



Appendix H: Test Data for E-UTRA Band 5

Product Name: Smart POS

Test Model: WIZARPOS Q3

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.72	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.64	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.14	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.74	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.03	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.17	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.08	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.19	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.18	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.57	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.19	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.71	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.36	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.21	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.25	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.97	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.91	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.08	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.15	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.96	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.20	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.64	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.25	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.62	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.05	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.55	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.84	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.99	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.38	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.97	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.99	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.58	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.76	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.00	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.26	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.67	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.74	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.22	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.27	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.87	PASS
Band5	3MHz	QPSK	20415	1RB#0	25.03	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.84	PASS
Band5	3MHz	QPSK	20415	1RB#8	25.01	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.83	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.93	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.80	PASS
Band5	3MHz	QPSK	20415	8RB#0	24.02	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.89	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.99	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.89	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.97	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.90	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.92	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.85	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.01	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.62	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.97	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.58	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.95	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.57	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.92	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.81	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.88	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.80	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.84	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.78	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.85	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.69	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.98	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.56	PASS
Band5	3MHz	QPSK	20635	1RB#8	25.03	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.60	PASS
Band5	3MHz	QPSK	20635	1RB#14	25.03	PASS



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Band5	3MHz	16QAM	20635	1RB#14	23.61	PASS
Band5	3MHz	QPSK	20635	8RB#0	24.09	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.83	PASS
Band5	3MHz	QPSK	20635	8RB#4	24.04	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.88	PASS
Band5	3MHz	QPSK	20635	8RB#7	24.04	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.80	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.89	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.69	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.97	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.73	PASS
Band5	5MHz	QPSK	20425	1RB#12	25.05	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.80	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.89	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.69	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.88	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.81	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.85	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.76	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.81	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.77	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.82	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.82	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.81	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.70	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.96	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.83	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.81	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.70	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.83	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.85	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.83	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.82	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.77	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.79	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.81	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.77	PASS
Band5	5MHz	QPSK	20625	1RB#0	24.87	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.65	PASS
Band5	5MHz	QPSK	20625	1RB#12	25.19	PASS



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Band5	5MHz	16QAM	20625	1RB#12	23.73	PASS
Band5	5MHz	QPSK	20625	1RB#24	25.09	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.59	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.91	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.84	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.97	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.88	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.78	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.71	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.84	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.83	PASS
Band5	10MHz	QPSK	20450	1RB#0	25.03	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.86	PASS
Band5	10MHz	QPSK	20450	1RB#24	25.12	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.91	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.84	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.70	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.88	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.86	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.87	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.88	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.84	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.77	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.84	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.84	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.98	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.56	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.10	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.65	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.90	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.59	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.83	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.85	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.85	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.83	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.85	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.86	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.82	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.81	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.81	PASS



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Band5	10MHz	16QAM	20600	1RB#0	23.48	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.95	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.65	PASS
Band5	10MHz	QPSK	20600	1RB#49	25.01	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.53	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.87	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.89	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.87	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.86	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.77	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.77	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.78	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.79	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	2.34	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	3.63	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	3.88	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	4.81	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	2.65	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	3.86	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.19	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.10	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	2.30	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.55	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	3.81	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	4.73	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	2.30	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	3.42	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	4.10	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	4.96	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	2.64	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	3.82	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.34	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.20	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	2.36	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	3.61	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	3.95	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	4.88	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	2.48	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	3.55	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.72	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.46	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	2.75	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	3.70	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.82	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.55	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	2.68	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	3.72	13	PASS



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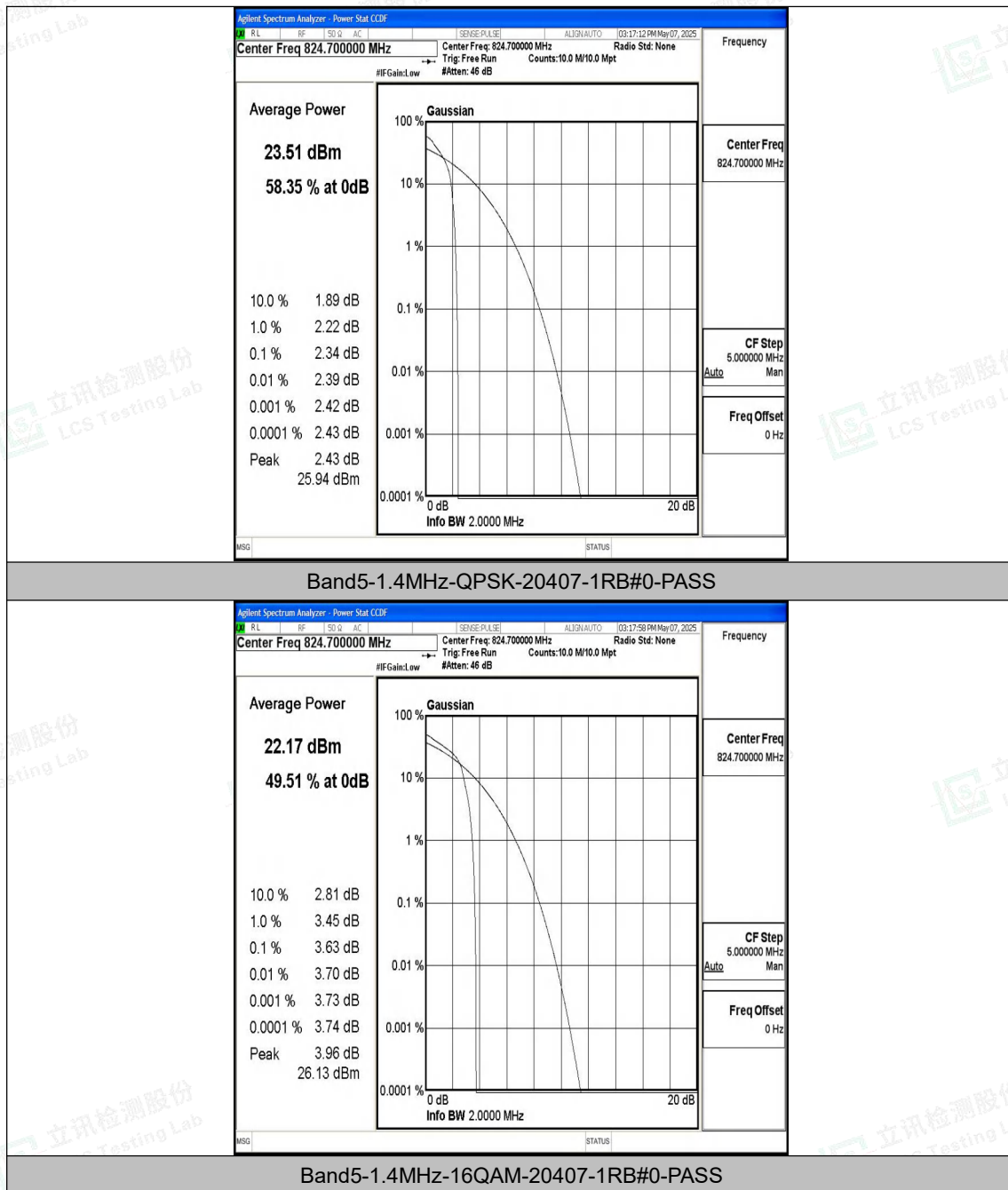


Band5	5MHz	QPSK	20625	25RB#0	4.66	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.42	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	2.39	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	3.48	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.50	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	2.57	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	3.77	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.81	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.60	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	2.81	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	3.99	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.73	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.56	13	PASS





Test Graphs

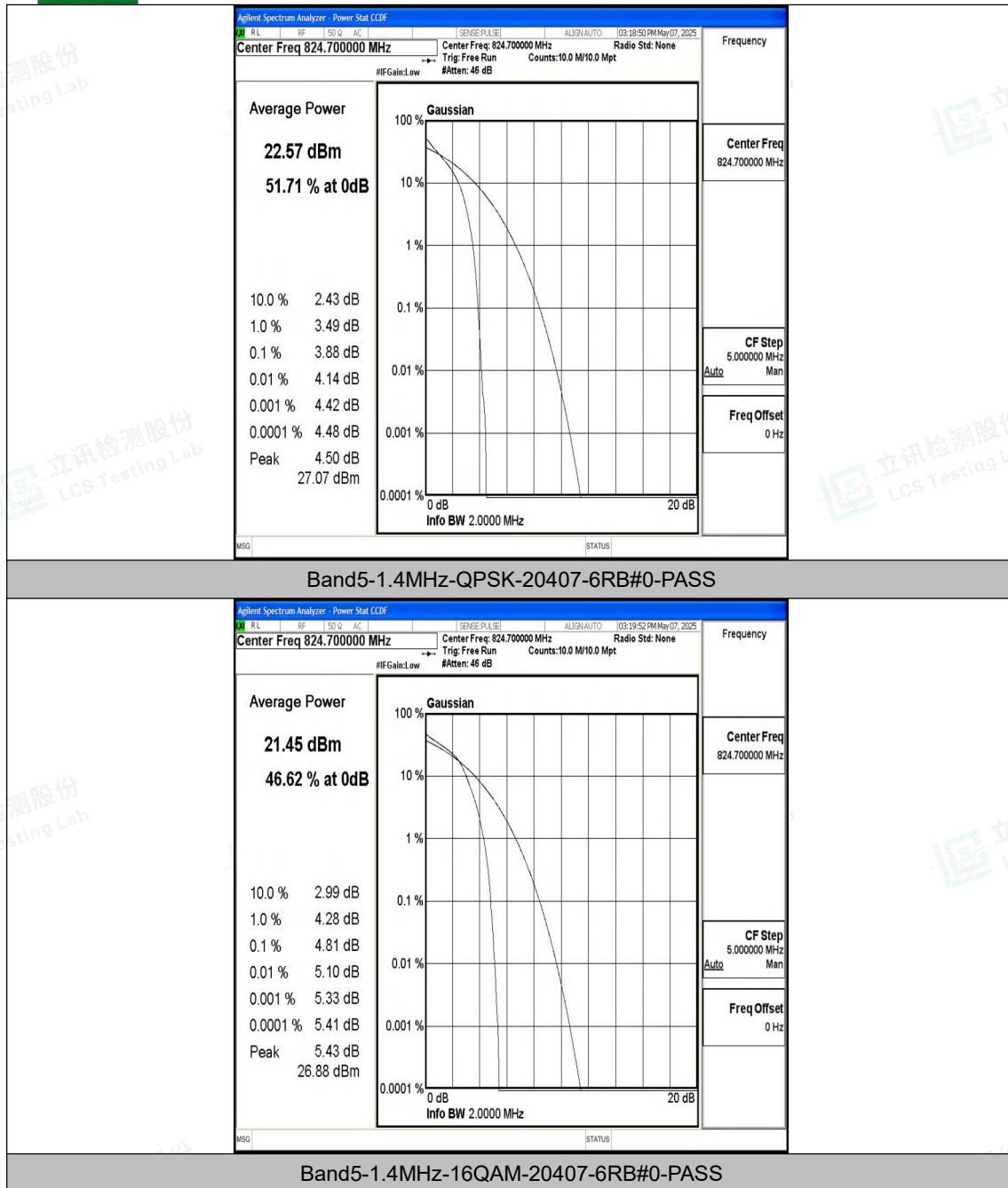


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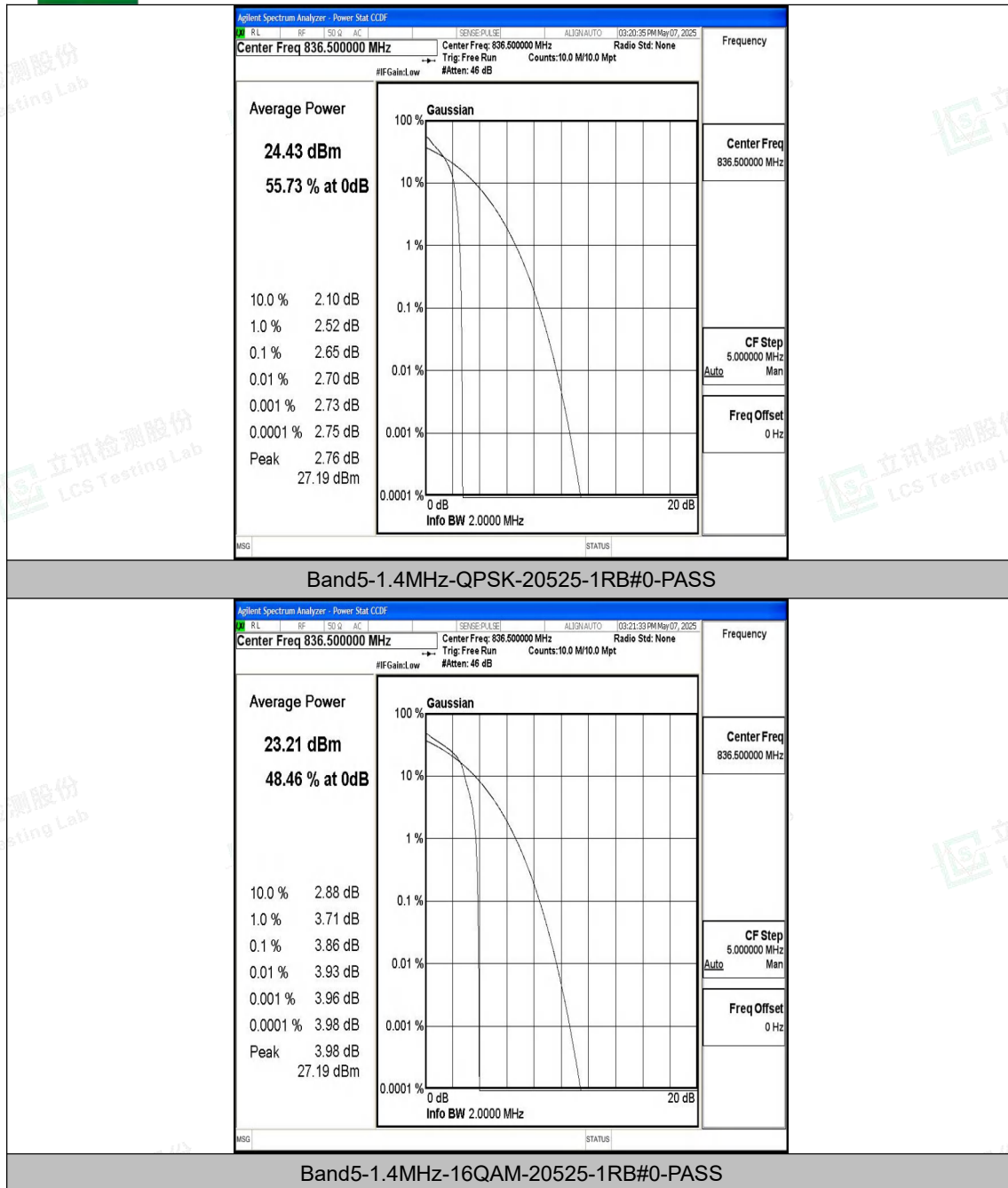


