



Appendix J: Test Data for E-UTRA Band 38

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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J.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.15	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.09	PASS
Band38	5MHz	QPSK	37775	1RB#12	21.05	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.05	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.08	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.05	PASS
Band38	5MHz	QPSK	37775	12RB#0	20.35	PASS
Band38	5MHz	16QAM	37775	12RB#0	19.56	PASS
Band38	5MHz	QPSK	37775	12RB#6	20.34	PASS
Band38	5MHz	16QAM	37775	12RB#6	19.54	PASS
Band38	5MHz	QPSK	37775	12RB#13	20.25	PASS
Band38	5MHz	16QAM	37775	12RB#13	19.44	PASS
Band38	5MHz	QPSK	37775	25RB#0	20.32	PASS
Band38	5MHz	16QAM	37775	25RB#0	19.54	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.35	PASS
Band38	5MHz	QPSK	38000	1RB#12	20.96	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.42	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.03	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.28	PASS
Band38	5MHz	QPSK	38000	12RB#0	19.97	PASS
Band38	5MHz	16QAM	38000	12RB#0	19.14	PASS
Band38	5MHz	QPSK	38000	12RB#6	19.97	PASS
Band38	5MHz	16QAM	38000	12RB#6	19.13	PASS
Band38	5MHz	QPSK	38000	12RB#13	19.88	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.14	PASS
Band38	5MHz	QPSK	38000	25RB#0	19.91	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.22	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.63	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.29	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.64	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.04	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.67	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.26	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.55	PASS



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Band38	5MHz	16QAM	38225	12RB#0	19.96	PASS
Band38	5MHz	QPSK	38225	12RB#6	20.55	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.96	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.74	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.95	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.77	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.11	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.73	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.36	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.52	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.31	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.43	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.28	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.34	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.63	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.34	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.60	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.14	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.58	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.25	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.61	PASS
Band38	10MHz	QPSK	38000	1RB#0	21.96	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.71	PASS
Band38	10MHz	QPSK	38000	1RB#24	21.91	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.71	PASS
Band38	10MHz	QPSK	38000	1RB#49	21.89	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.66	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.06	PASS
Band38	10MHz	16QAM	38000	25RB#0	20.64	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.06	PASS
Band38	10MHz	16QAM	38000	25RB#12	20.65	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.17	PASS
Band38	10MHz	16QAM	38000	25RB#25	20.66	PASS
Band38	10MHz	QPSK	38000	50RB#0	20.92	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.28	PASS
Band38	10MHz	QPSK	38200	1RB#0	21.94	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.89	PASS
Band38	10MHz	QPSK	38200	1RB#24	21.98	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.77	PASS
Band38	10MHz	QPSK	38200	1RB#49	21.88	PASS



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Band38	10MHz	16QAM	38200	1RB#49	21.69	PASS
Band38	10MHz	QPSK	38200	25RB#0	20.88	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.14	PASS
Band38	10MHz	QPSK	38200	25RB#12	20.89	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.11	PASS
Band38	10MHz	QPSK	38200	25RB#25	20.76	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.07	PASS
Band38	10MHz	QPSK	38200	50RB#0	20.76	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.13	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.67	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.42	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.43	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.27	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.34	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.25	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.22	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.23	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.23	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.23	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.23	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.23	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.22	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.68	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.81	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.11	PASS
Band38	15MHz	QPSK	38000	1RB#38	21.90	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.16	PASS
Band38	15MHz	QPSK	38000	1RB#74	21.80	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.10	PASS
Band38	15MHz	QPSK	38000	38RB#0	20.95	PASS
Band38	15MHz	16QAM	38000	38RB#0	20.95	PASS
Band38	15MHz	QPSK	38000	38RB#18	20.95	PASS
Band38	15MHz	16QAM	38000	38RB#18	20.95	PASS
Band38	15MHz	QPSK	38000	38RB#37	20.95	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.05	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.05	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.58	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.11	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	21.96	PASS



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Band38	15MHz	16QAM	38175	1RB#38	21.79	PASS
Band38	15MHz	QPSK	38175	1RB#74	21.84	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.76	PASS
Band38	15MHz	QPSK	38175	38RB#0	20.90	PASS
Band38	15MHz	16QAM	38175	38RB#0	20.90	PASS
Band38	15MHz	QPSK	38175	38RB#18	20.90	PASS
Band38	15MHz	16QAM	38175	38RB#18	20.90	PASS
Band38	15MHz	QPSK	38175	38RB#37	20.90	PASS
Band38	15MHz	16QAM	38175	38RB#37	20.90	PASS
Band38	15MHz	QPSK	38175	75RB#0	20.90	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.17	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.03	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.72	PASS
Band38	20MHz	QPSK	37850	1RB#49	21.86	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.58	PASS
Band38	20MHz	QPSK	37850	1RB#99	21.82	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.44	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.32	PASS
Band38	20MHz	16QAM	37850	50RB#0	20.72	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.32	PASS
Band38	20MHz	16QAM	37850	50RB#25	20.72	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.14	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.69	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.27	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.62	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.40	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.46	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.25	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.30	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.06	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.36	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.15	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.47	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.15	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.47	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.09	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.51	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.54	PASS
Band38	20MHz	QPSK	38150	1RB#0	21.78	PASS



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Band38	20MHz	16QAM	38150	1RB#0	22.20	PASS
Band38	20MHz	QPSK	38150	1RB#49	21.64	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.97	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.53	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.68	PASS
Band38	20MHz	QPSK	38150	50RB#0	20.79	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.27	PASS
Band38	20MHz	QPSK	38150	50RB#25	20.80	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.27	PASS
Band38	20MHz	QPSK	38150	50RB#50	20.66	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.06	PASS
Band38	20MHz	QPSK	38150	100RB#0	20.61	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.14	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.52	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.01	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.11	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.75	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.73	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	8.95	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.05	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.72	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.21	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.63	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	8.82	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.66	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.21	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	8.69	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.12	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.72	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.67	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.81	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.26	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.71	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.64	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.76	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.09	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.72	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.44	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.60	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.29	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.99	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.59	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.60	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.37	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.91	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	7.97	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.27	13	PASS



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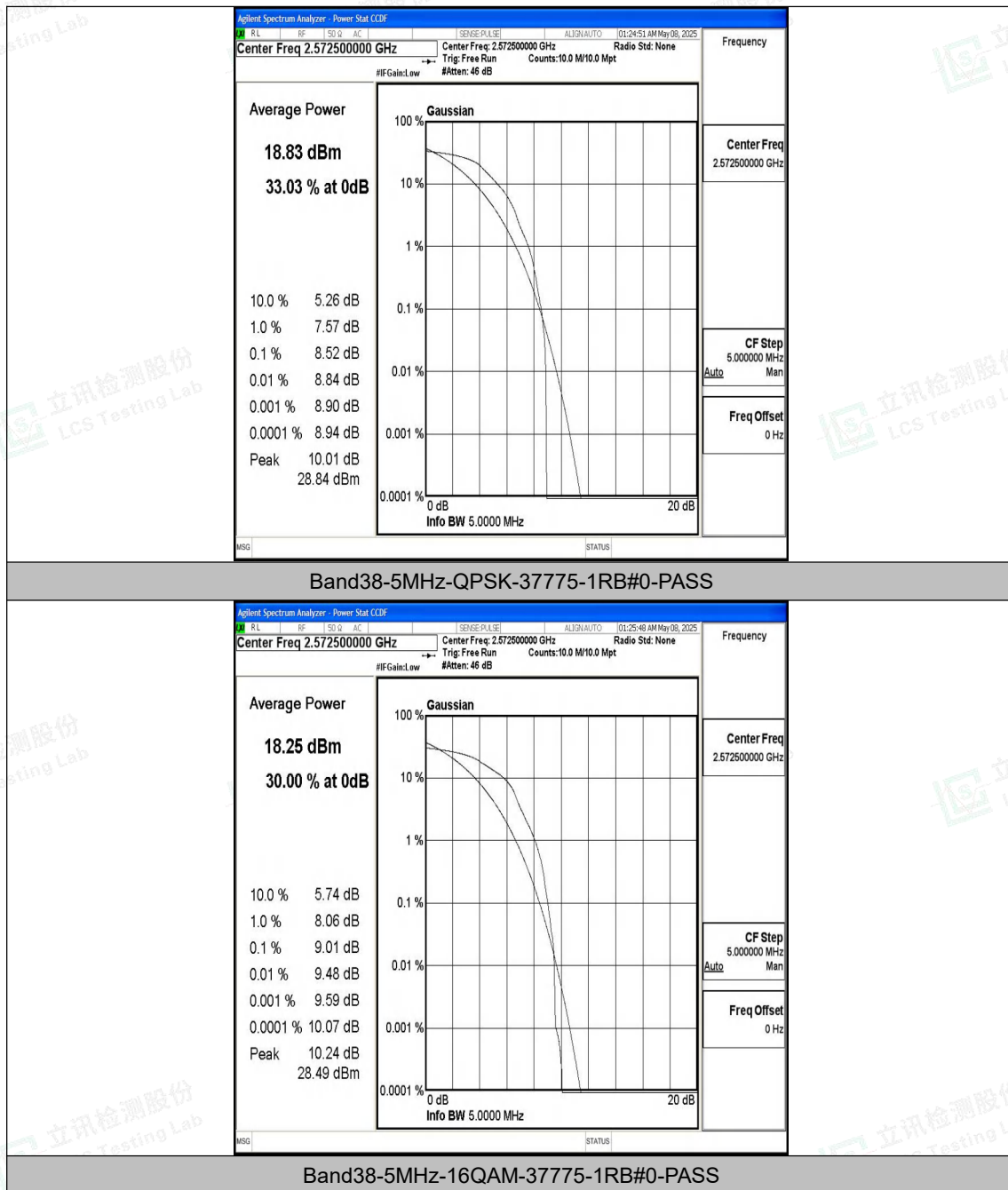


