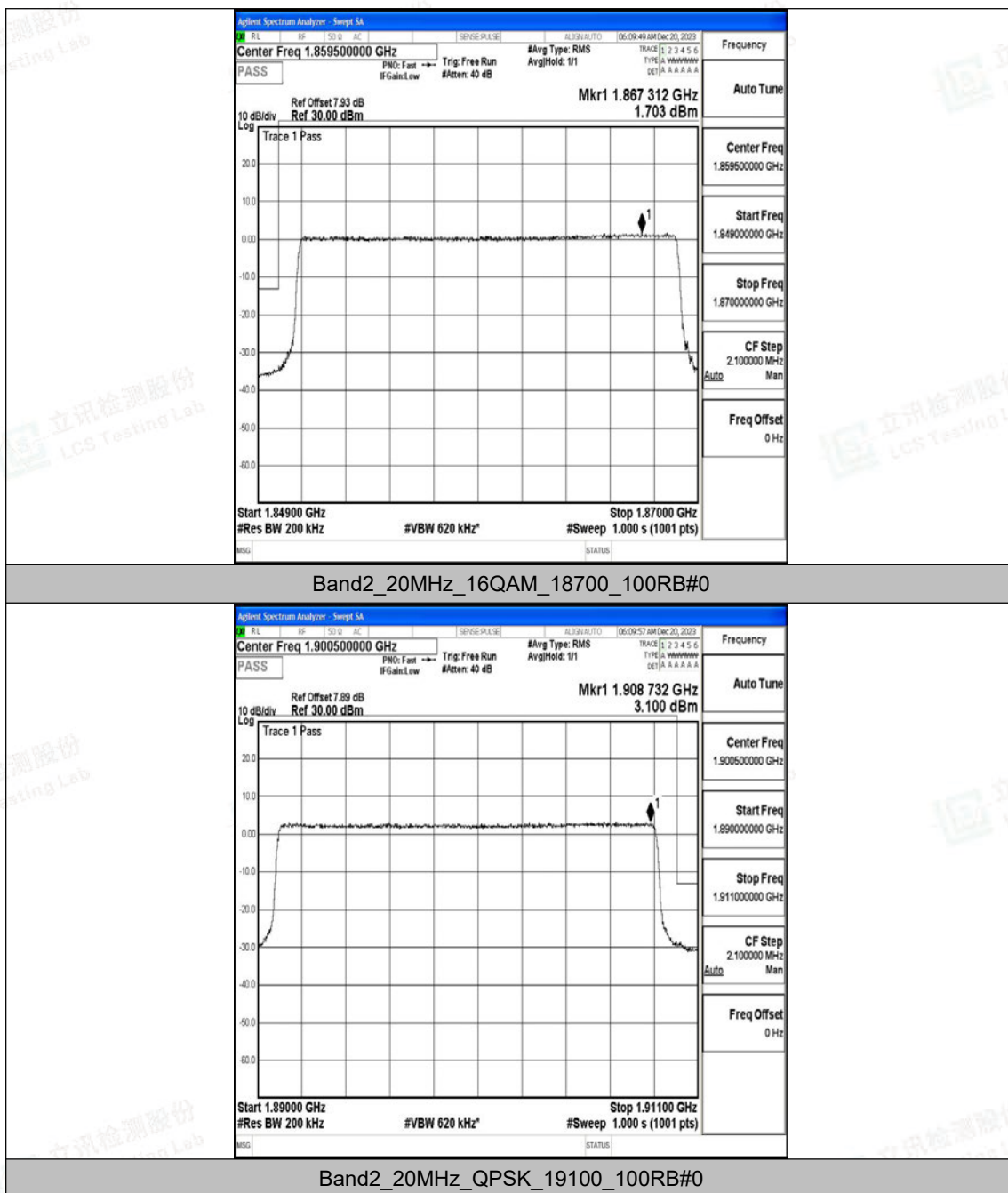


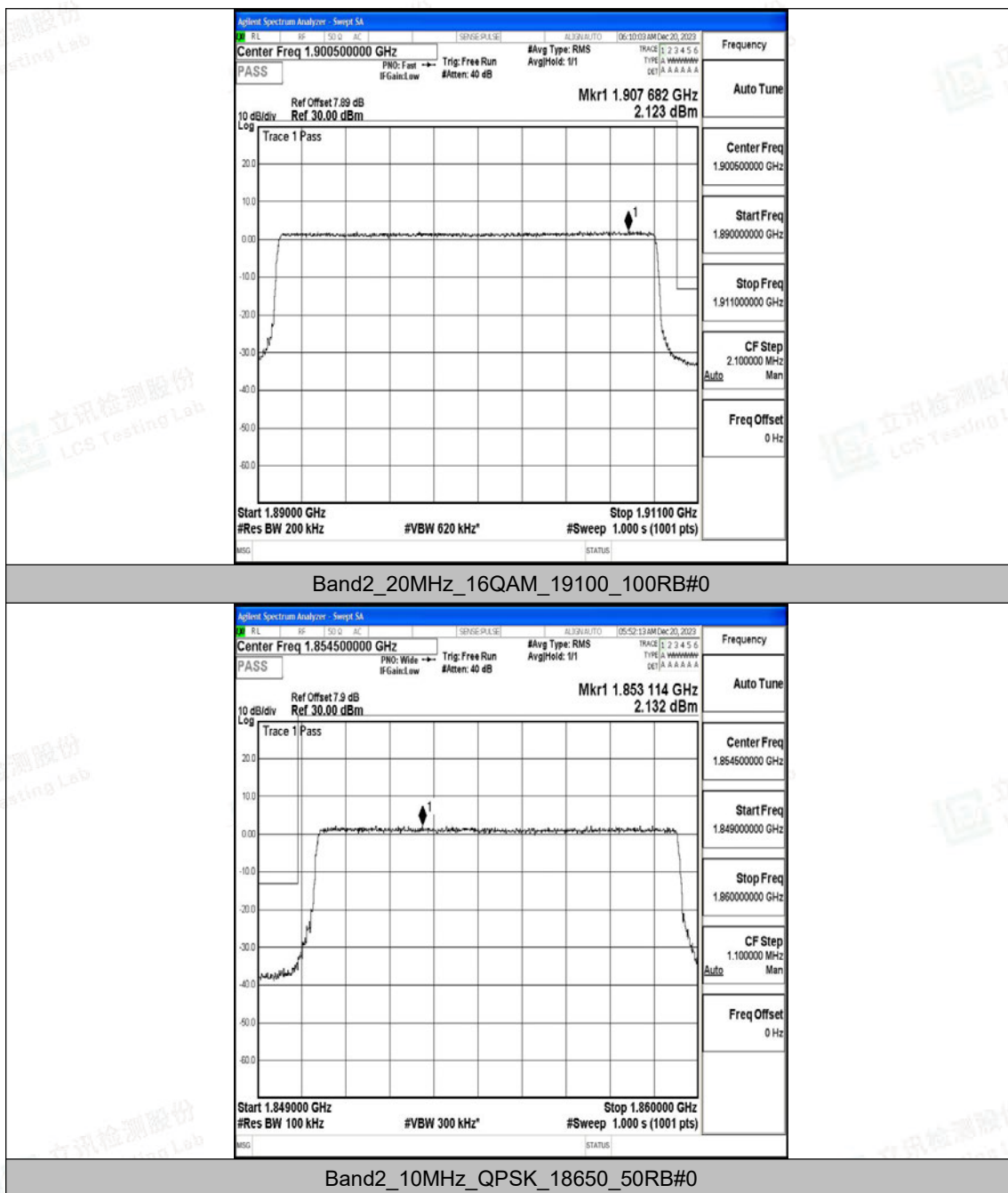












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A.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	0.009~0.15	-56.40	PASS
Band2	1.4MHz	QPSK	18607	1RB#0	0.15~30	-53.29	PASS
Band2	1.4MHz	QPSK	18607	1RB#0	30~1000	-62.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#0	1000~3000	-25.29	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	0.009~0.15	-56.86	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	0.15~30	-53.18	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	30~1000	-62.16	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	1000~3000	-25.69	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	3000~20000	-32.85	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	0.009~0.15	-56.34	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	0.15~30	-52.43	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	30~1000	-62.28	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	1000~3000	-23.68	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	3000~20000	-33.26	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	0.009~0.15	-57.98	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	