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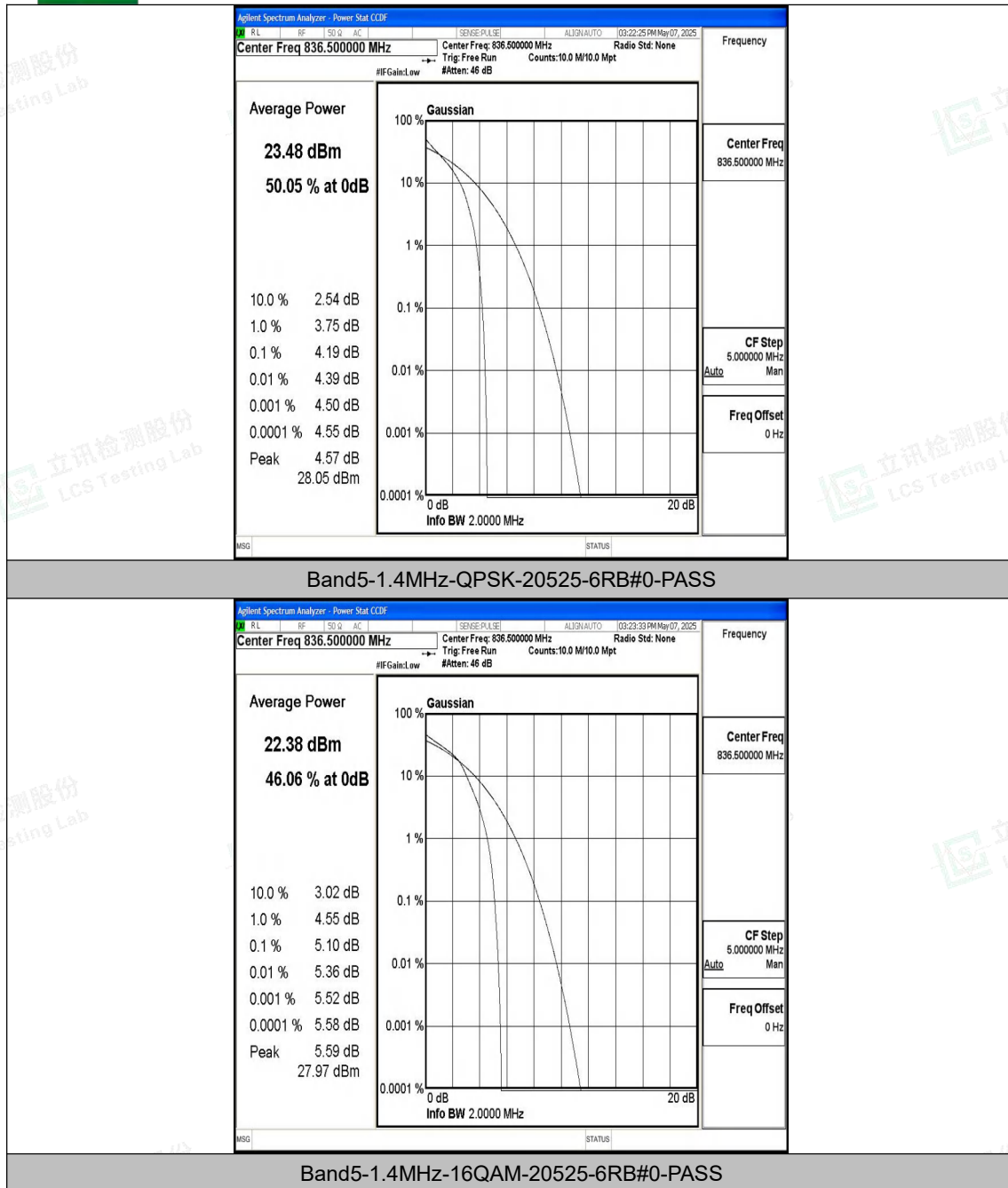


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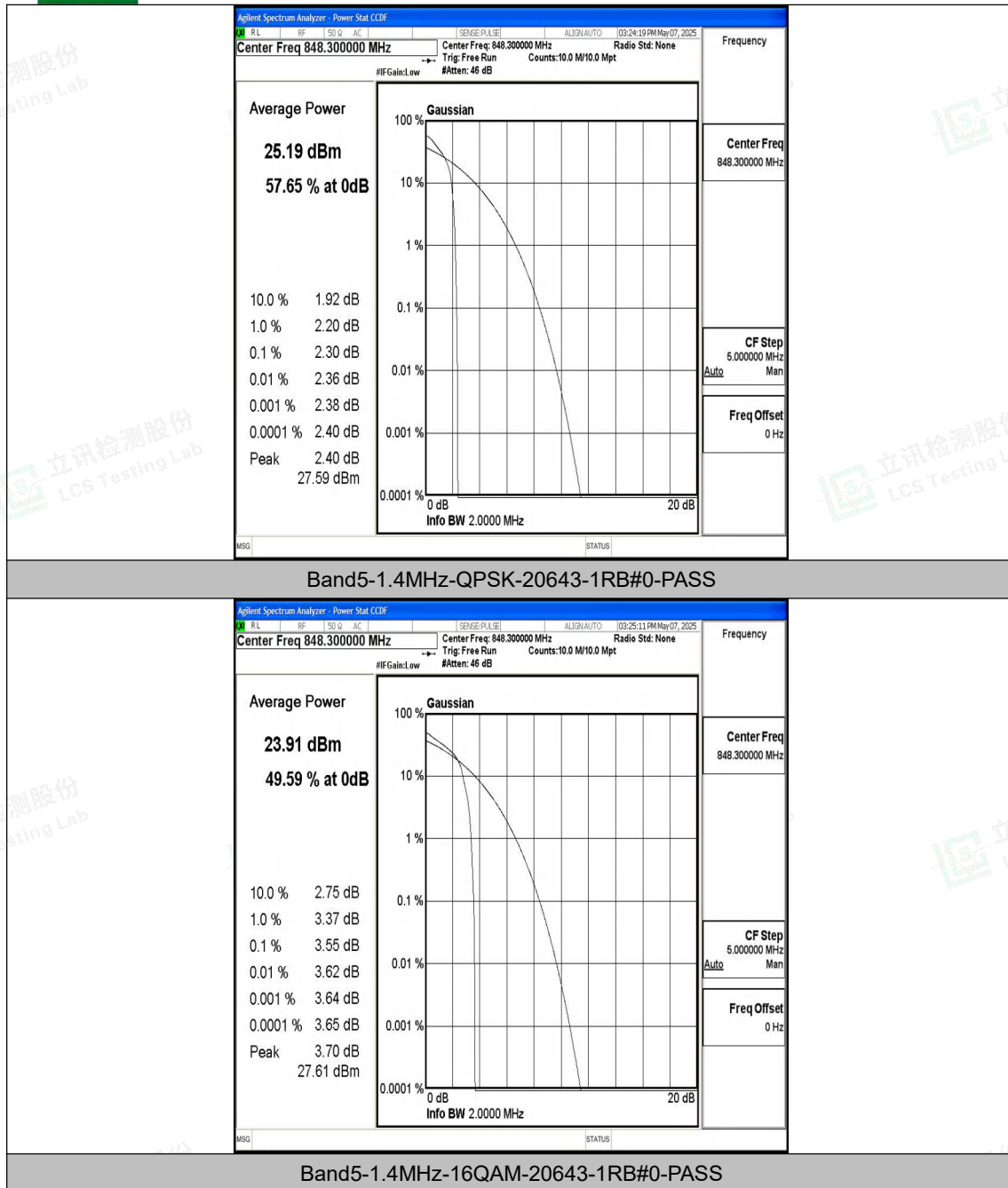


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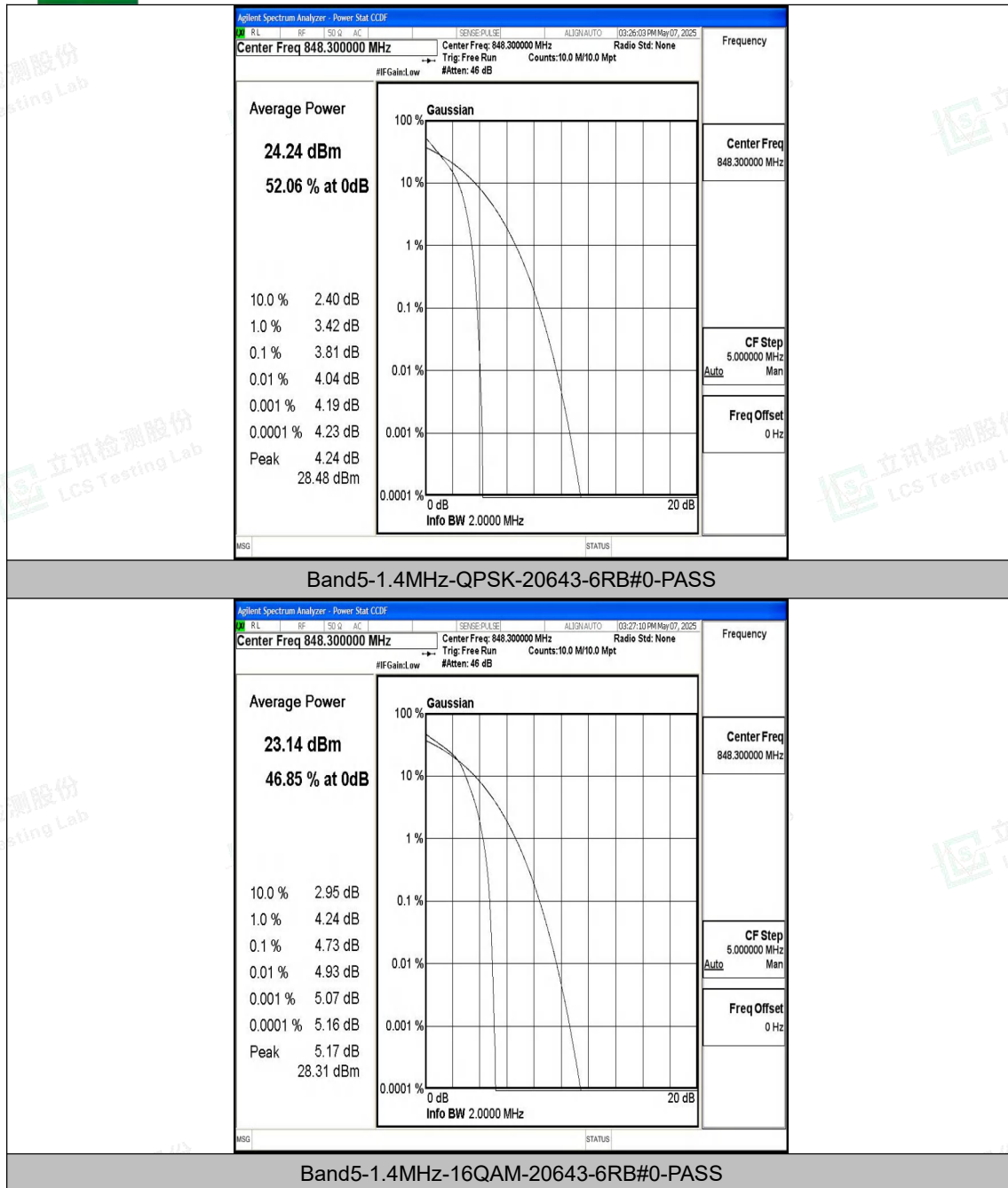