Band38	15MHz	QPSK	38175	75RB#0	9.42	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.77	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.25	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	8.84	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	8.97	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.74	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.28	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.96	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.08	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.90	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	9.15	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.25	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.02	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.76	13	PASS





Test Graphs

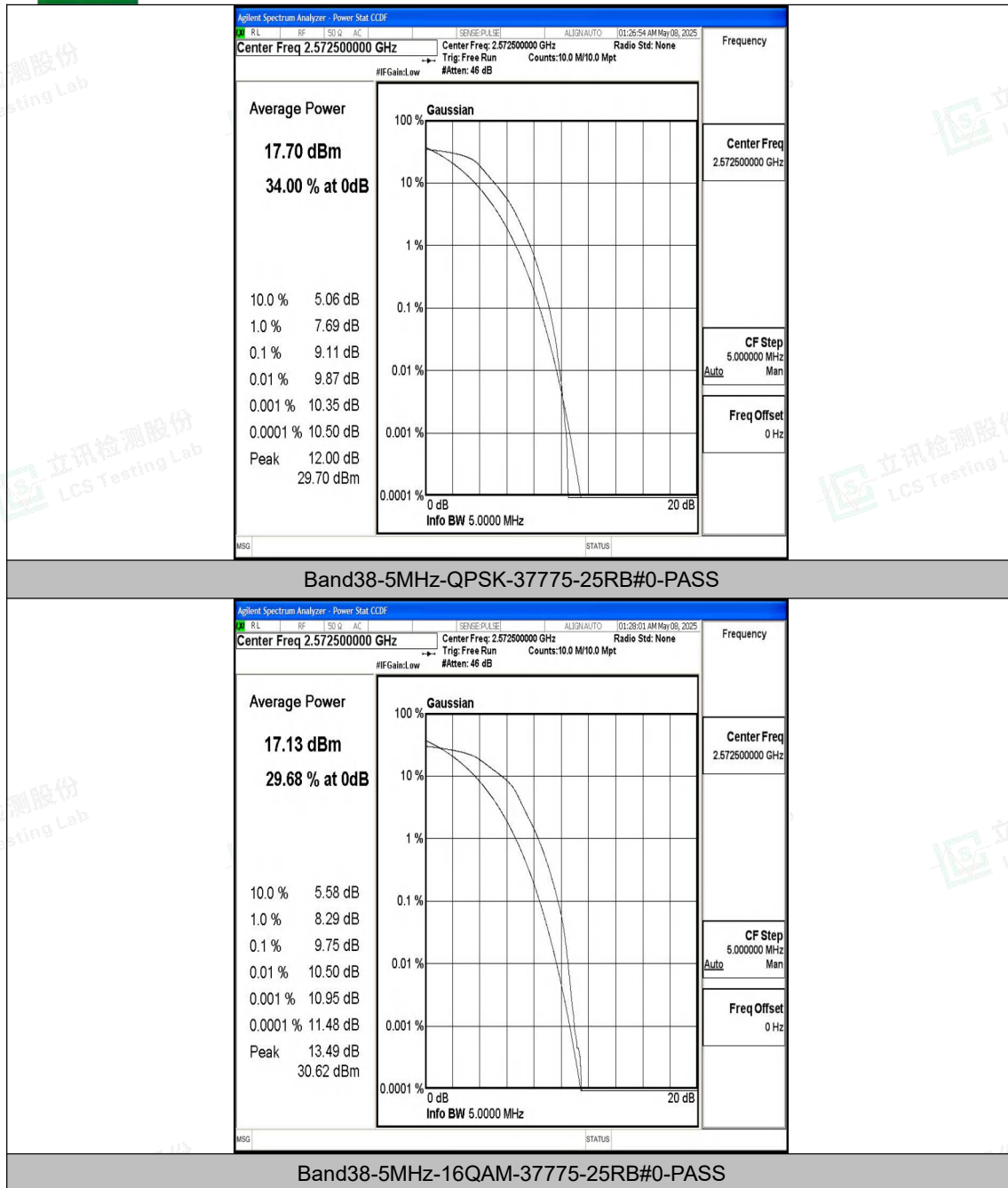


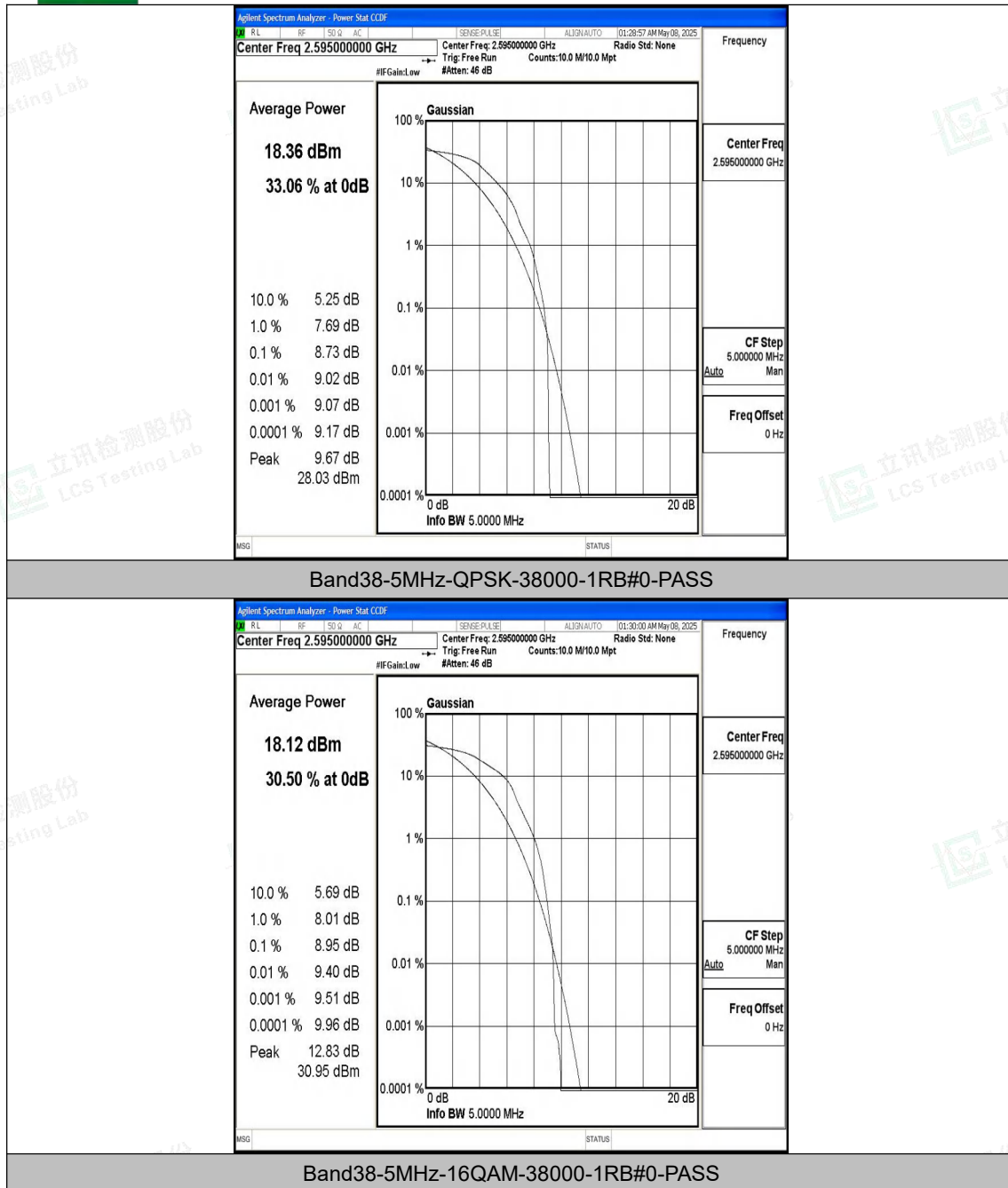
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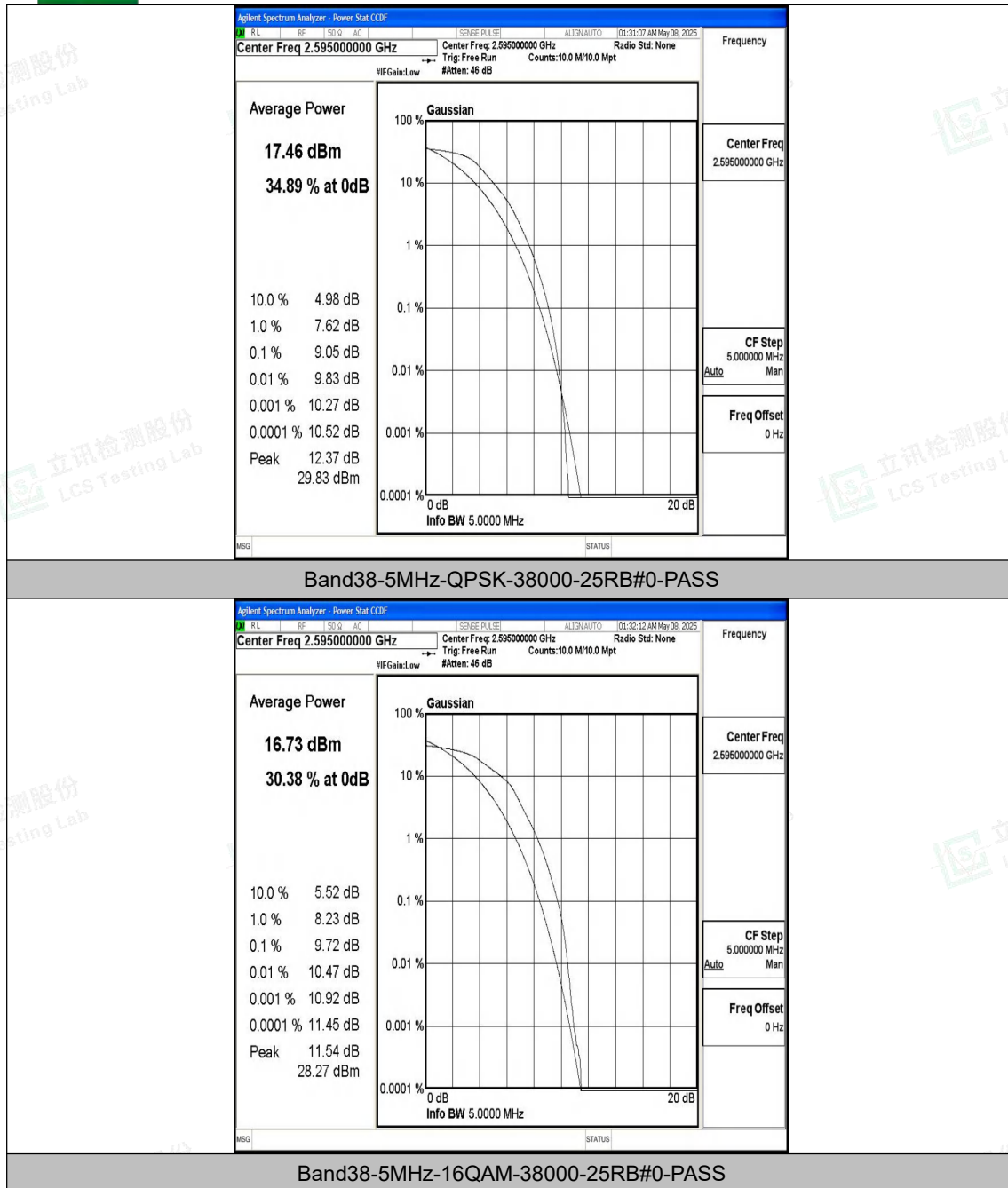