0.15~30	-53.53	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	30~1000	-61.65	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	1000~3000	-20.64	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	3000~20000	-33.38	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	0.009~0.15	-57.24	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	0.15~30	-52.37	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	30~1000	-62.01	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	1000~3000	-18.64	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	3000~20000	-33.06	PASS
Band2	3MHz	QPSK	18615	1RB#0	30~1000	-62.10	PASS
Band2	3MHz	QPSK	18615	1RB#0	1000~3000	-29.32	PASS
Band2	3MHz	QPSK	18615	1RB#0	3000~20000	-32.93	PASS
Band2	3MHz	16QAM	18615	1RB#0	0.009~0.15	-58.99	PASS
Band2	3MHz	16QAM	18615	1RB#0	0.15~30	-53.41	PASS
Band2	3MHz	16QAM	18615	1RB#0	30~1000	-62.16	PASS
Band2	3MHz	16QAM	18615	1RB#0	1000~3000	-32.49	PASS
Band2	3MHz	16QAM	18615	1RB#0	3000~20000	-32.89	PASS
Band2	3MHz	QPSK	18900	1RB#0	0.009~0.15	-58.04	PASS
Band2	3MHz	QPSK	18900	1RB#0	0.15~30	-53.10	PASS
Band2	3MHz	QPSK	18900	1RB#0	30~1000	-62.42	PASS



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