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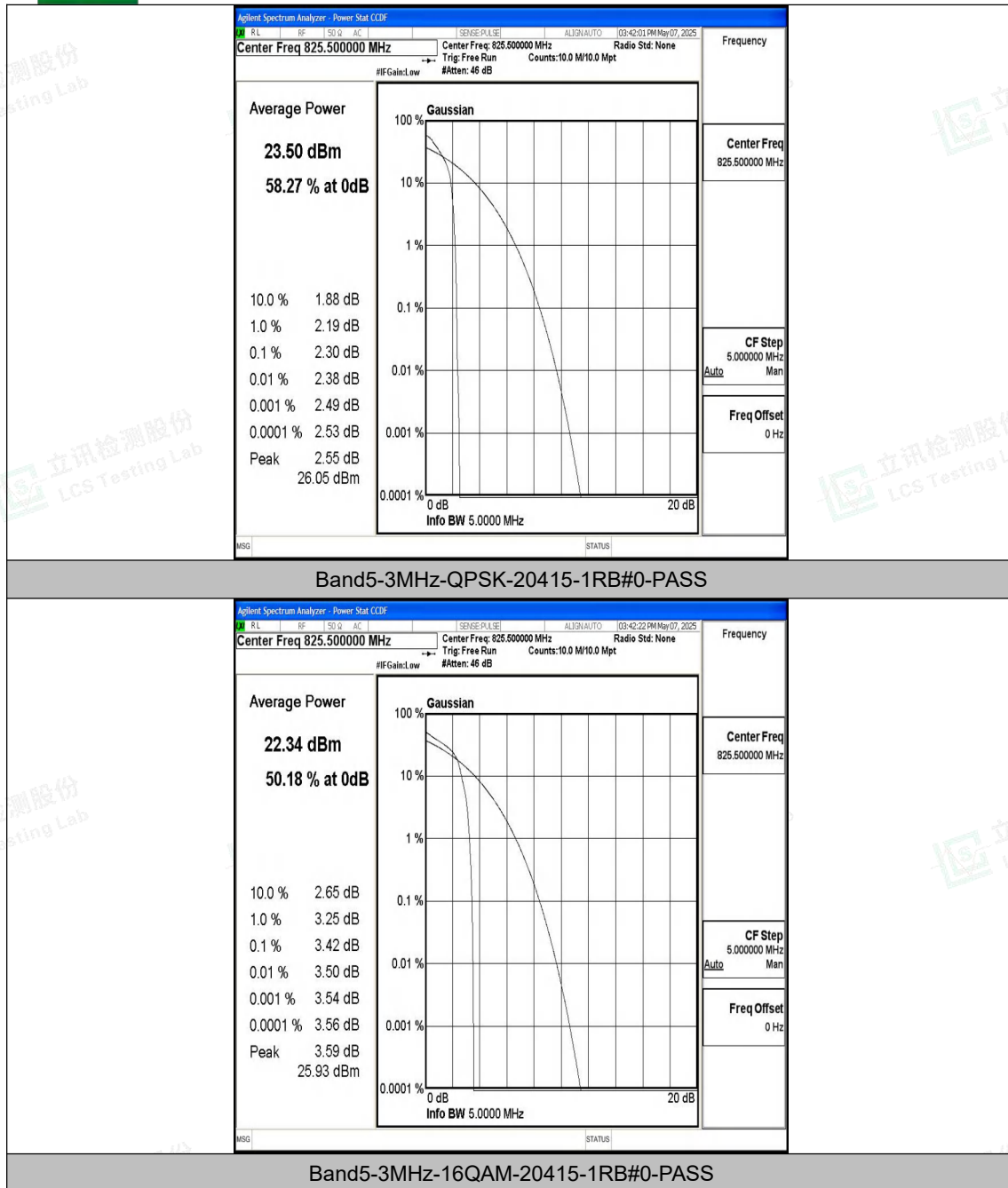


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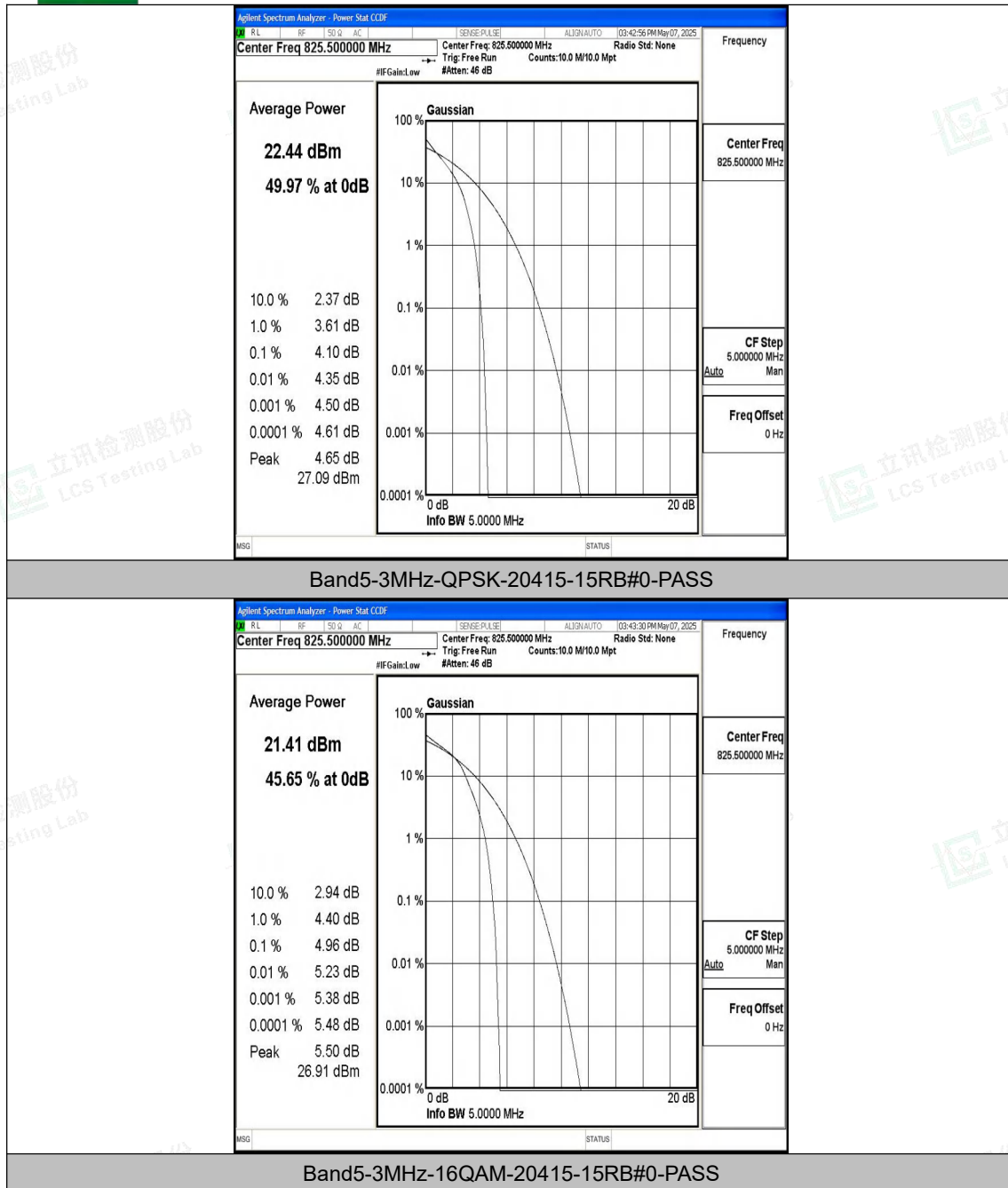


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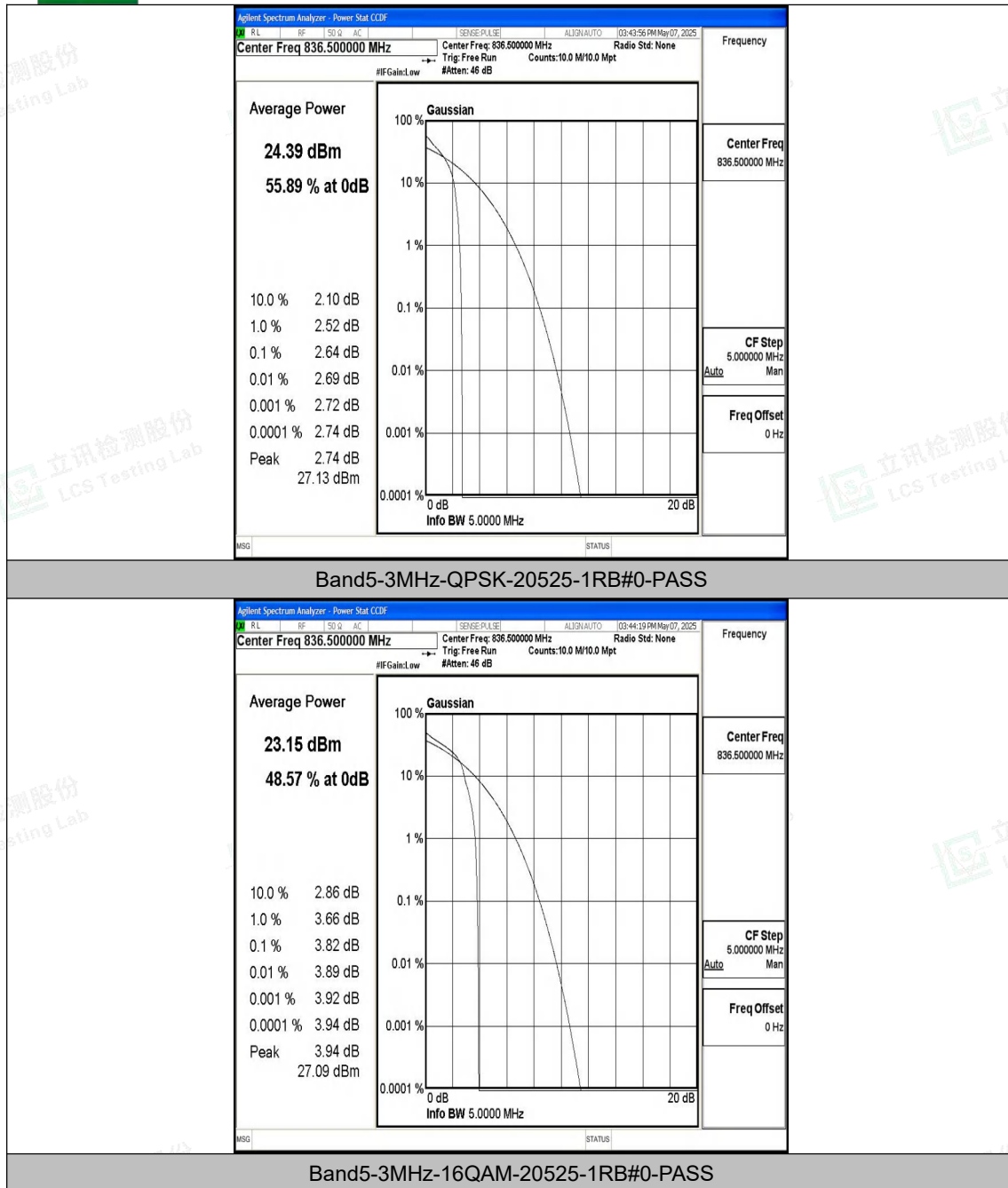


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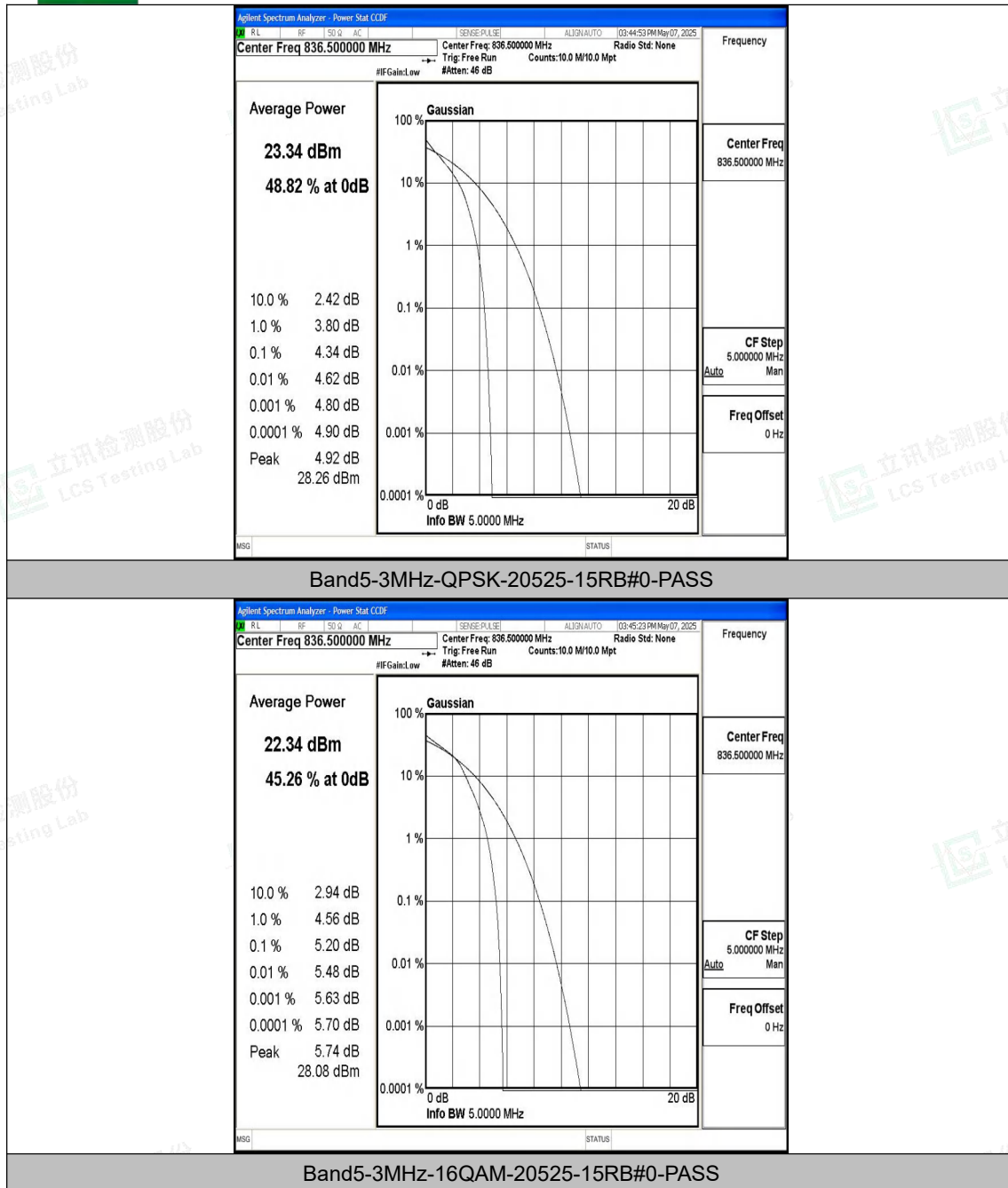