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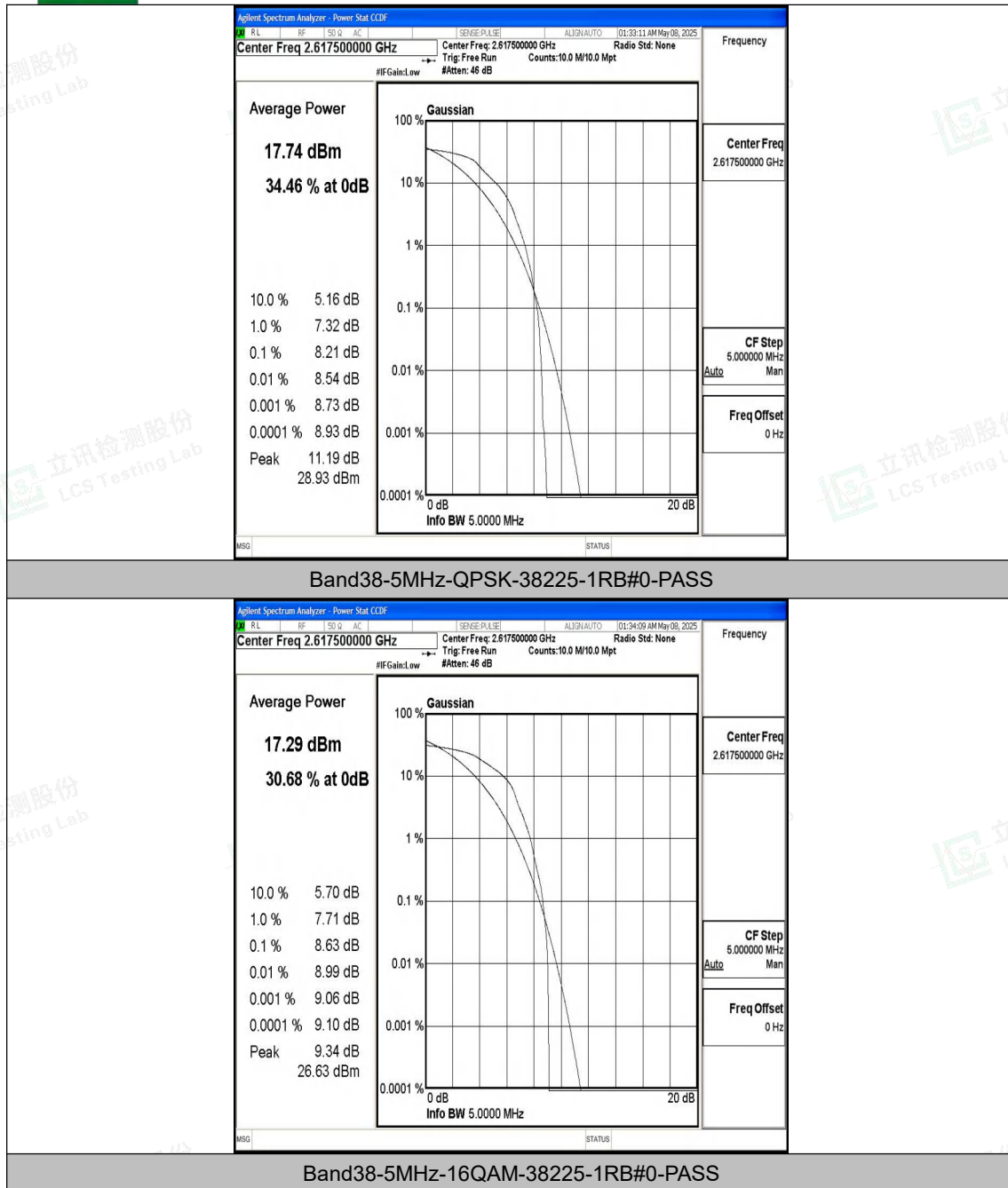


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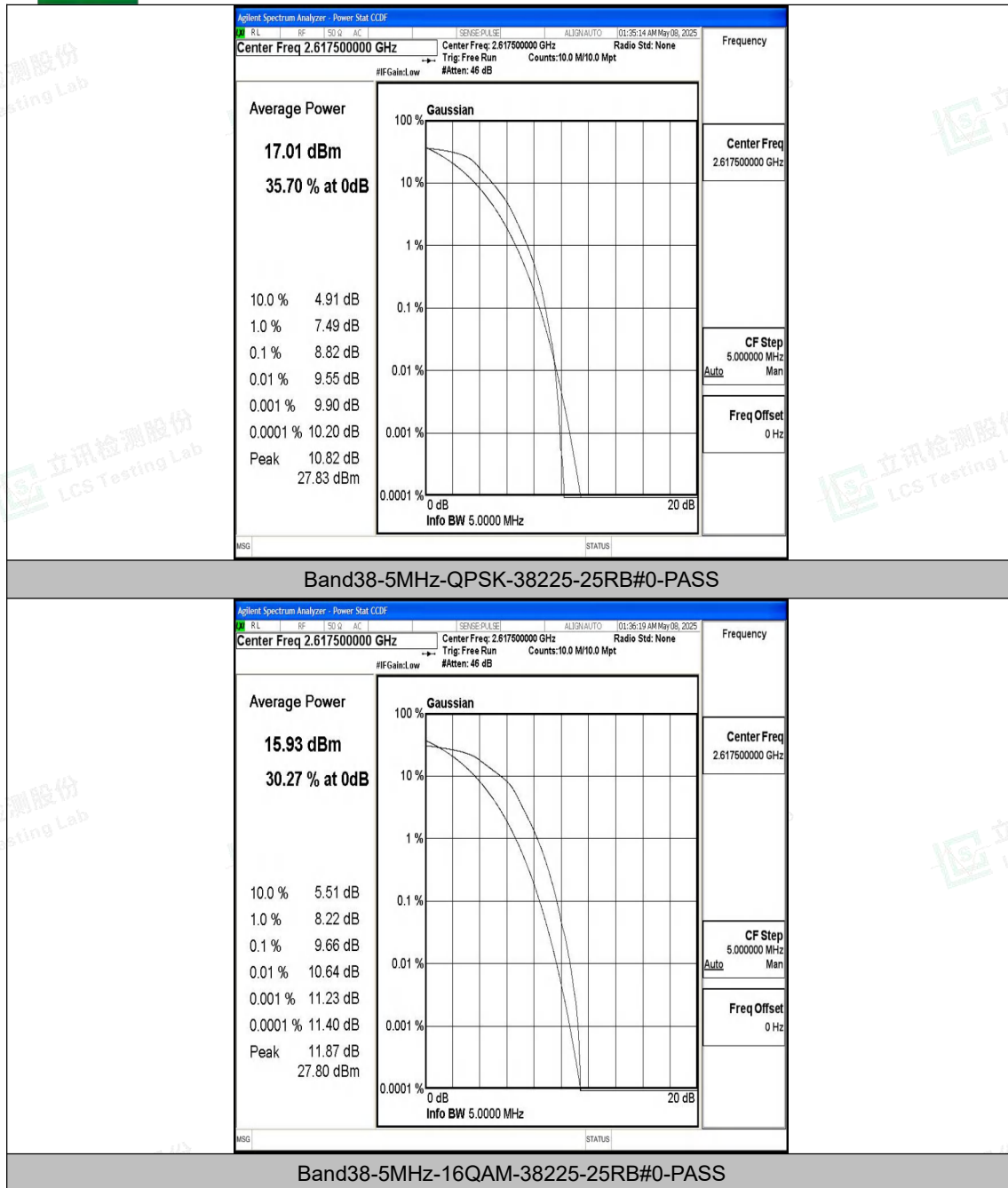


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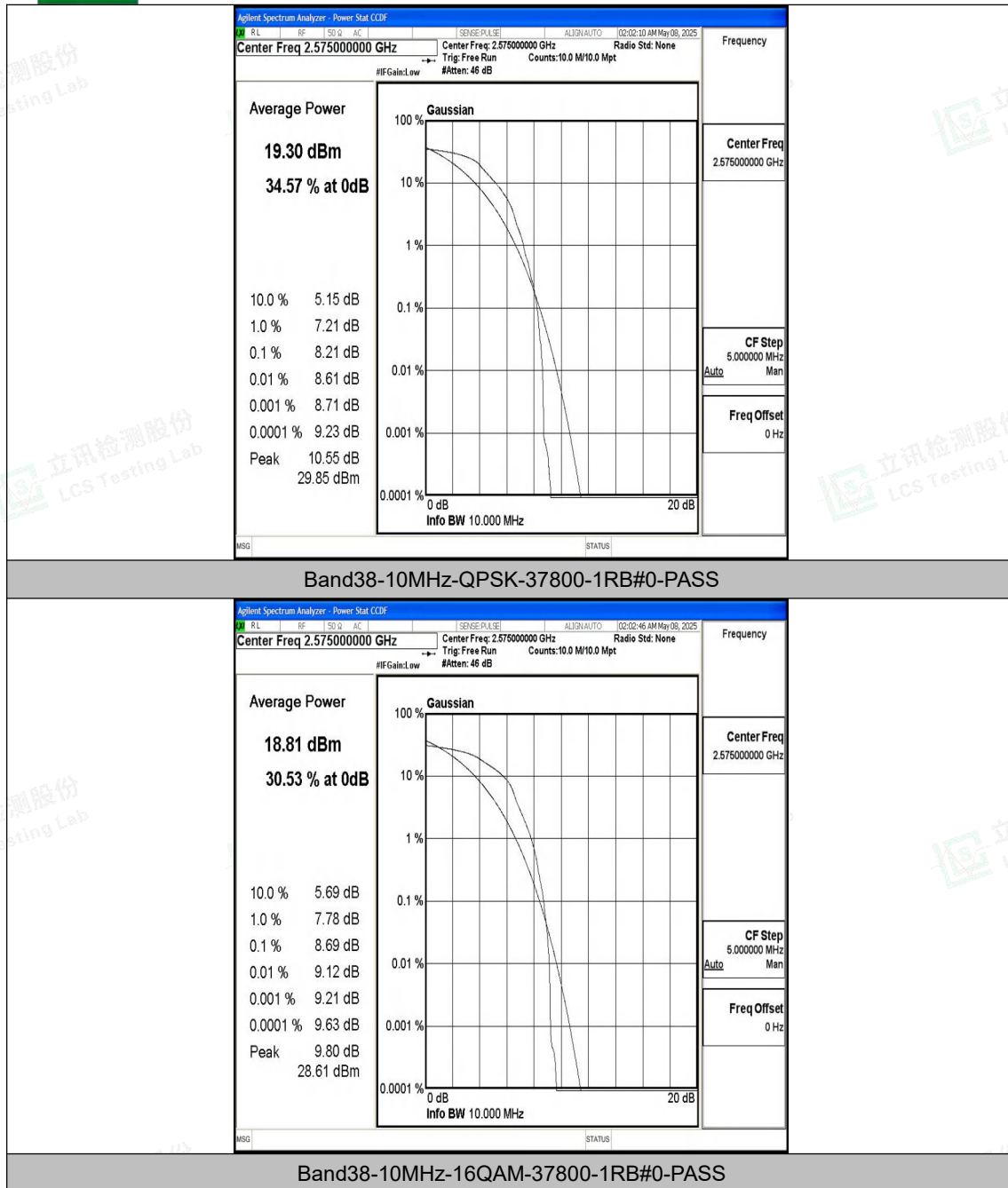


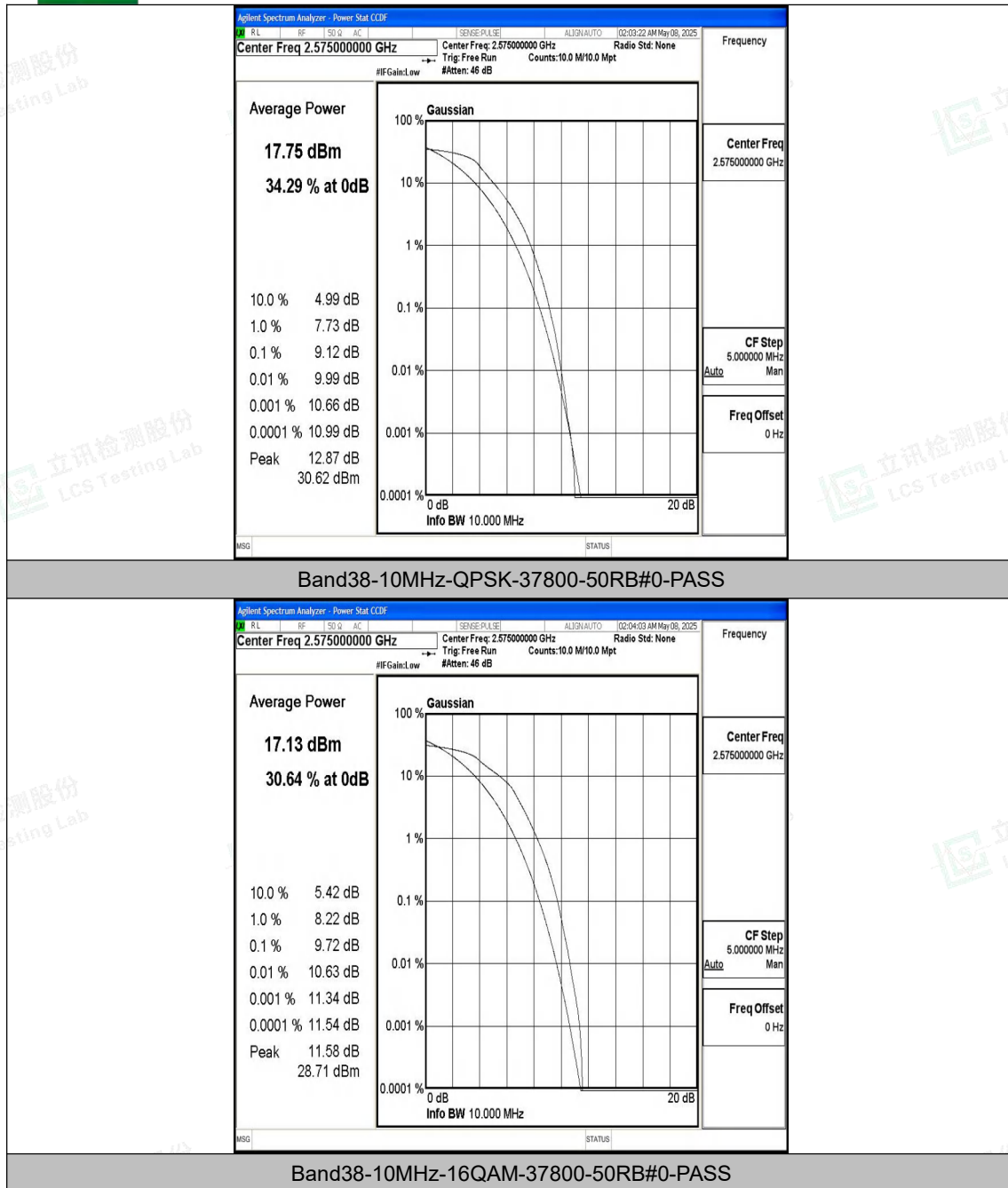
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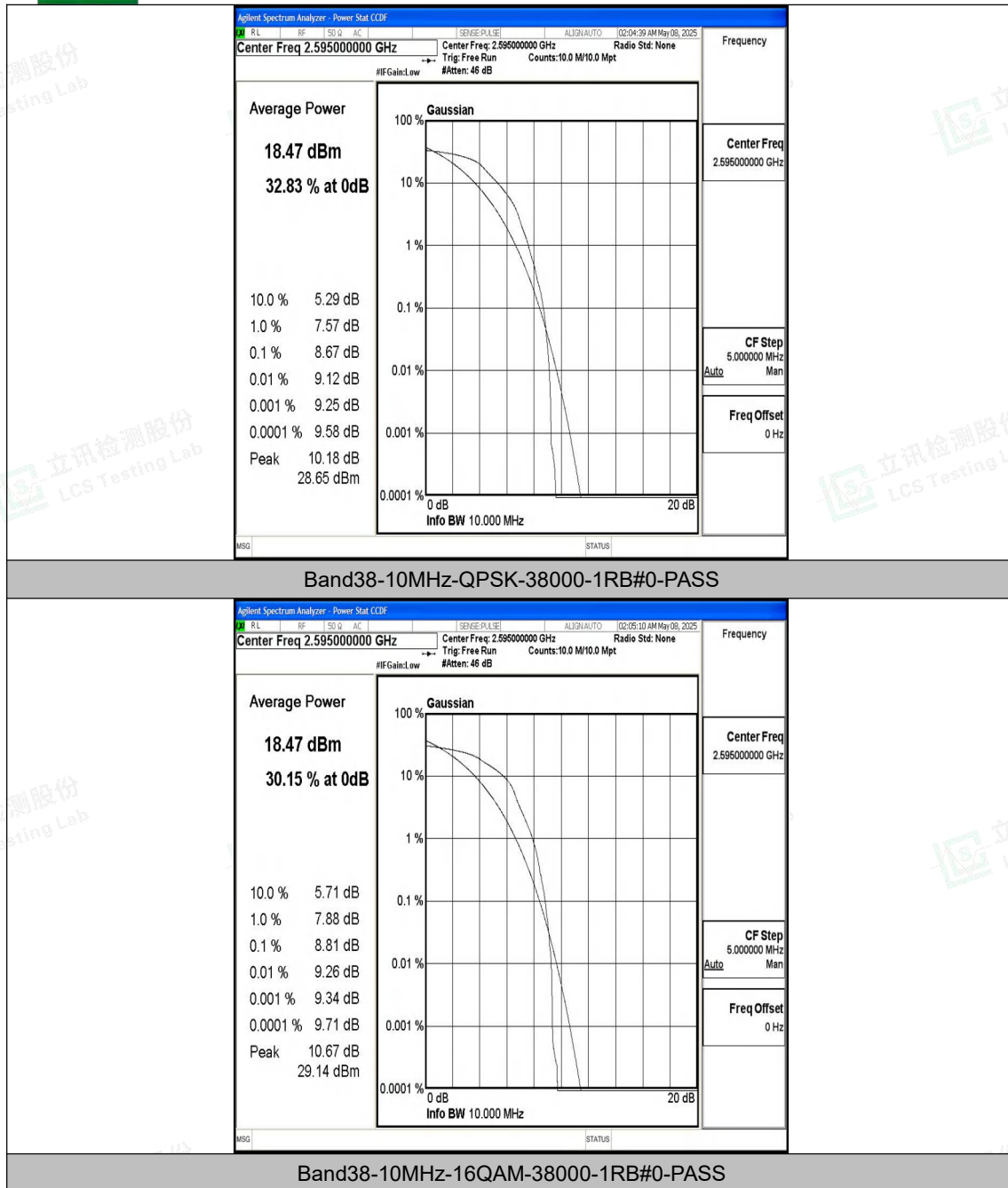