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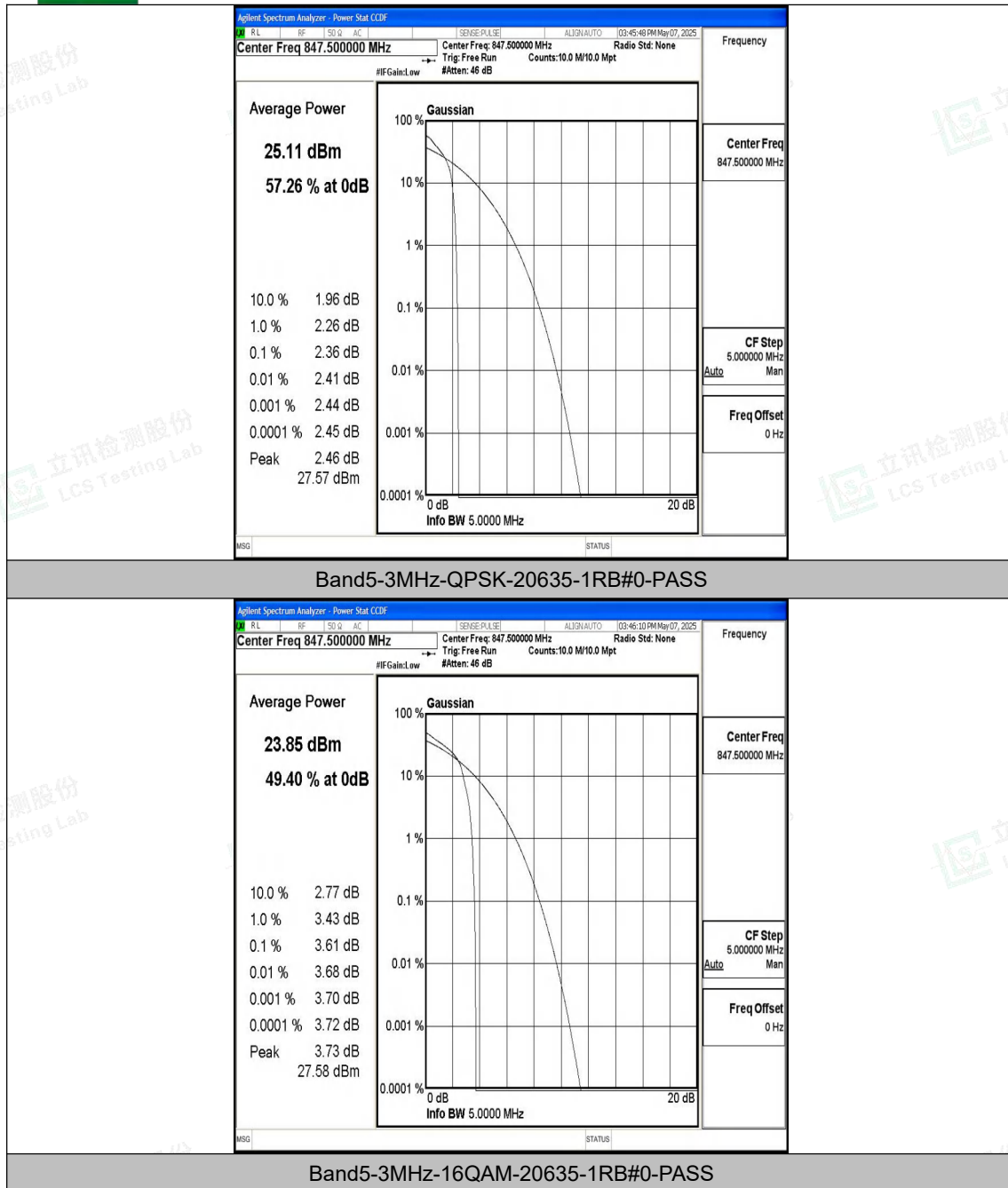


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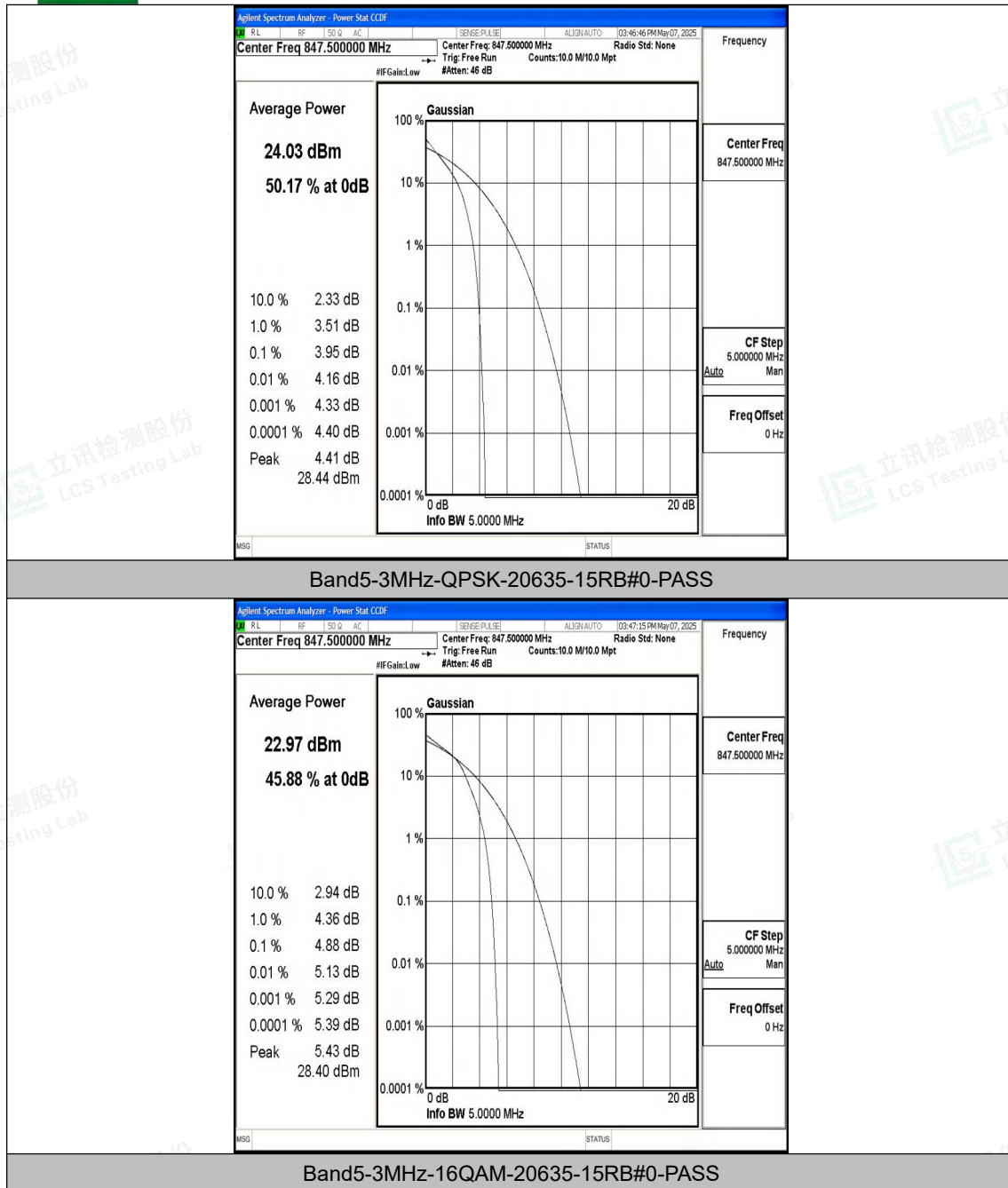


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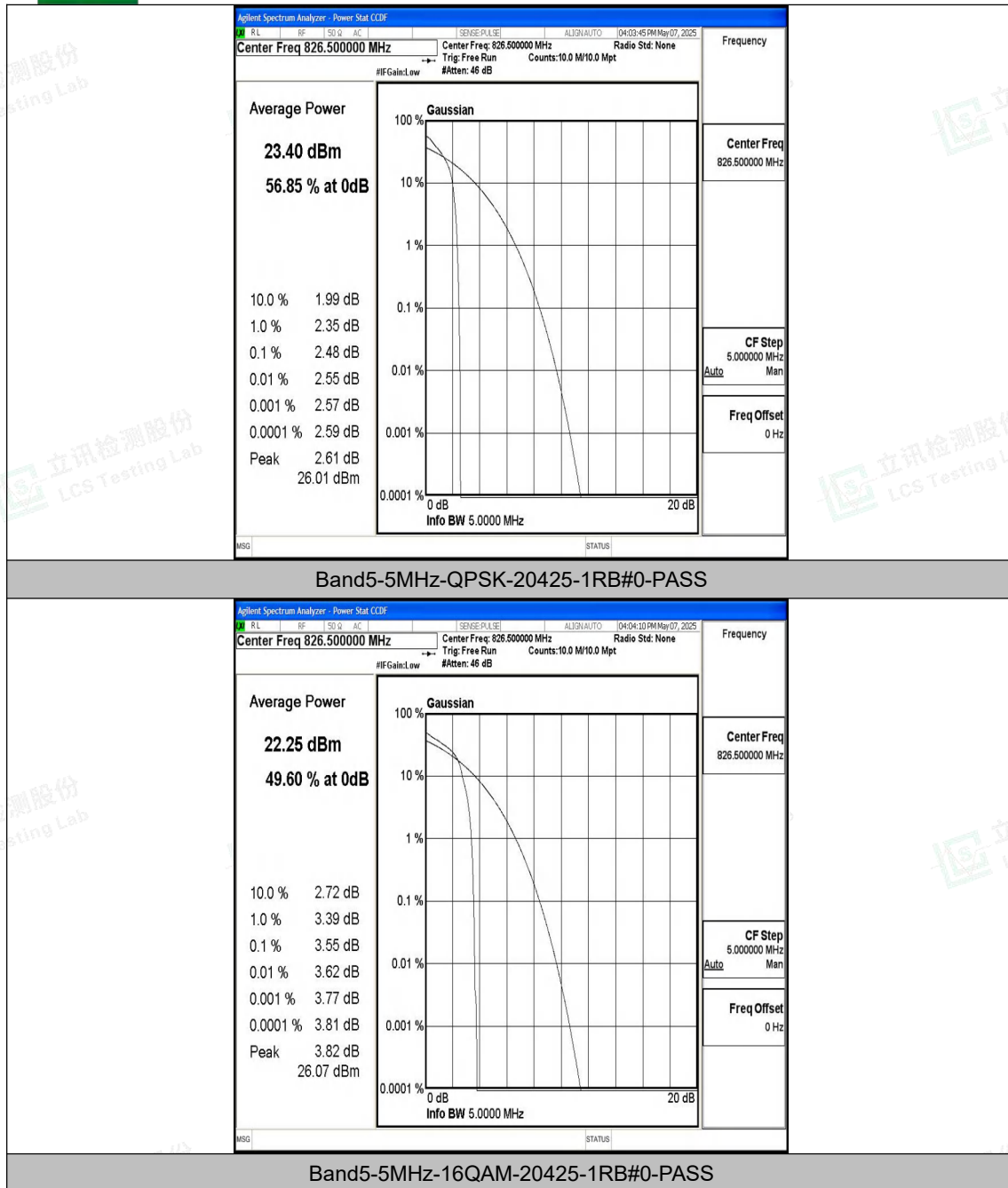