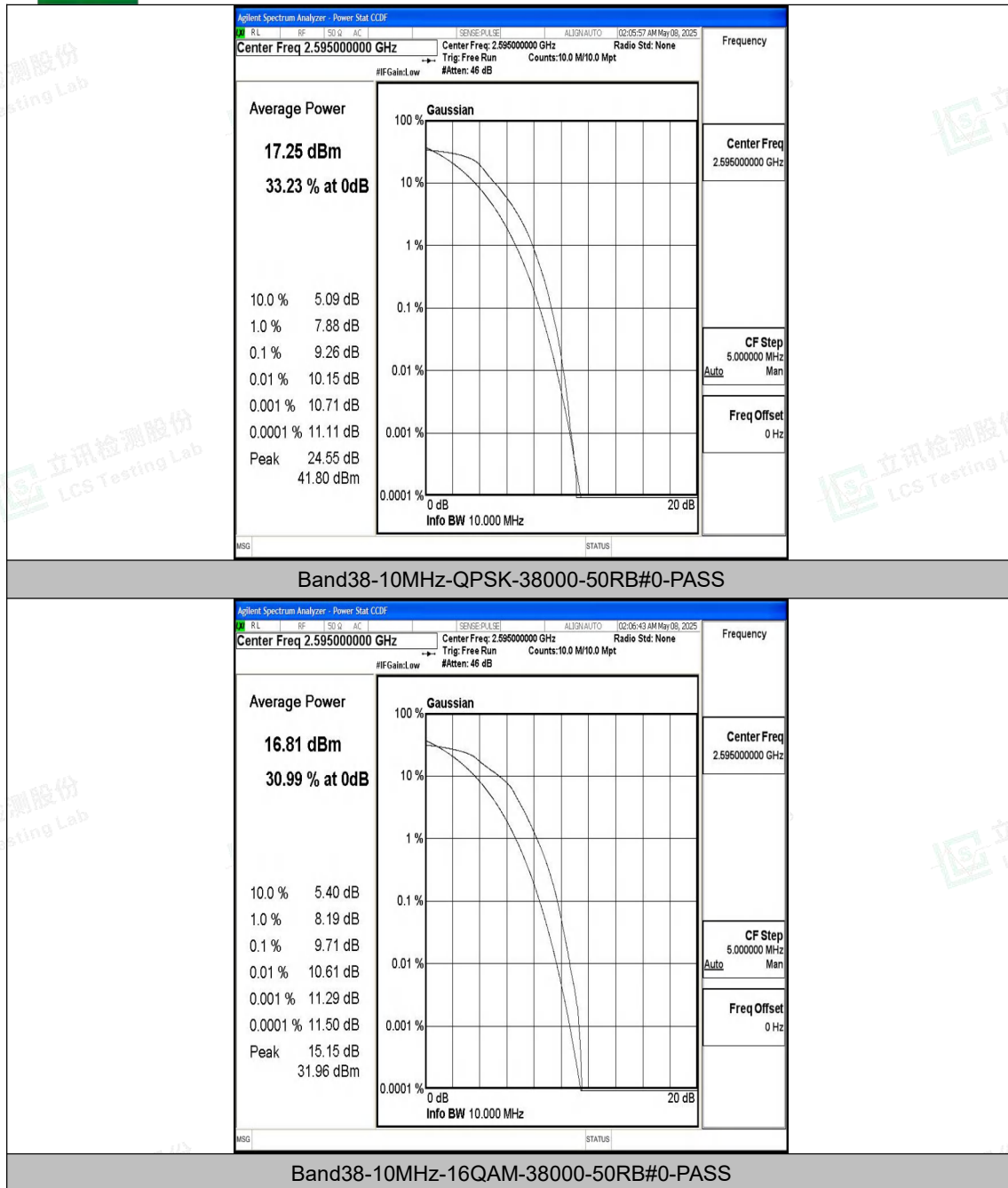
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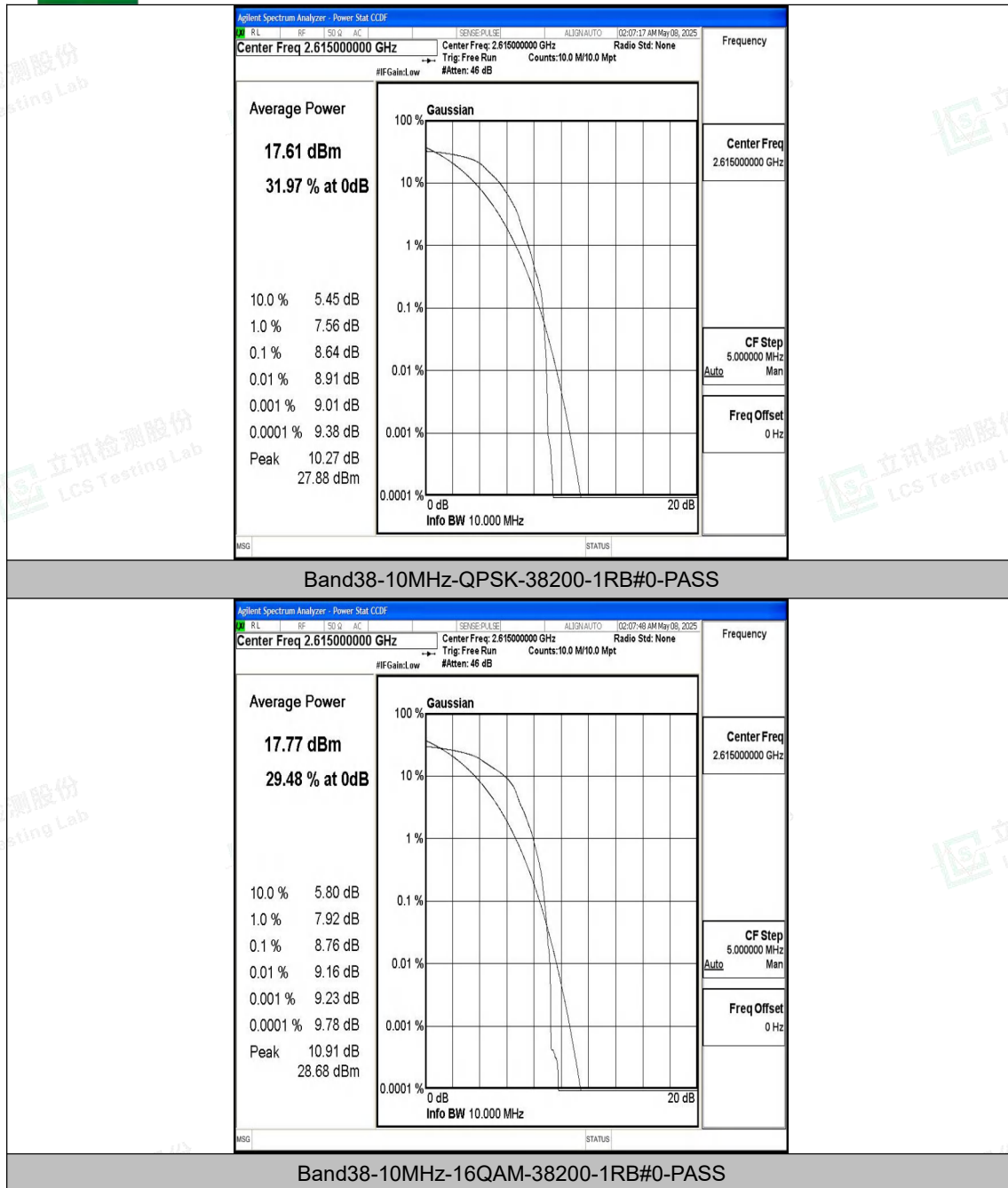