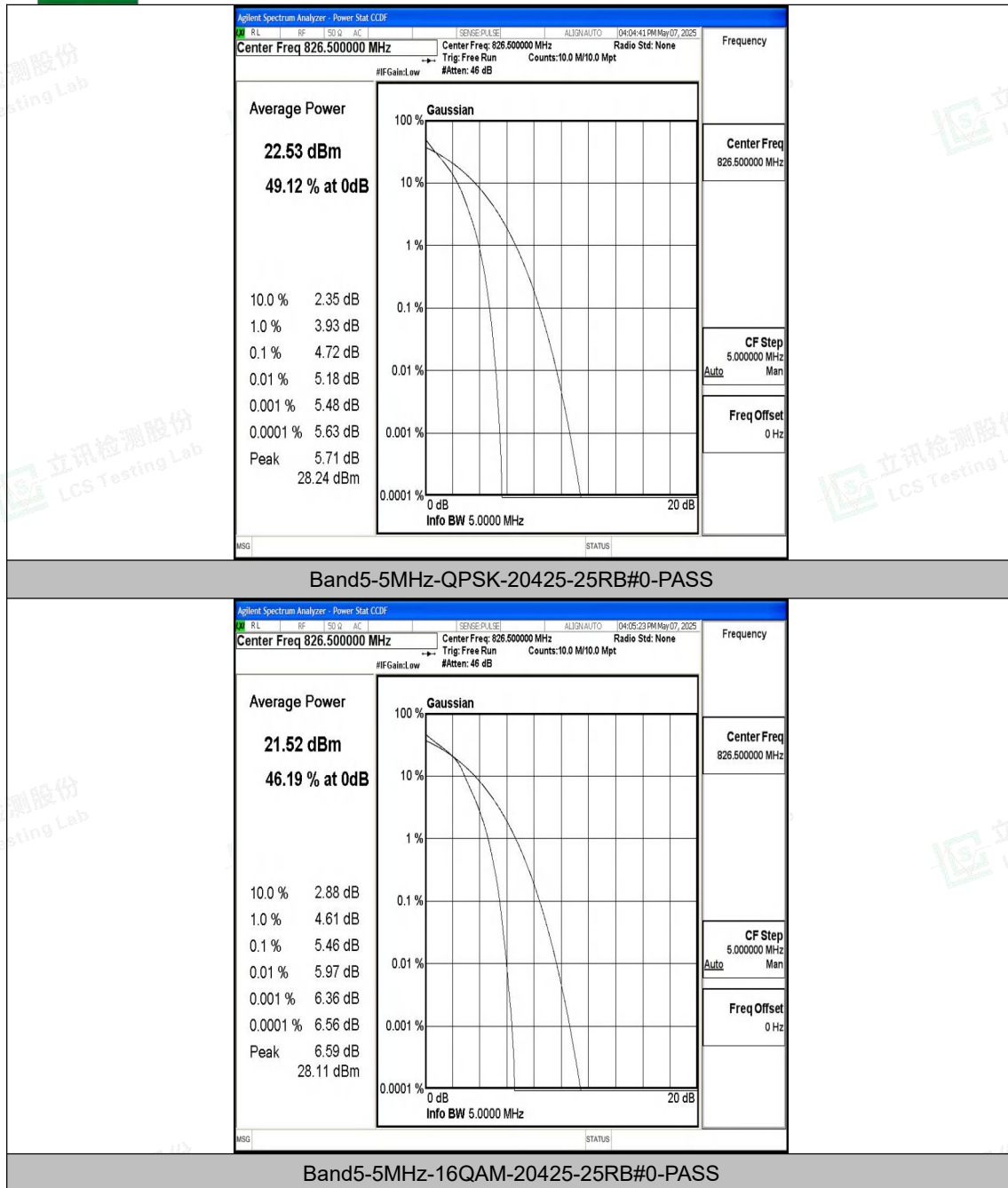
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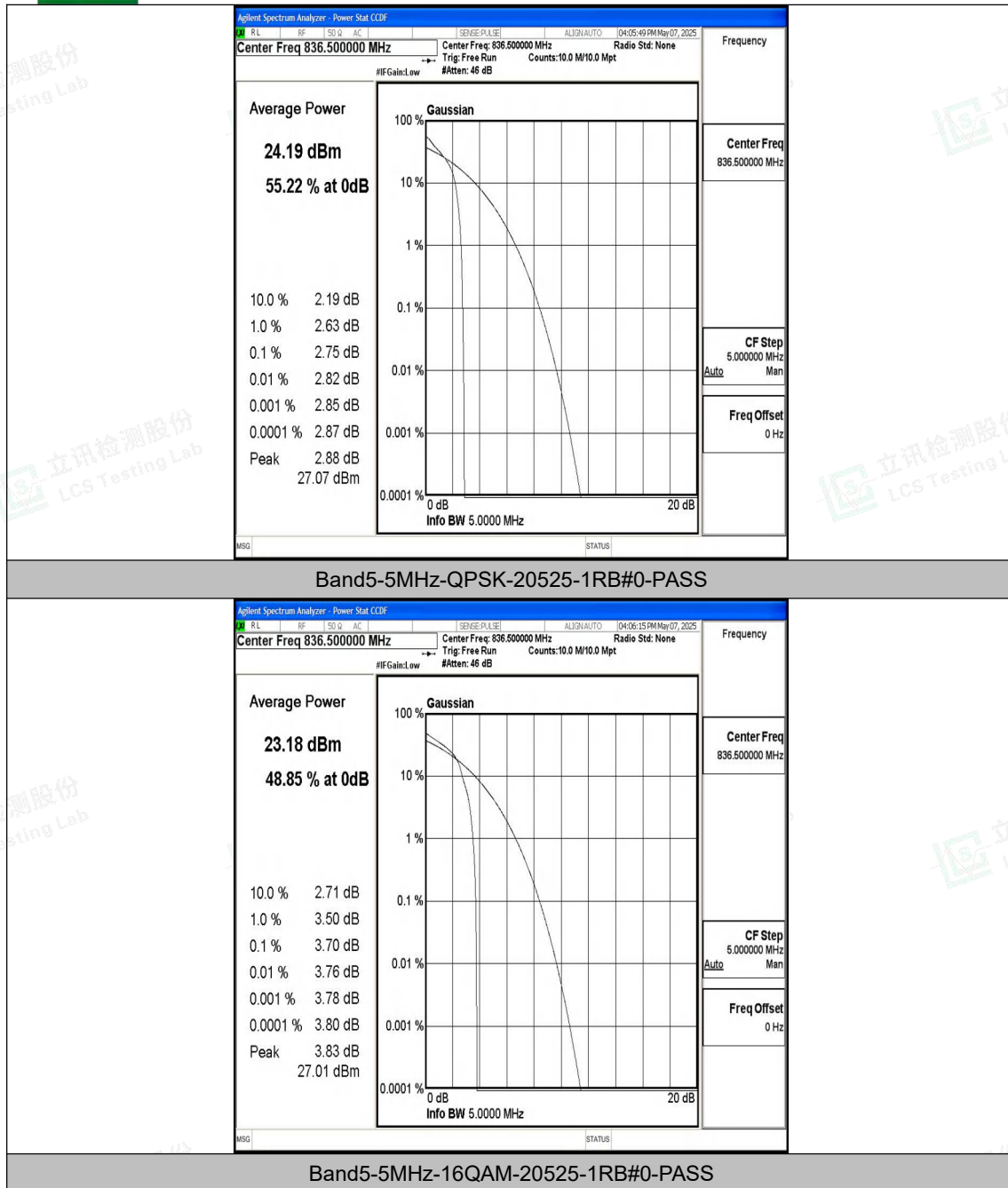
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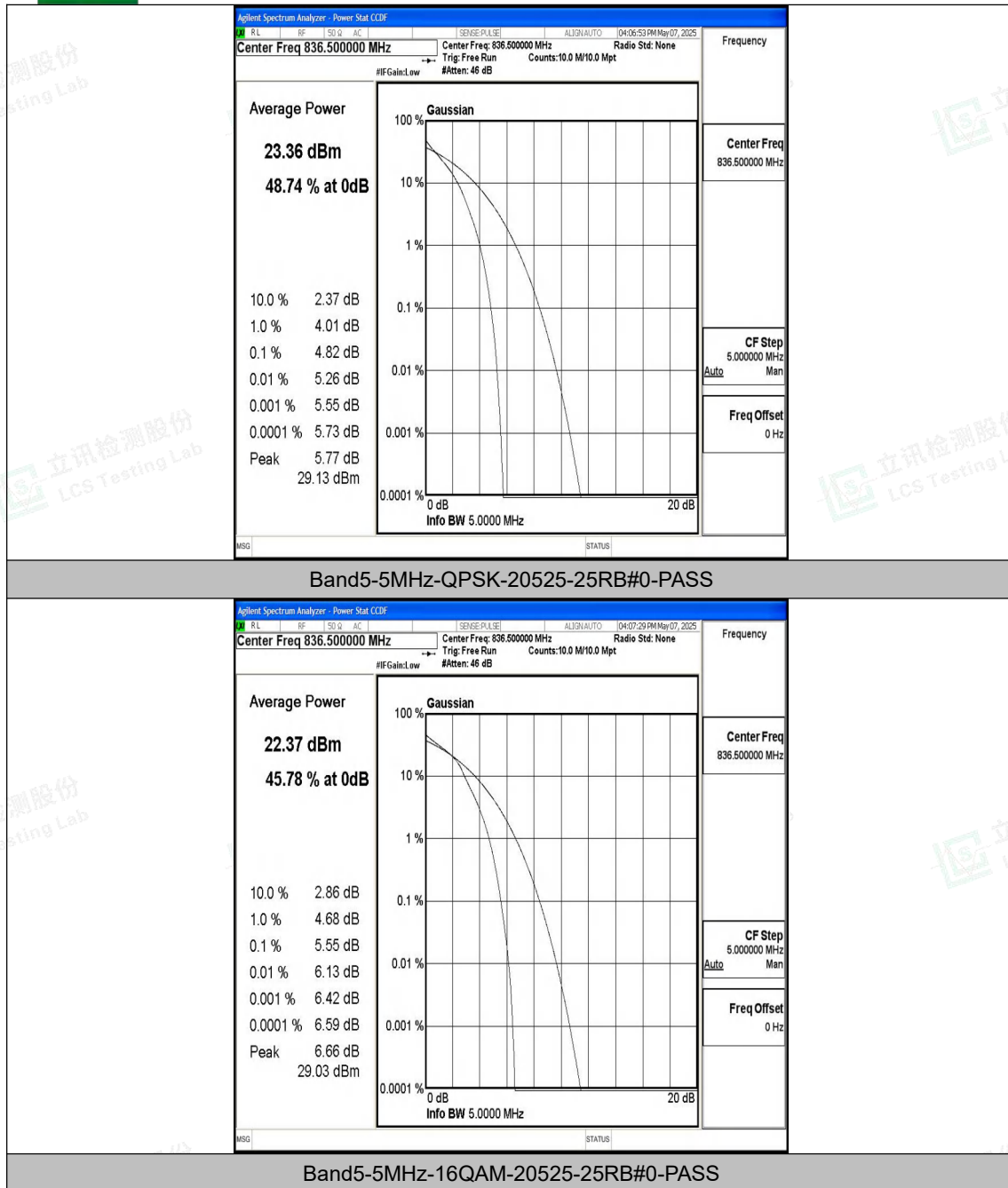
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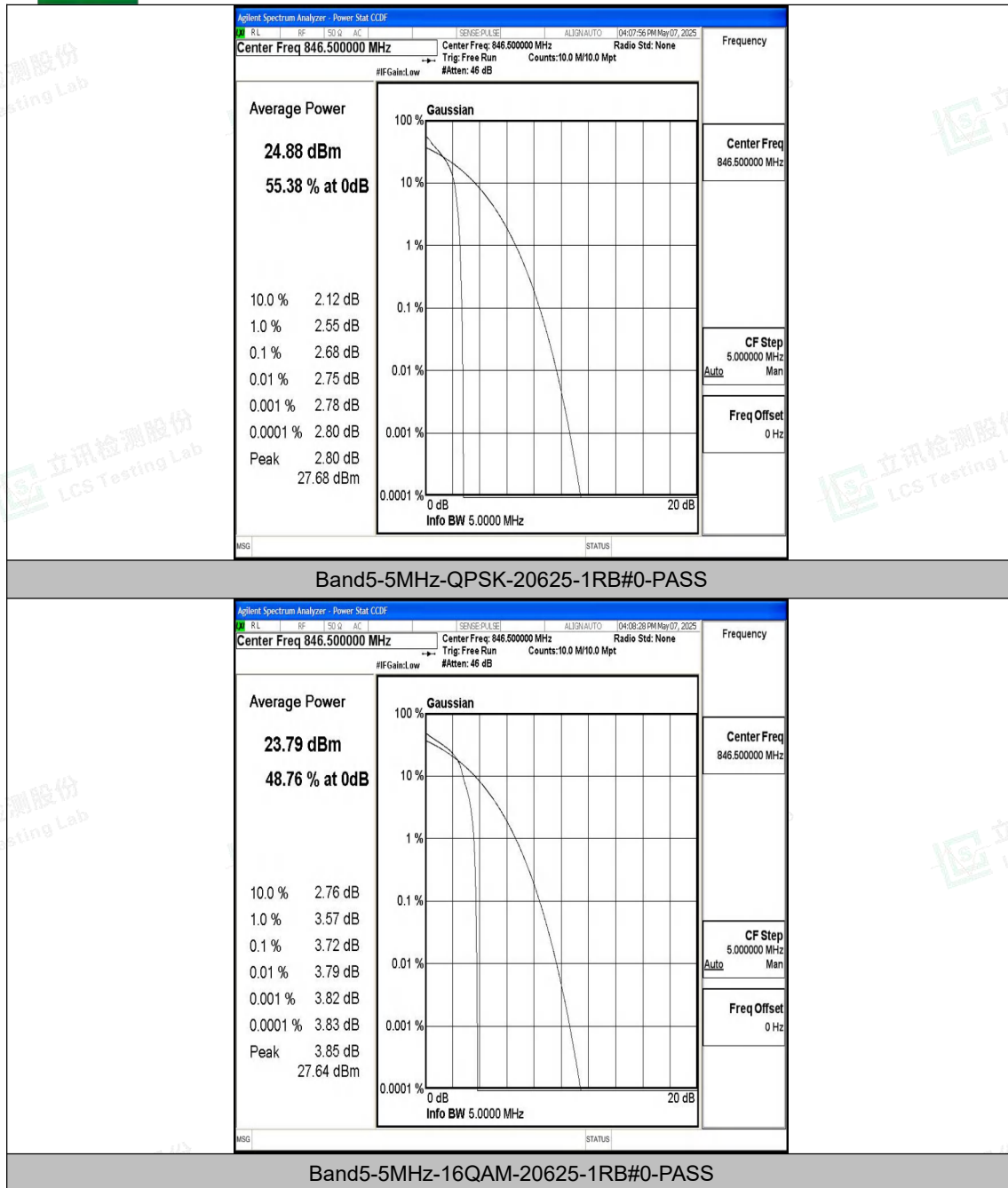