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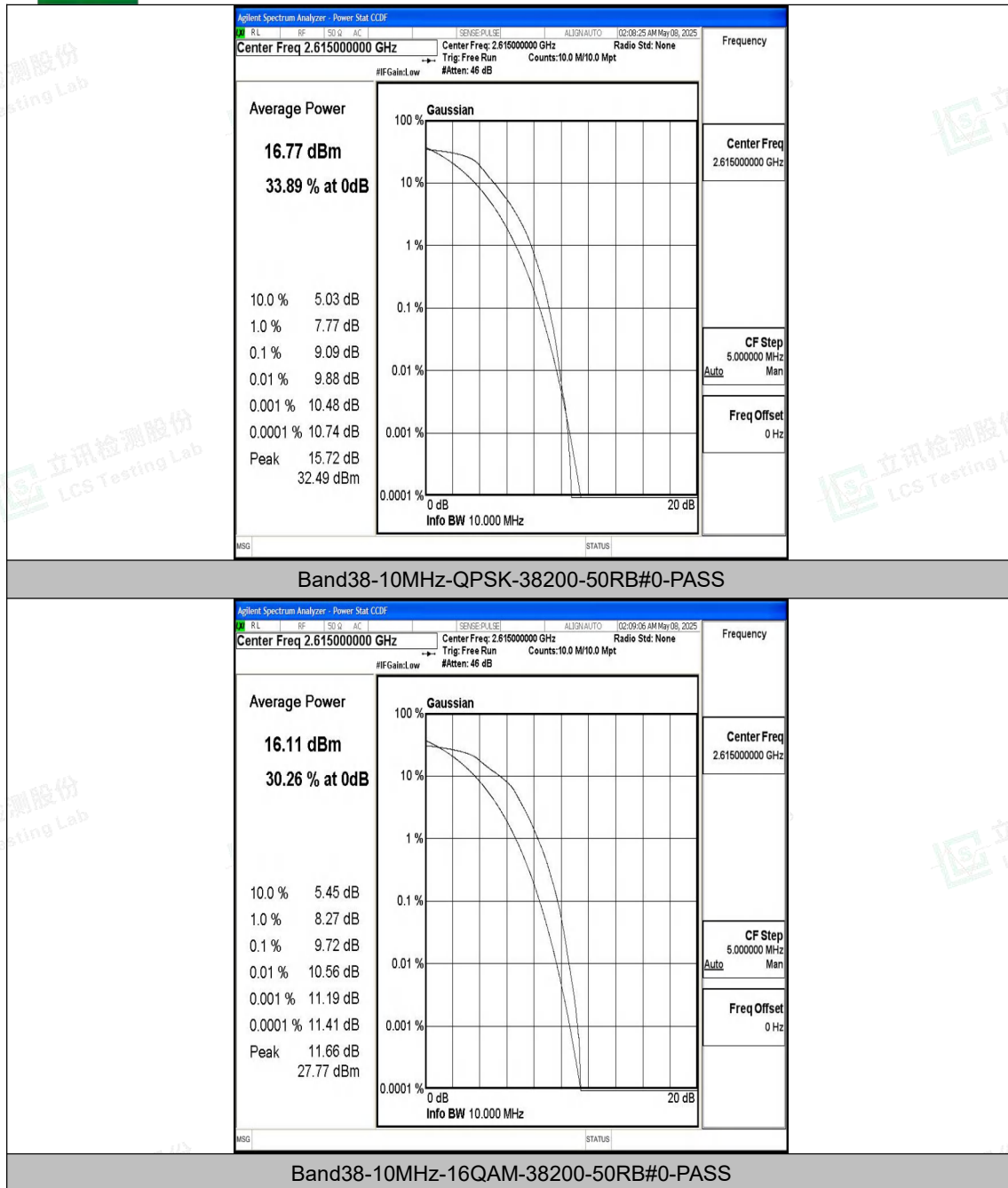


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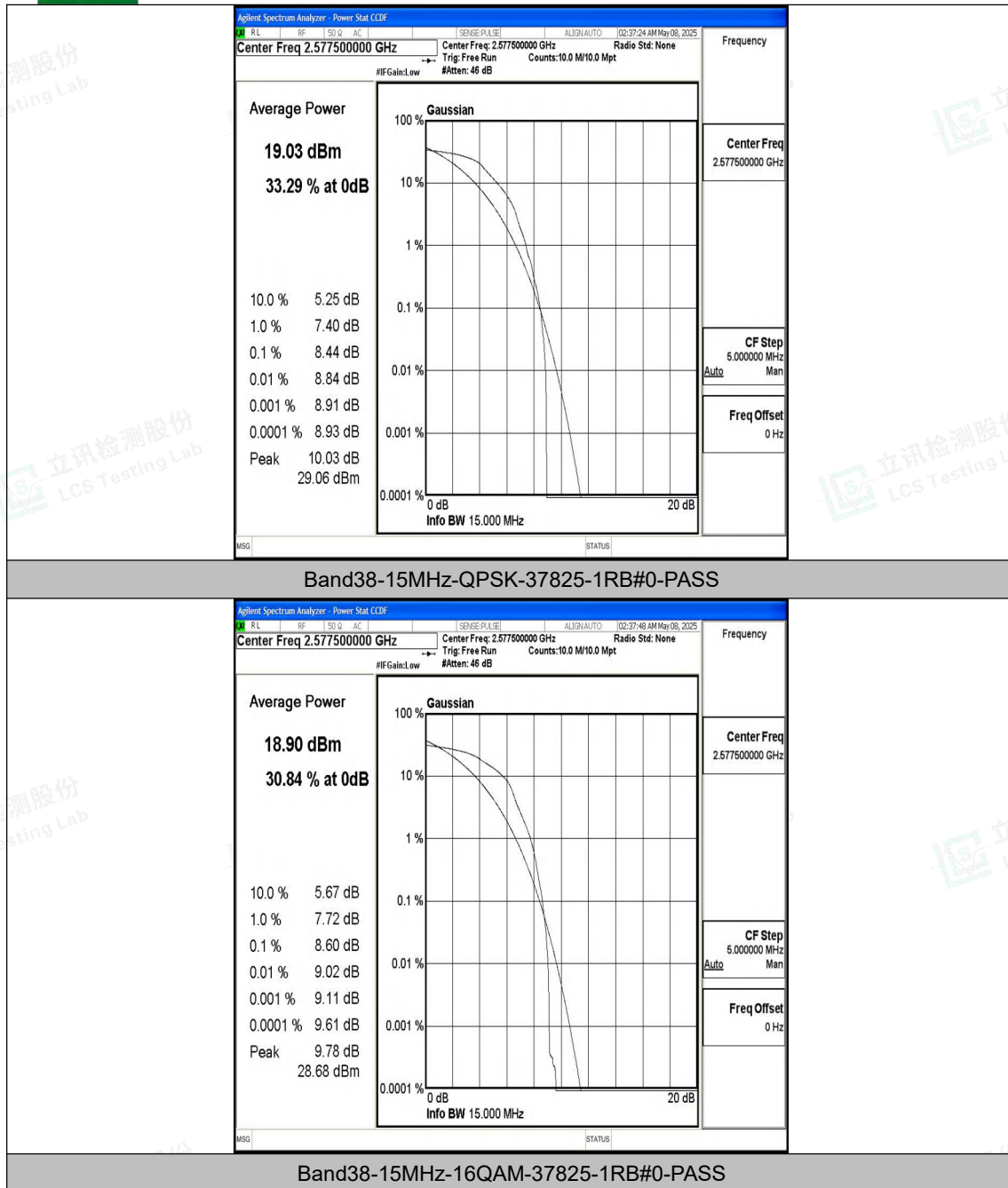