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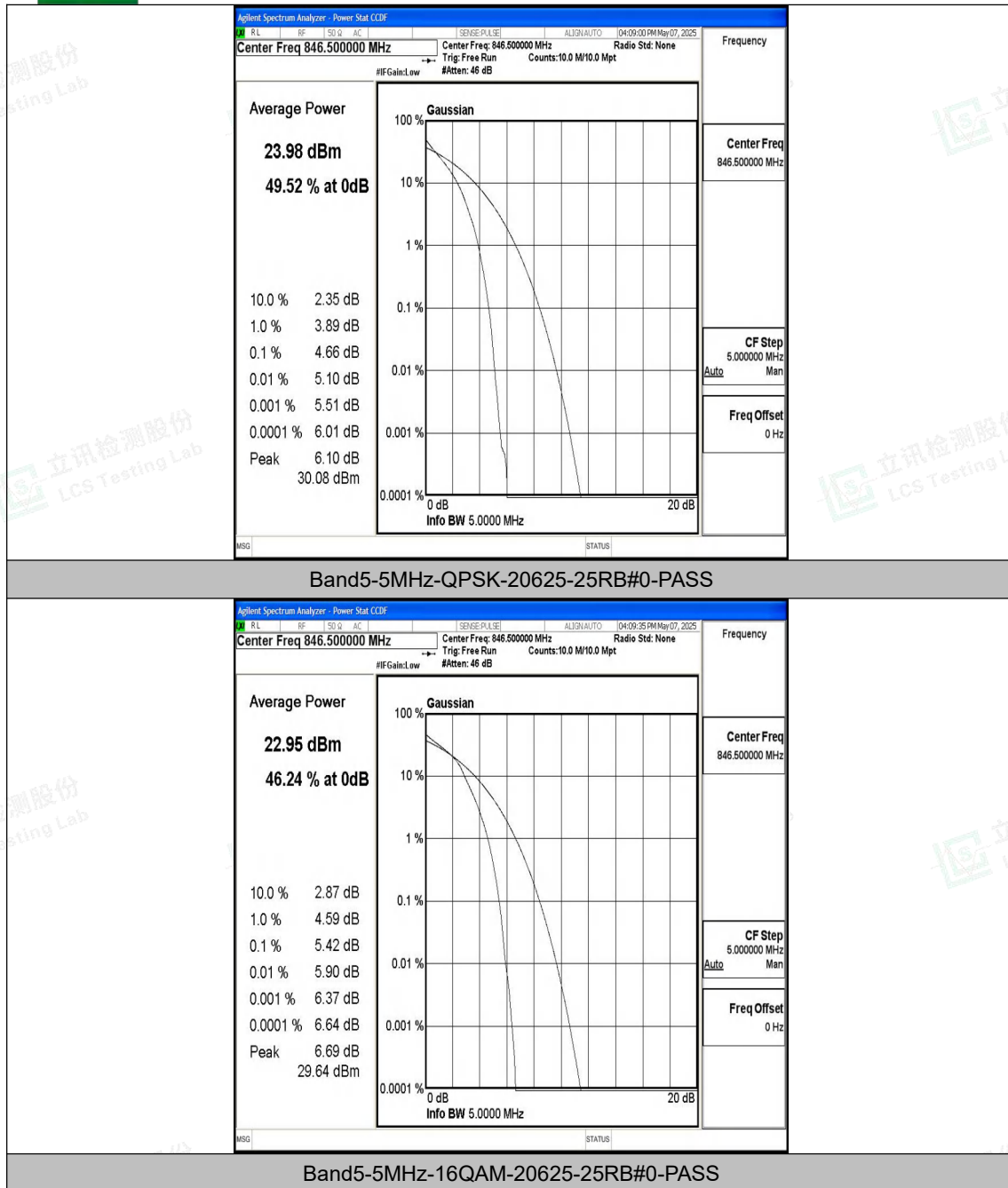


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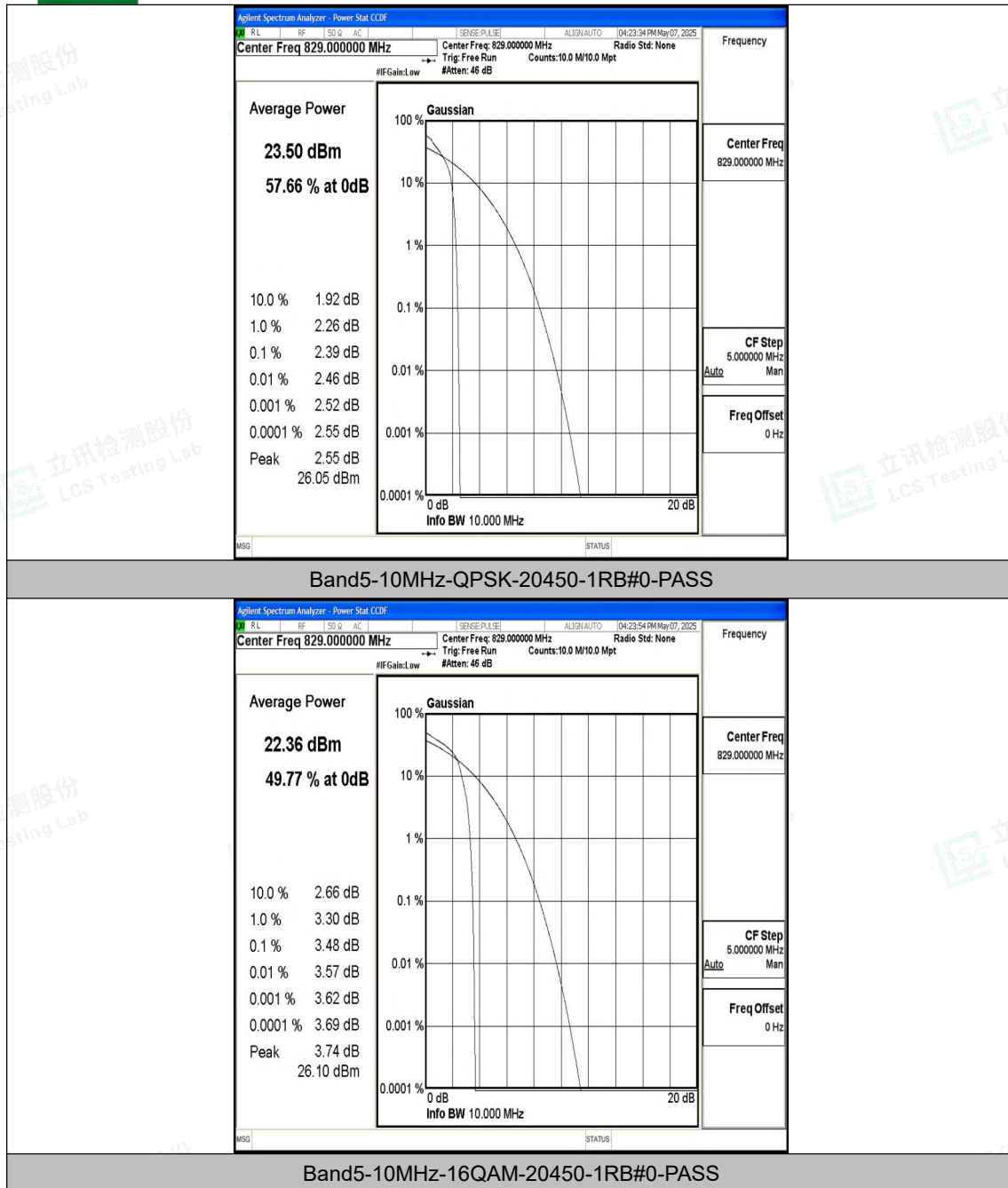


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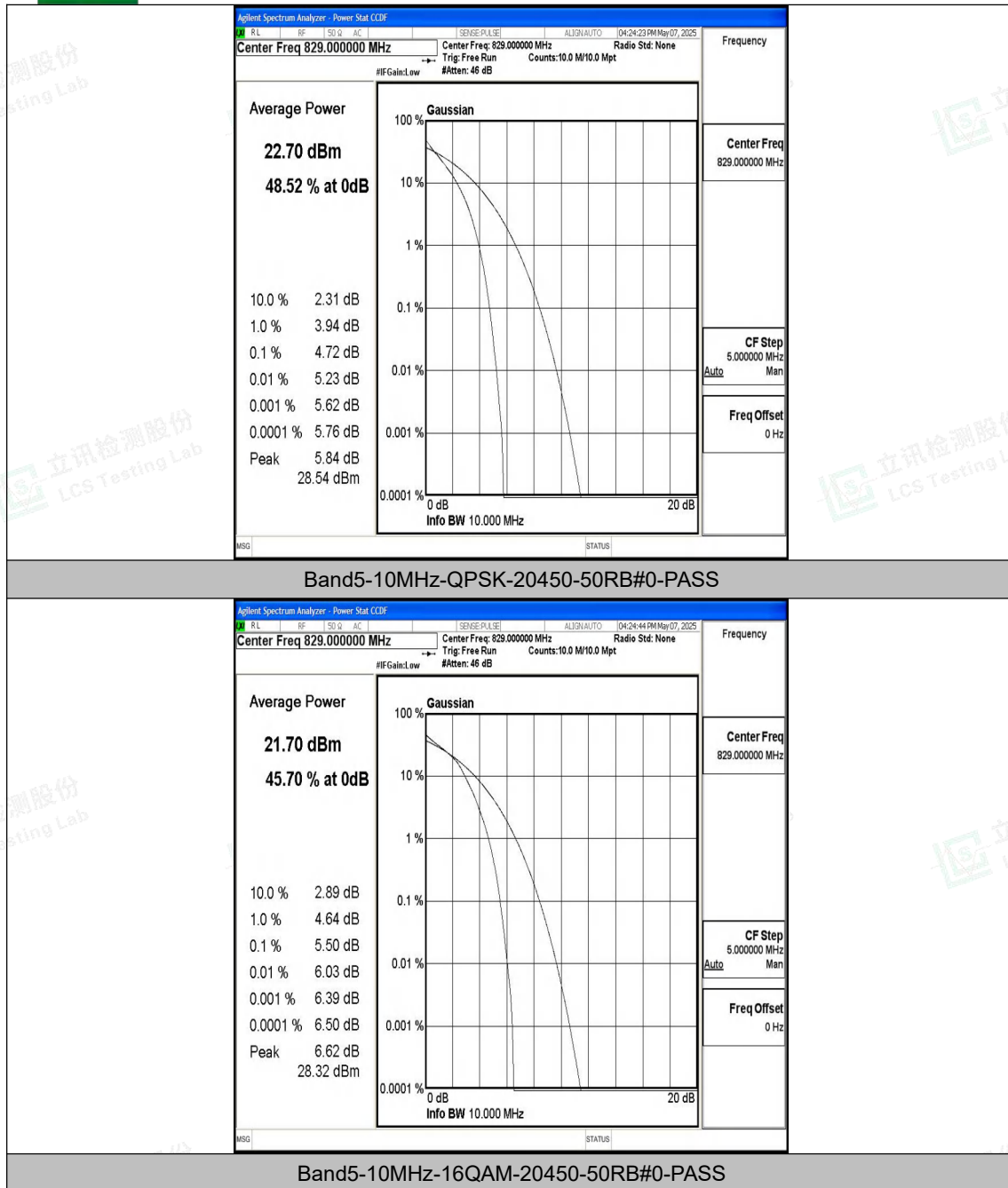


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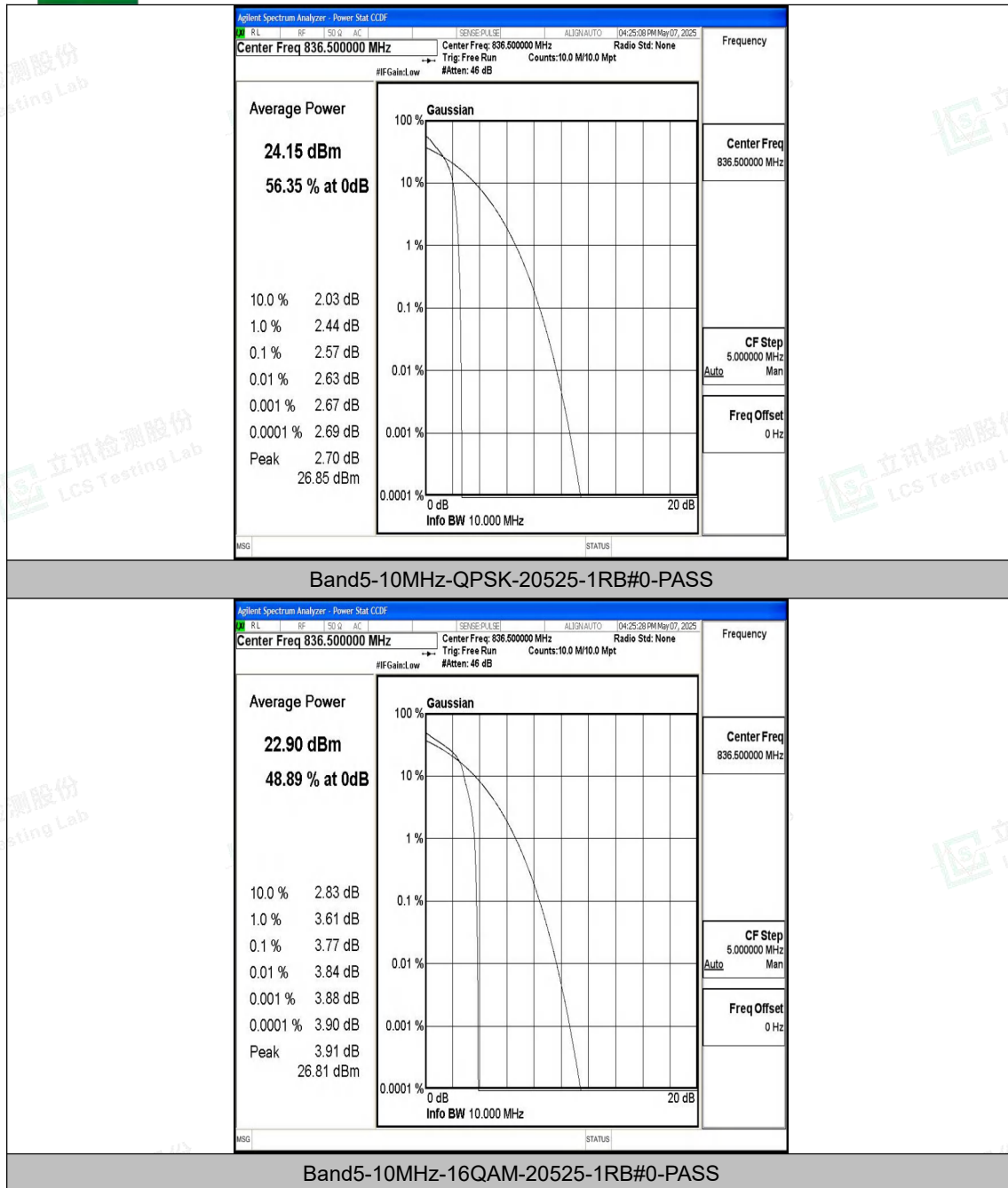