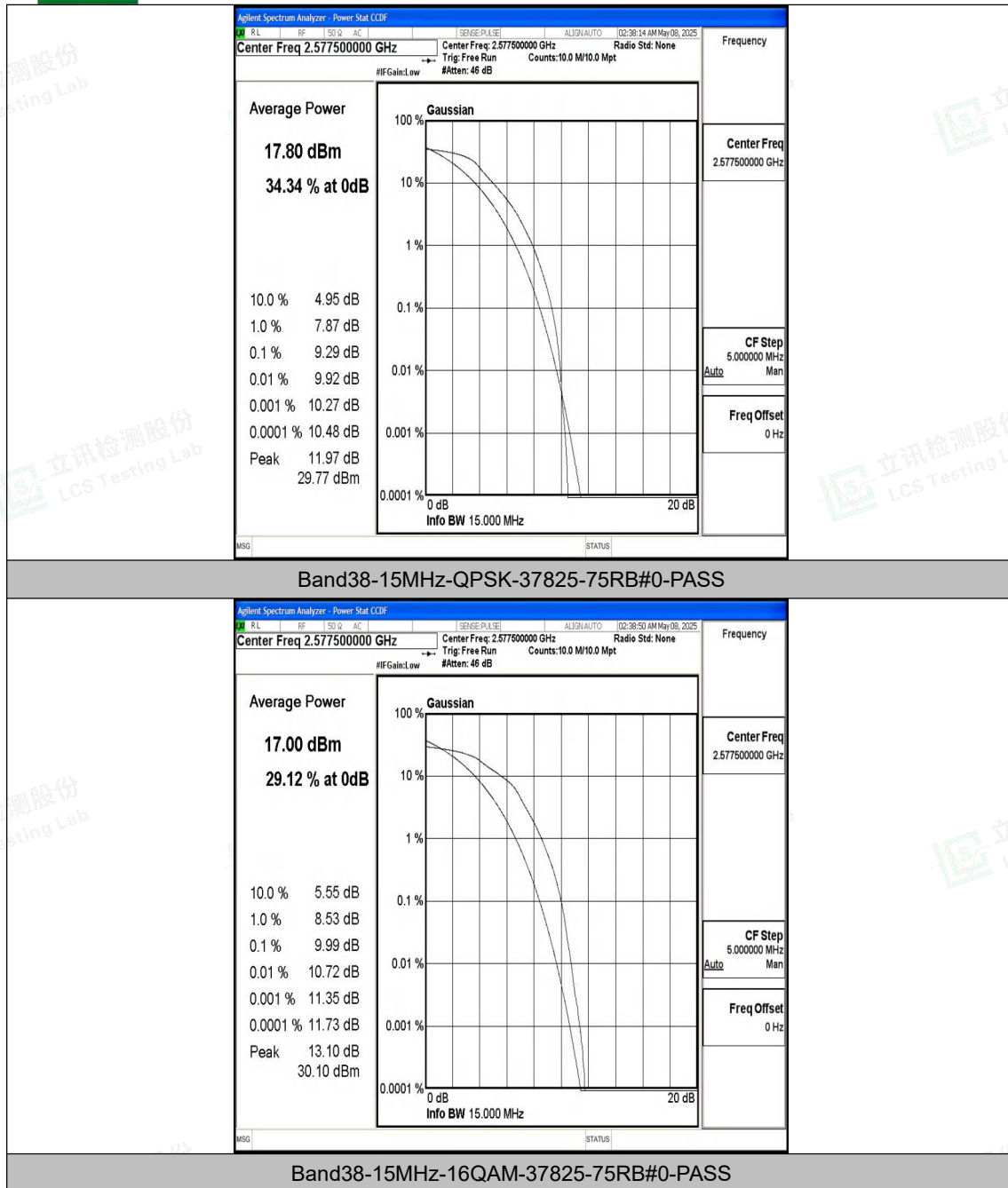
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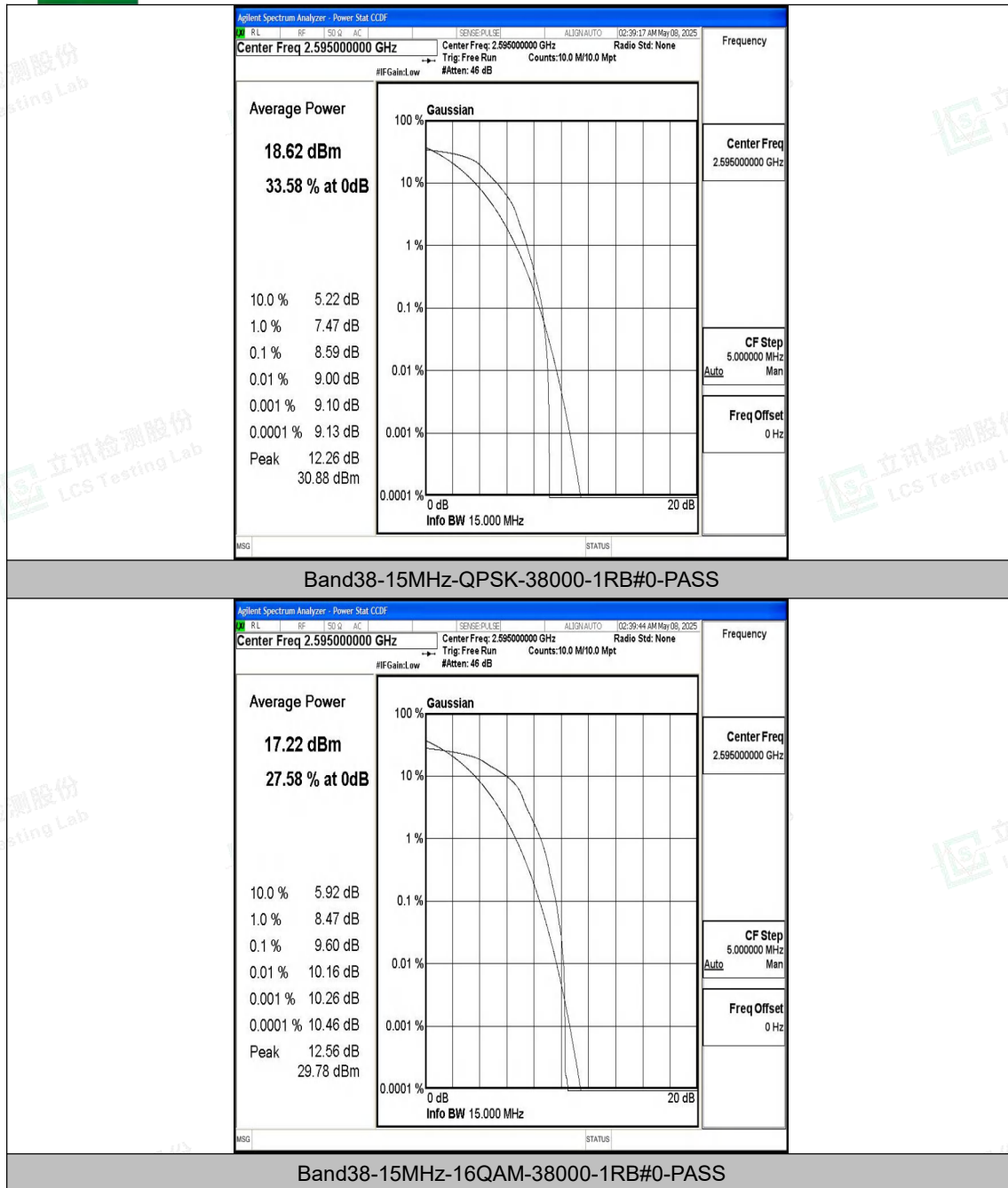


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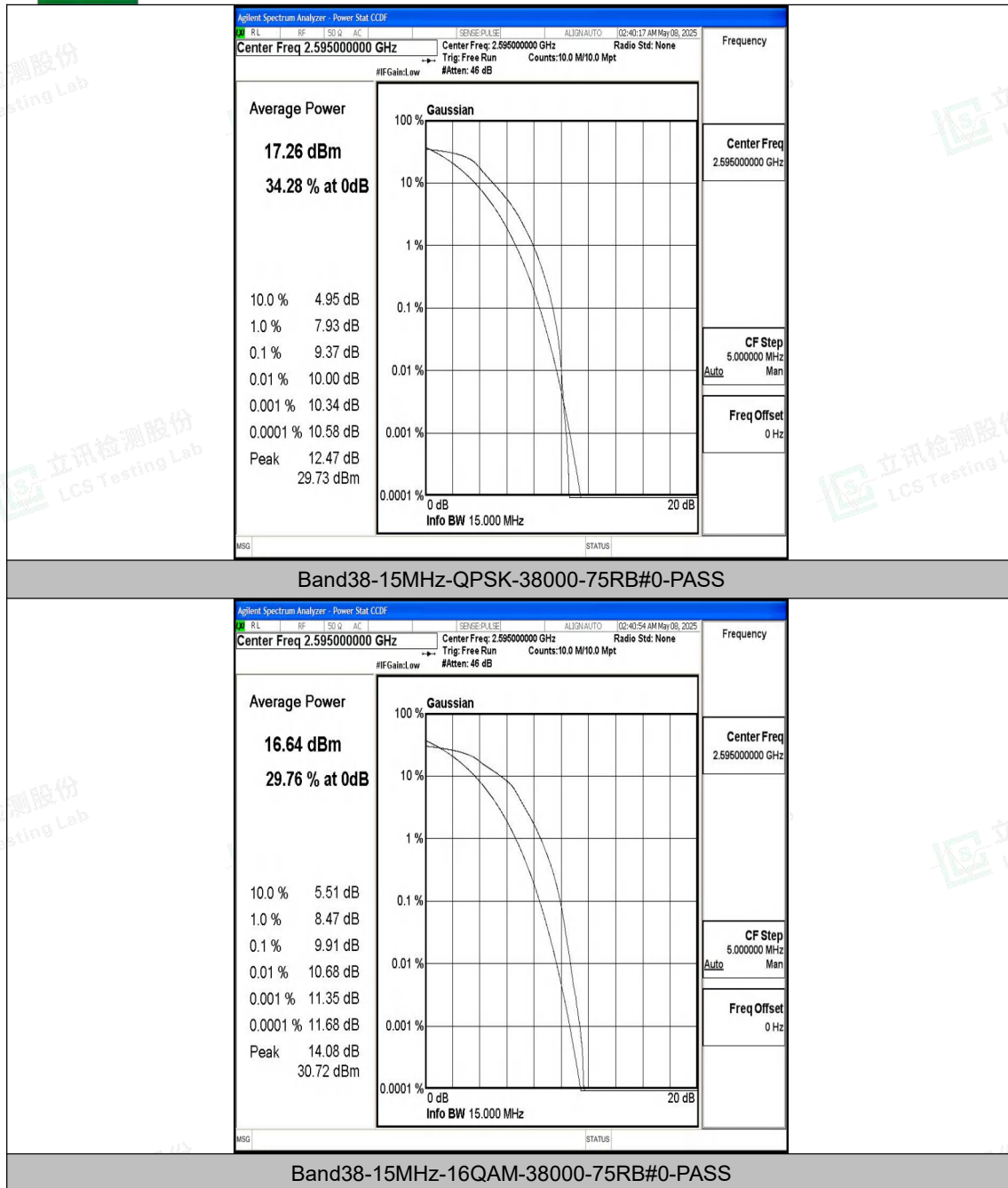