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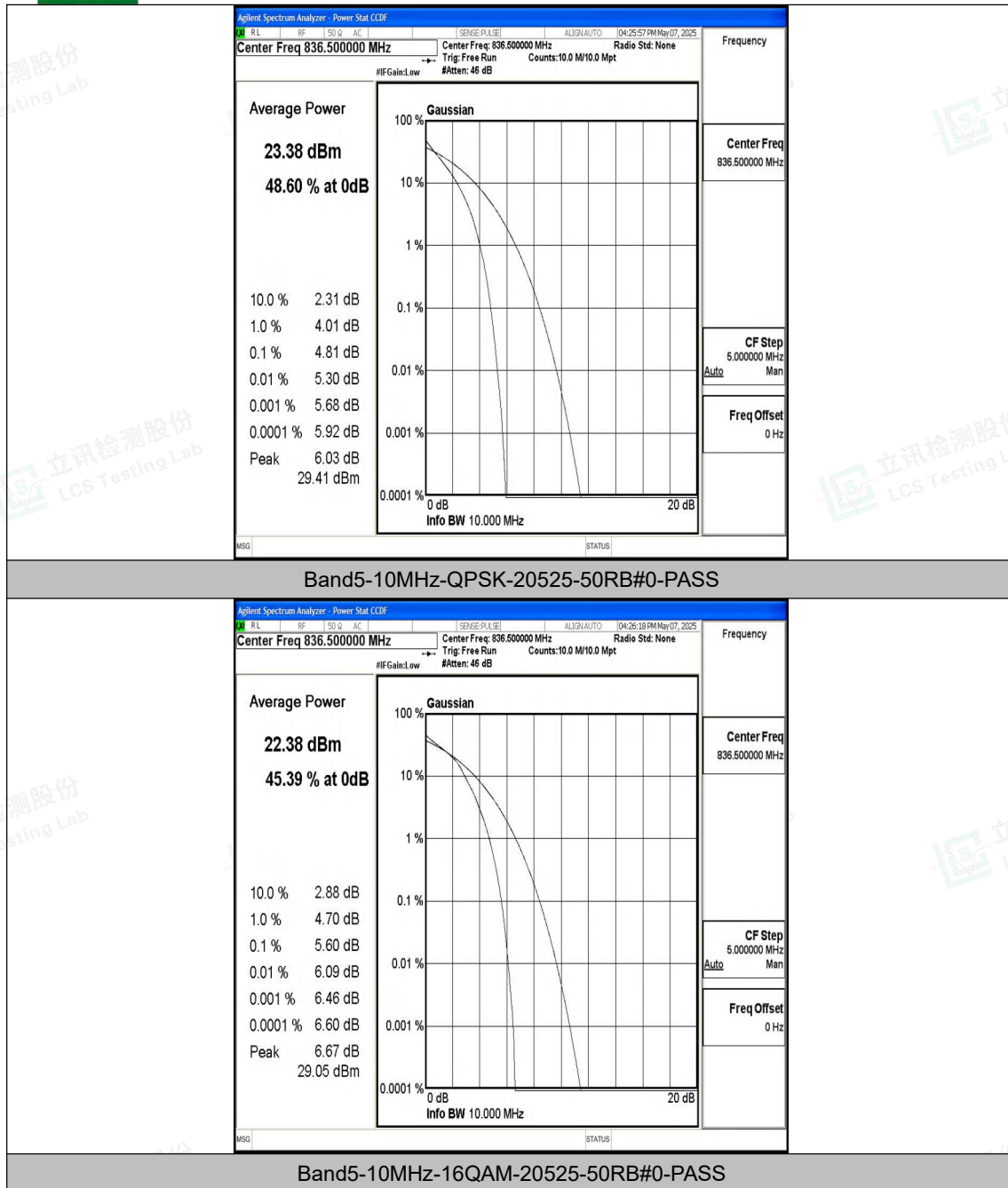


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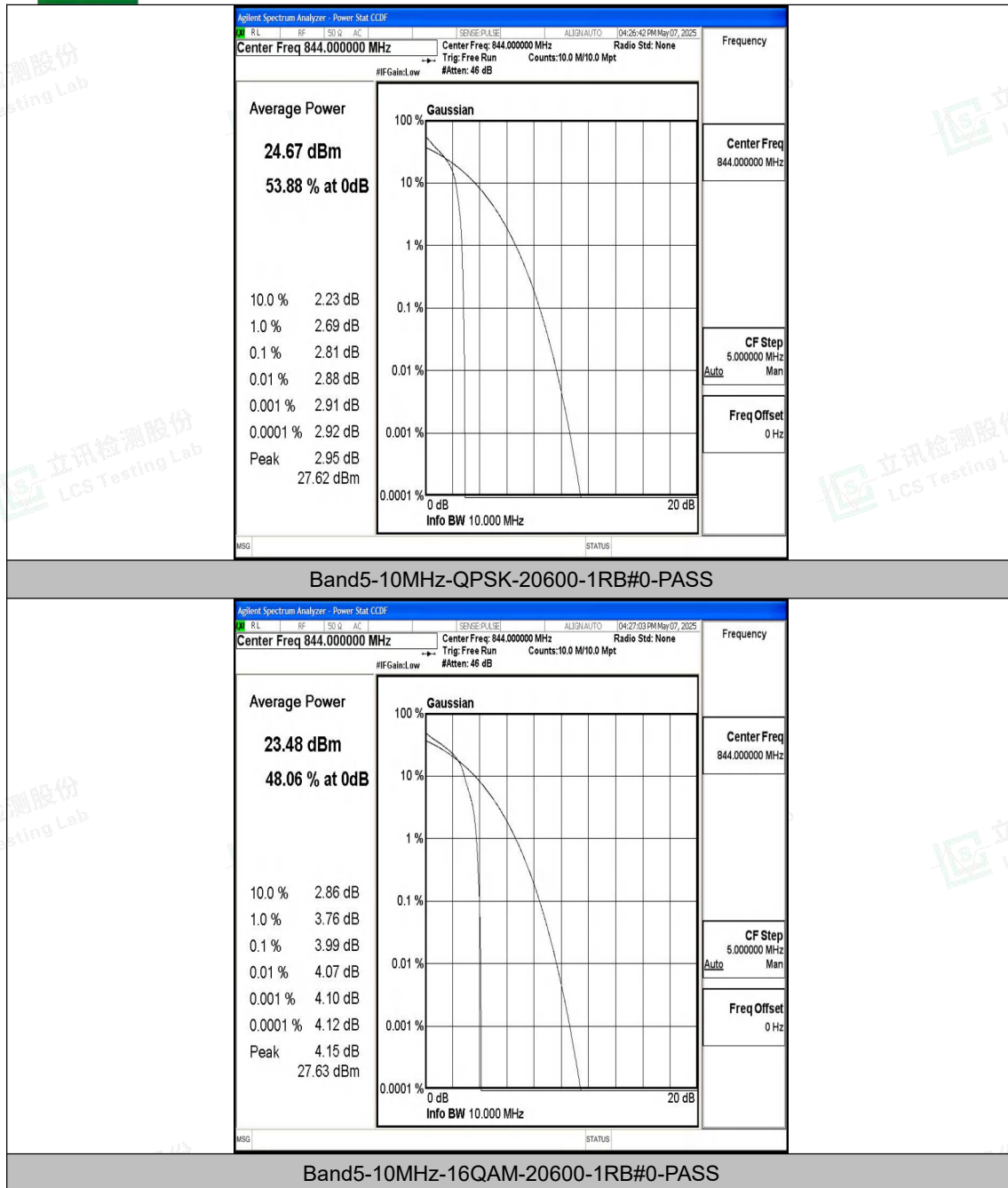


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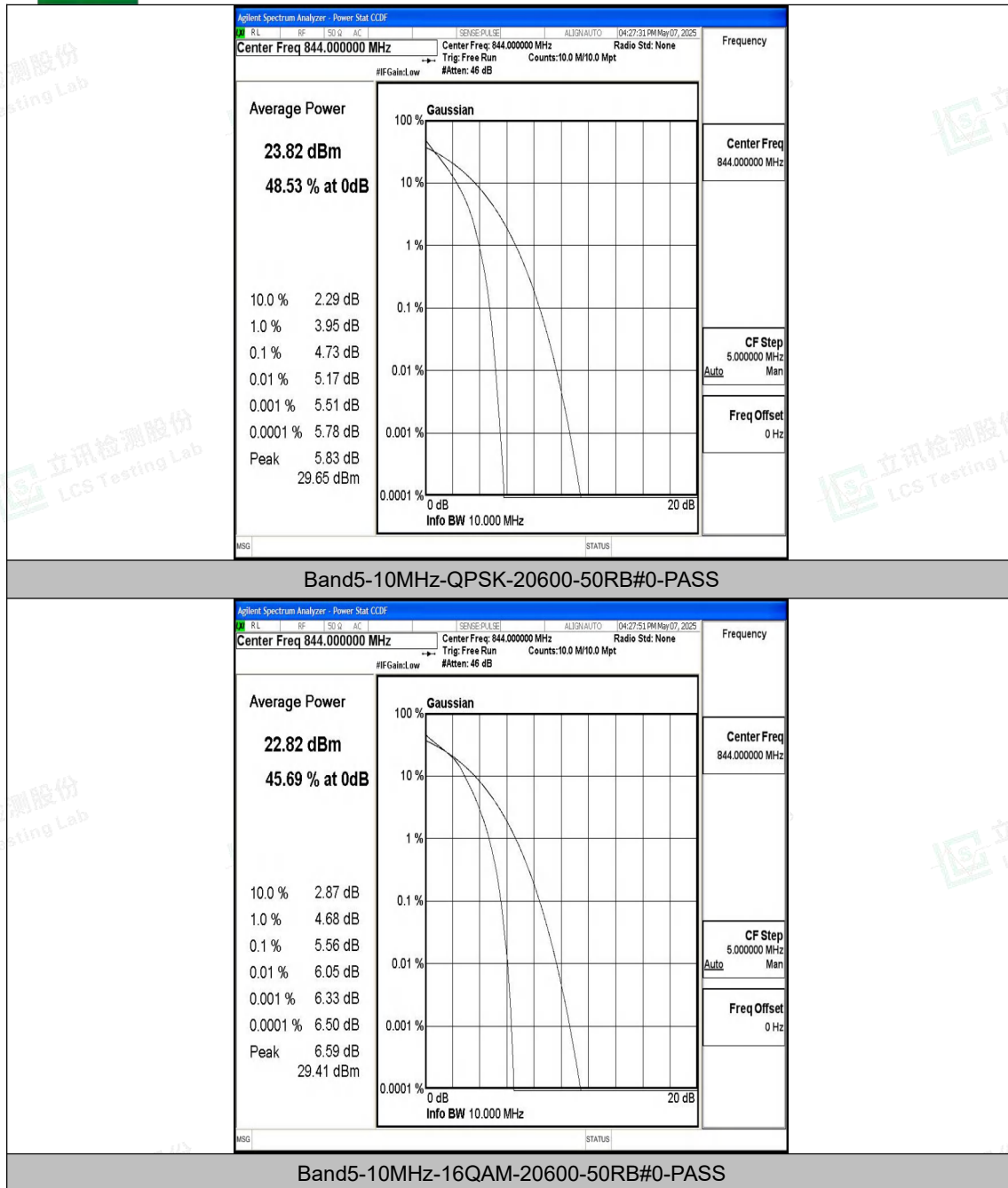


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H.3 26dB Bandwidth and Occupied Bandwidth

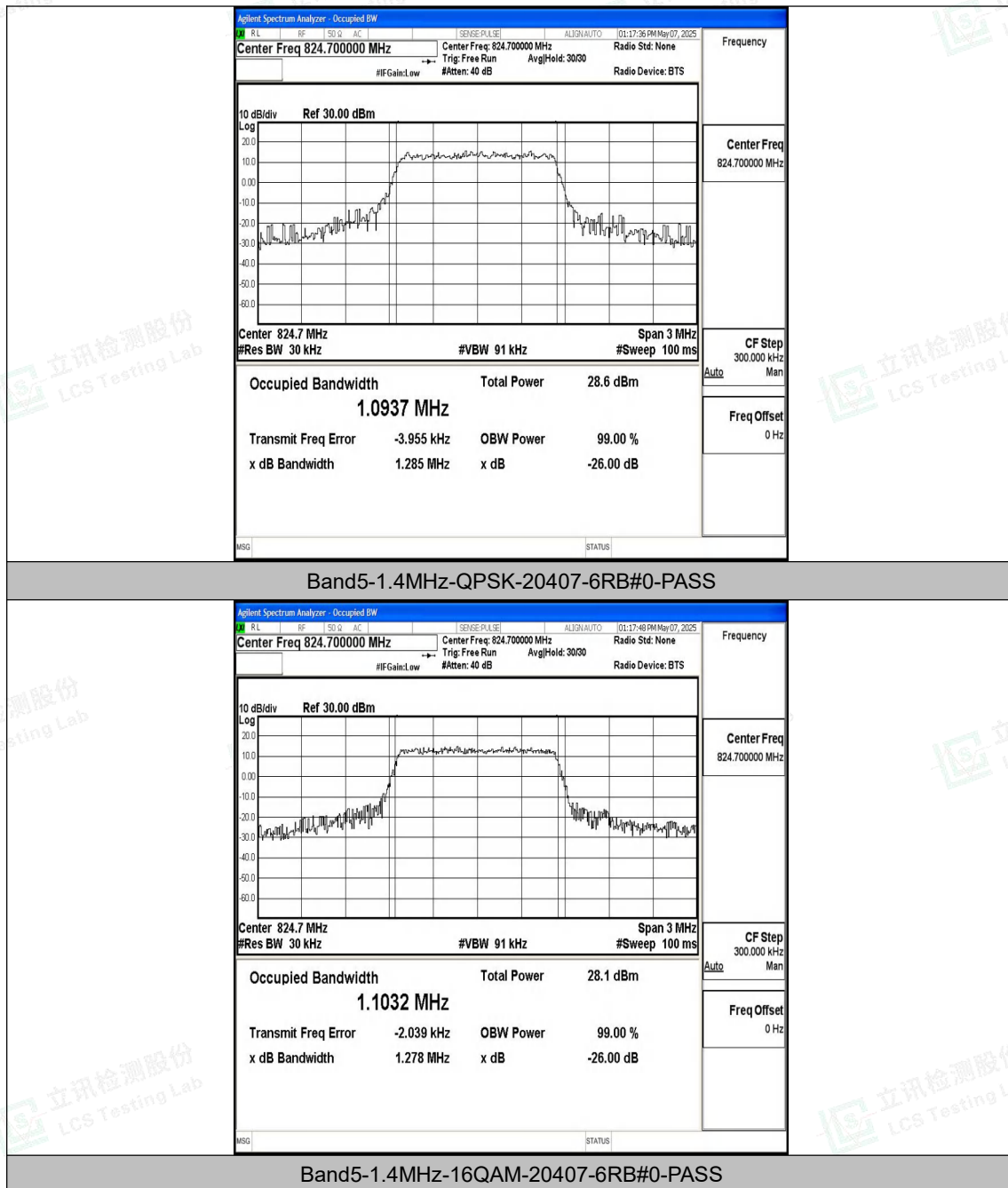
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0937	1.285	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1032	1.278	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0990	1.311	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1037	1.362	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1000	1.294	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0935	1.383	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7326	3.016	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7173	2.984	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7255	2.991	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7150	2.988	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7291	2.981	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7310	2.991	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.4977	4.954	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4965	4.927	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4968	4.906	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.4994	4.951	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5054	4.970	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5090	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9773	9.860	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9991	9.711	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9969	9.748	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9860	9.792	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9714	9.751	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9627	9.716	PASS





Test Graphs

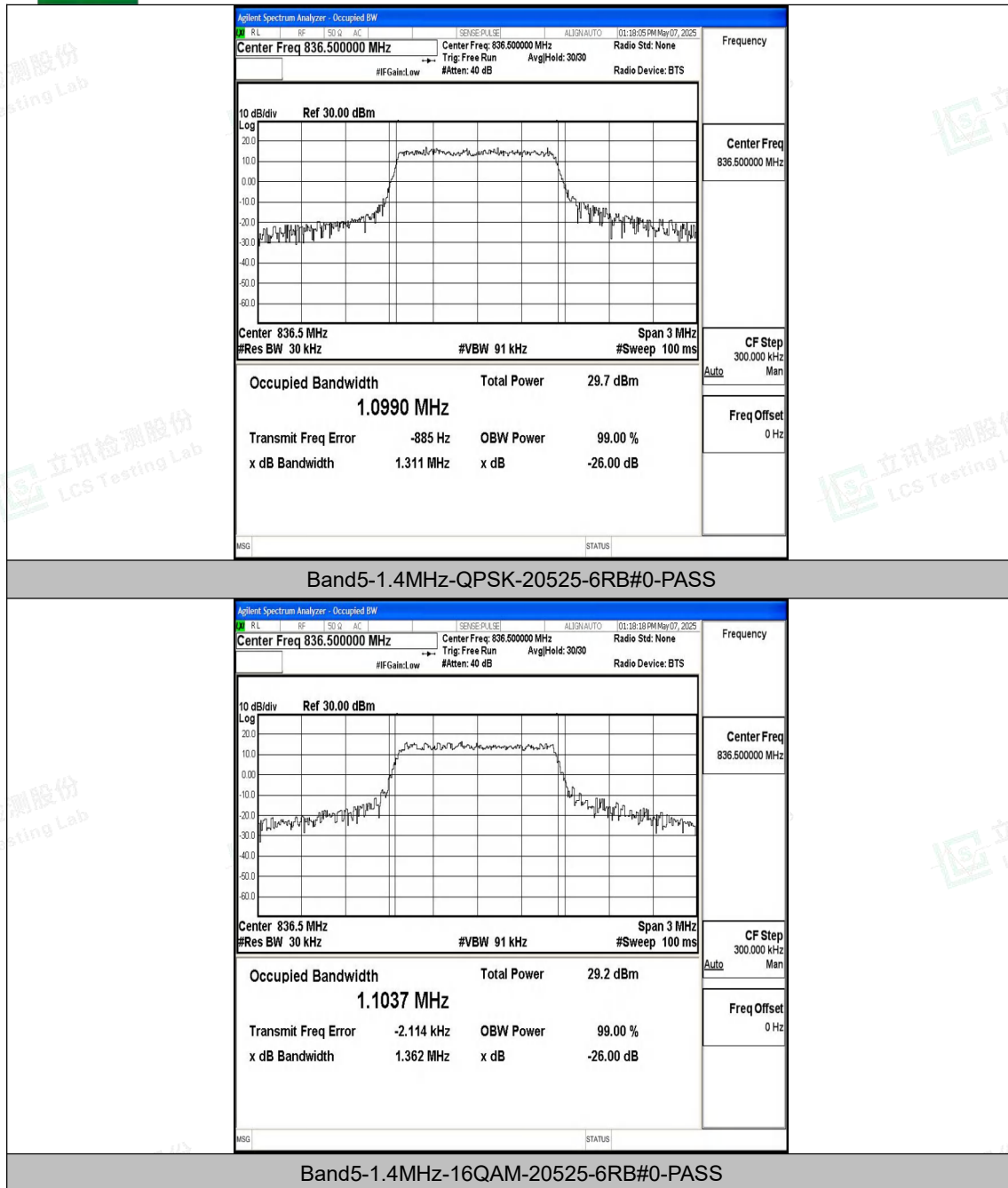


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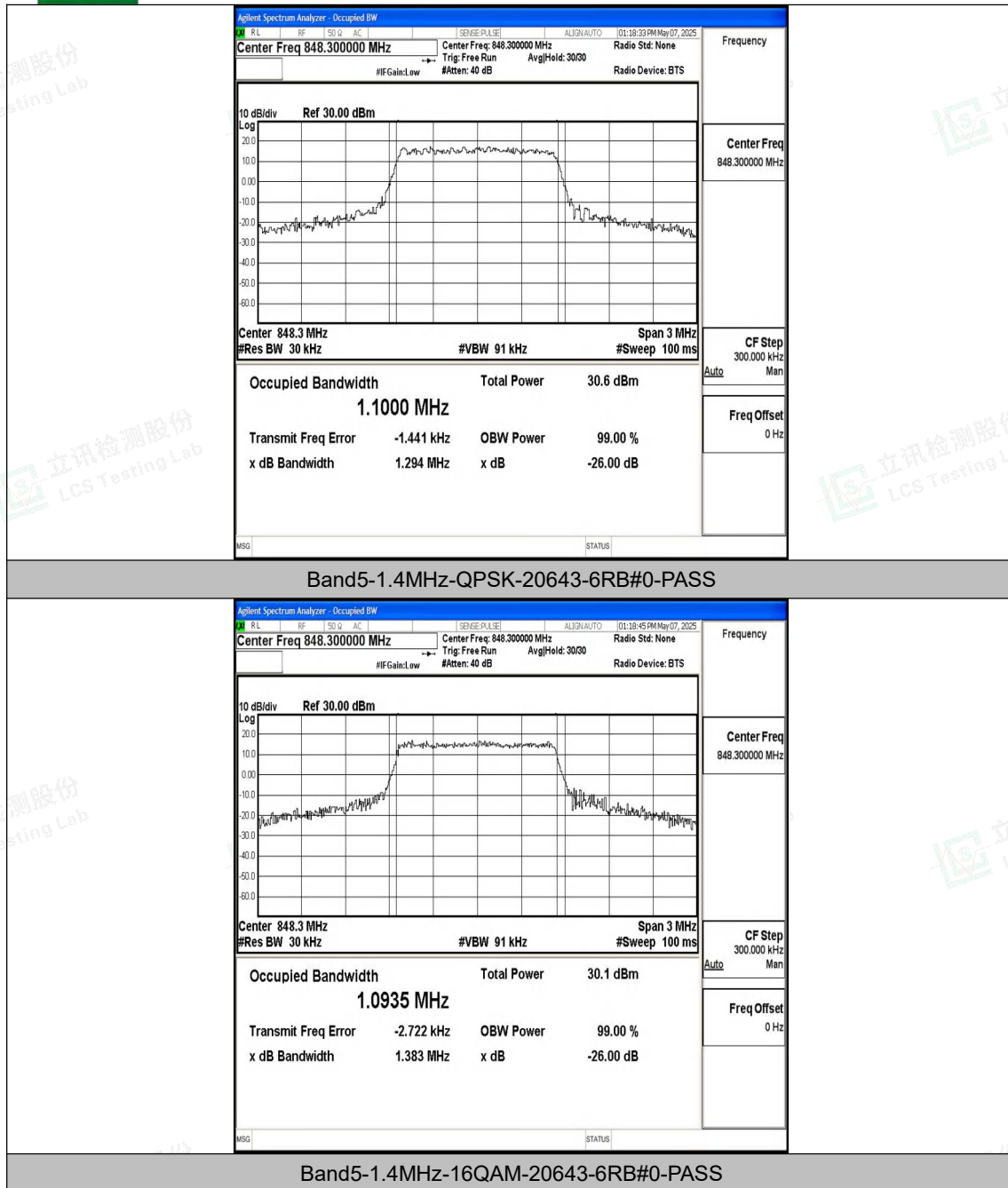


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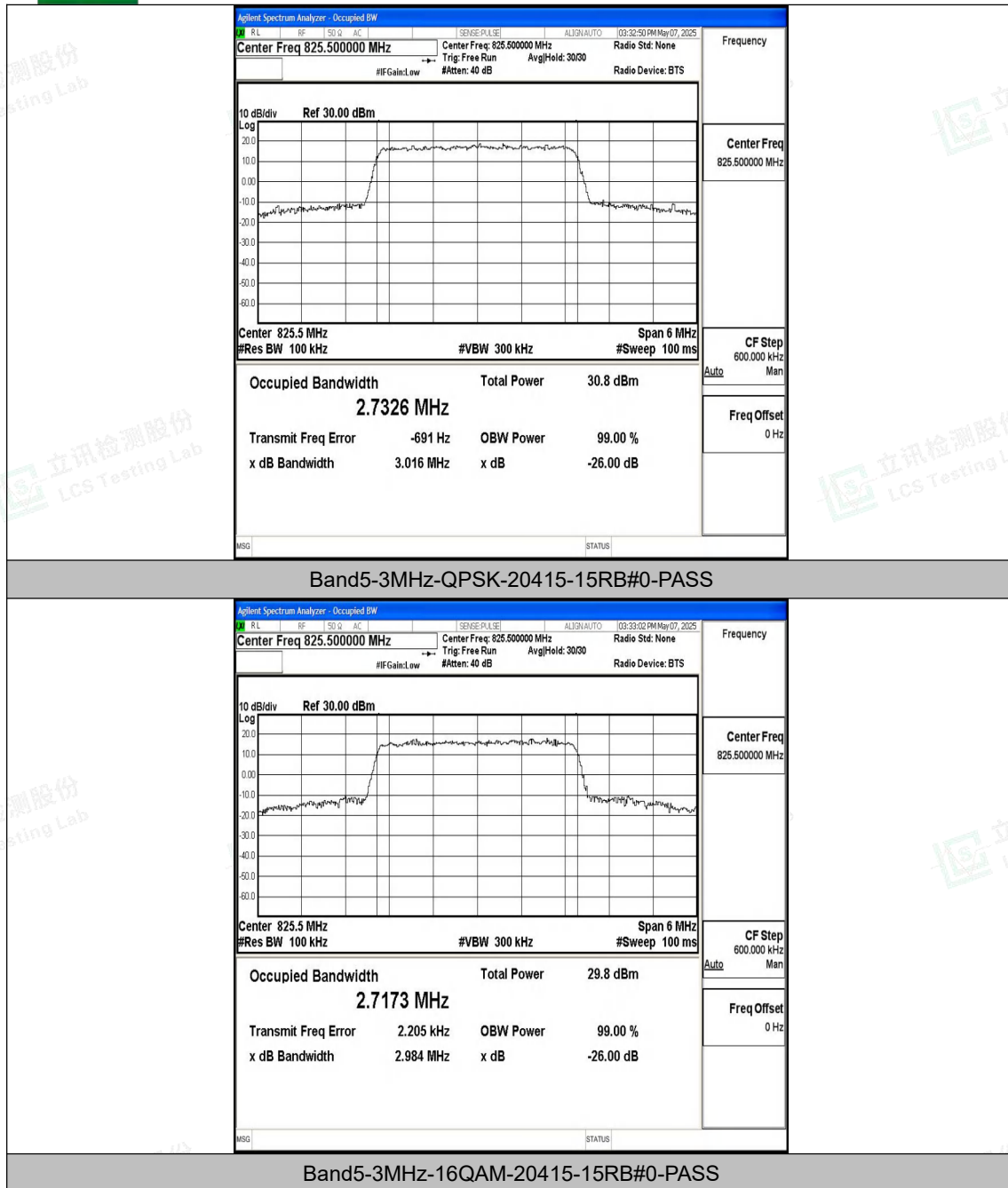


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