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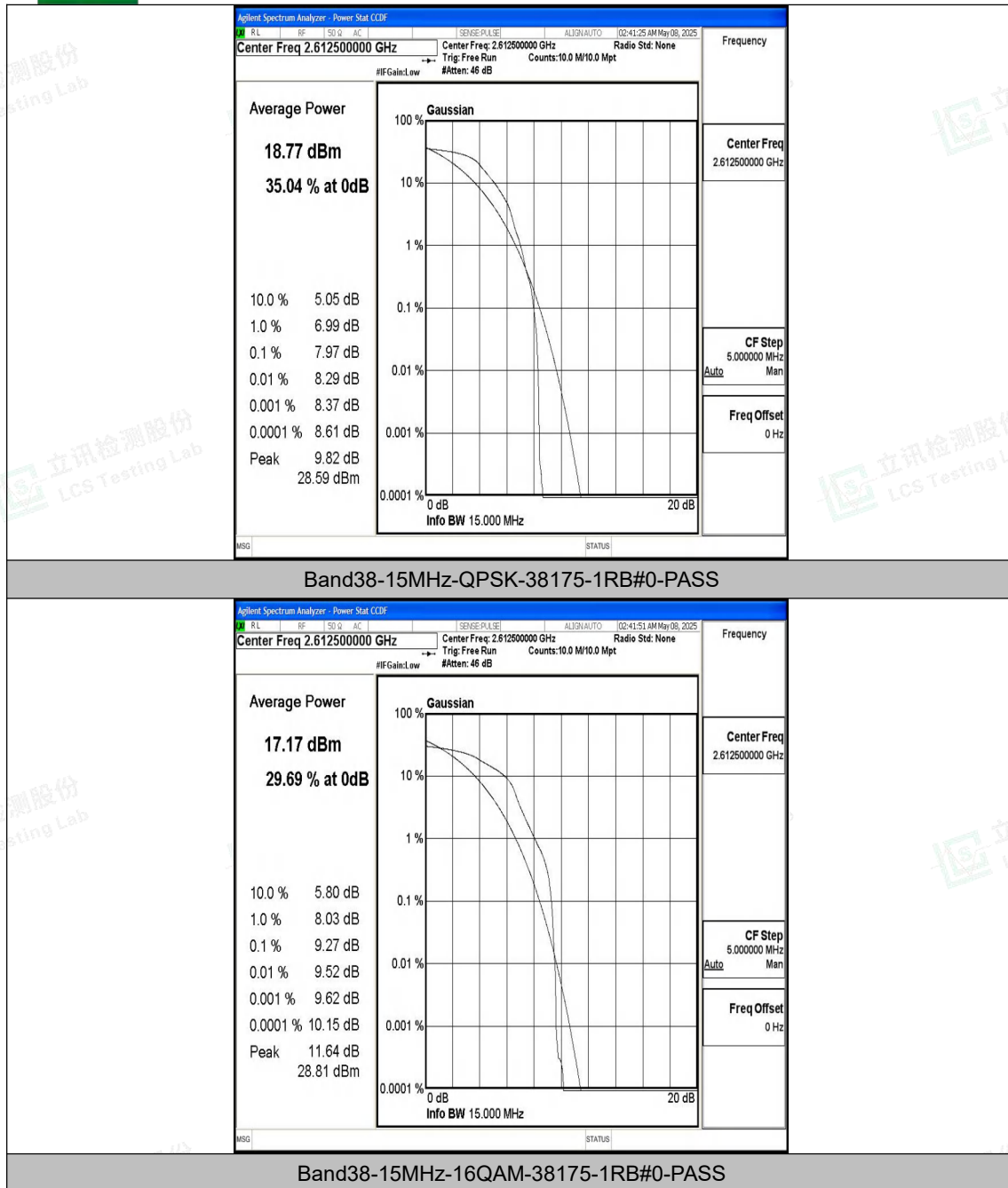


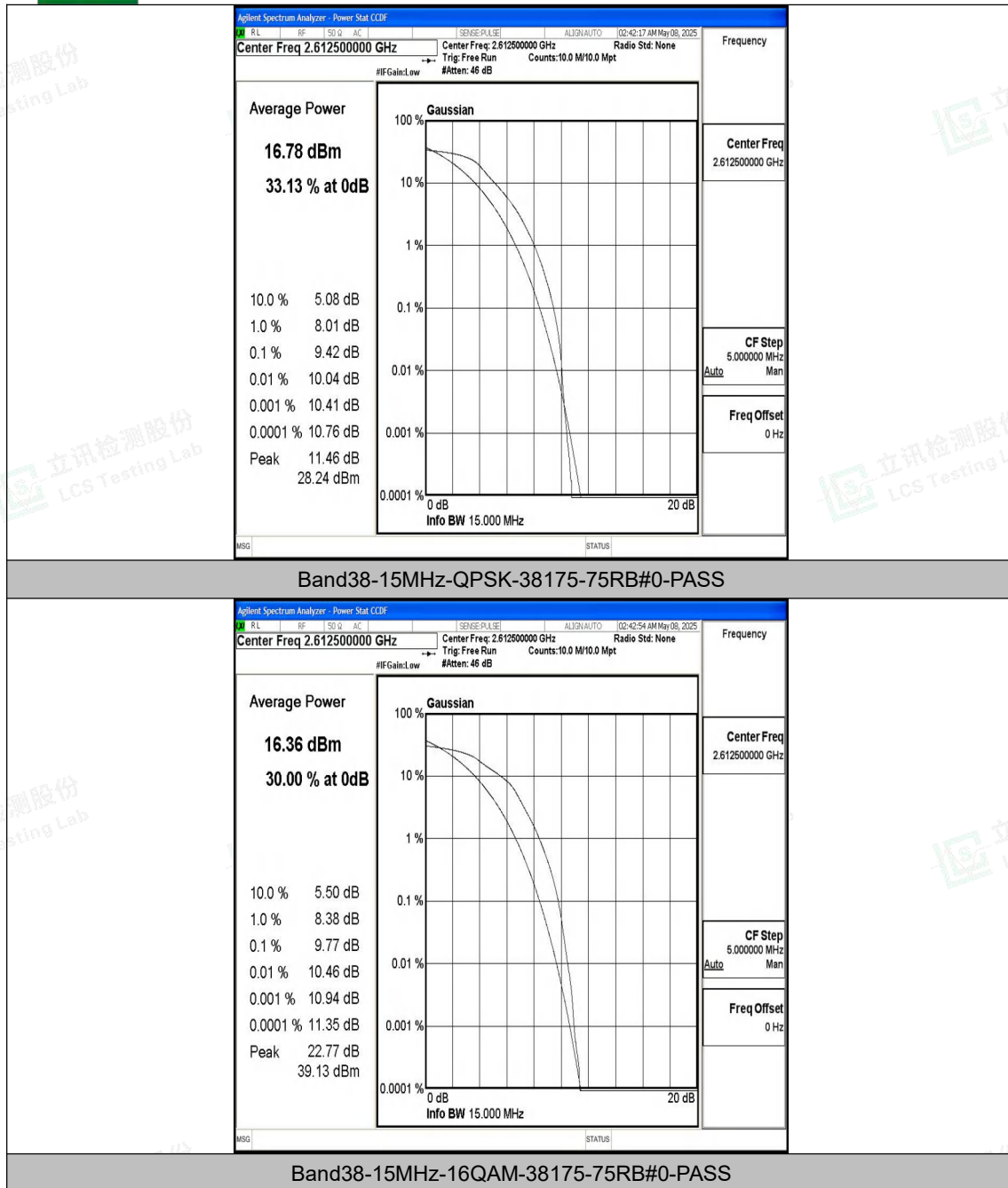
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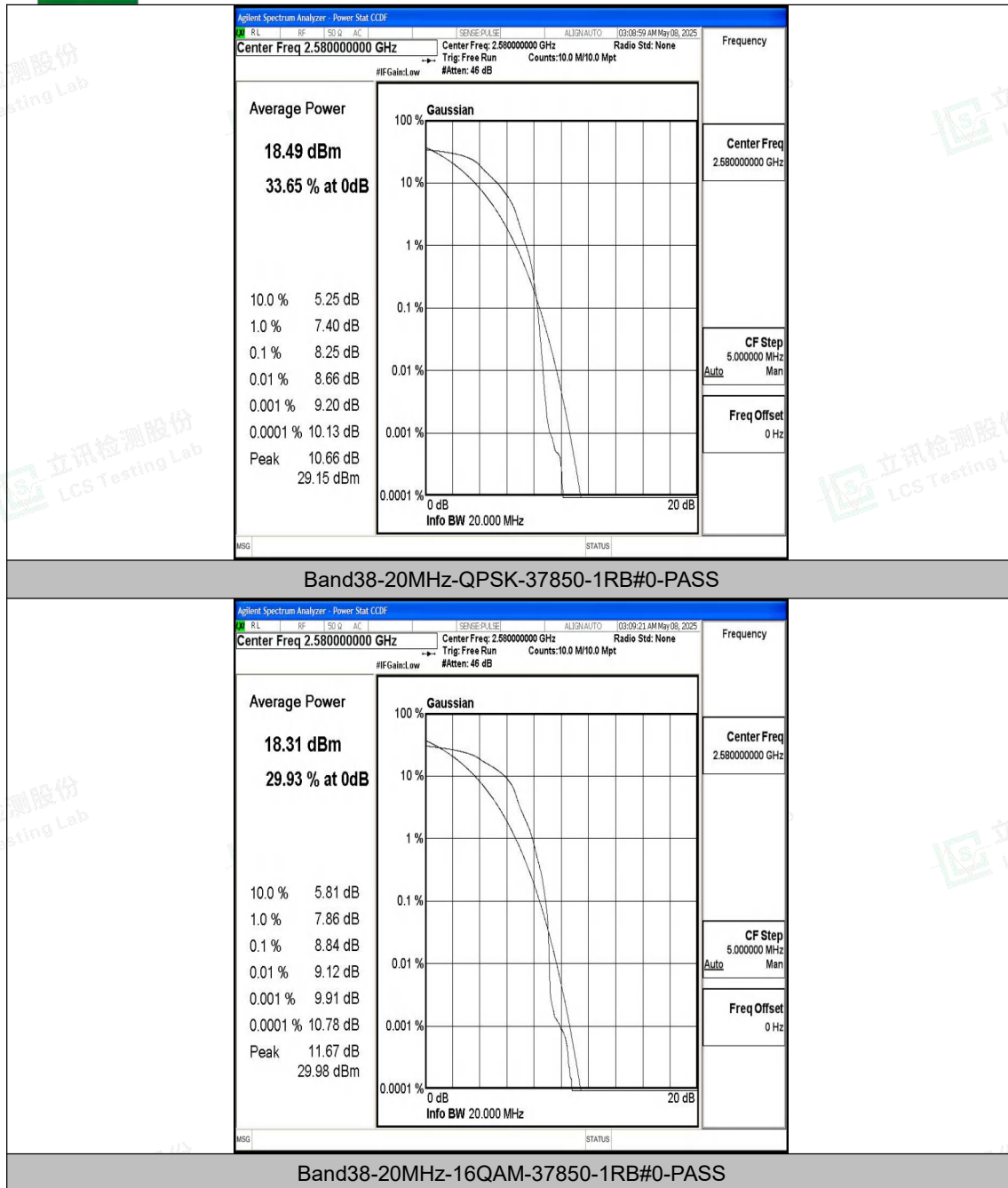
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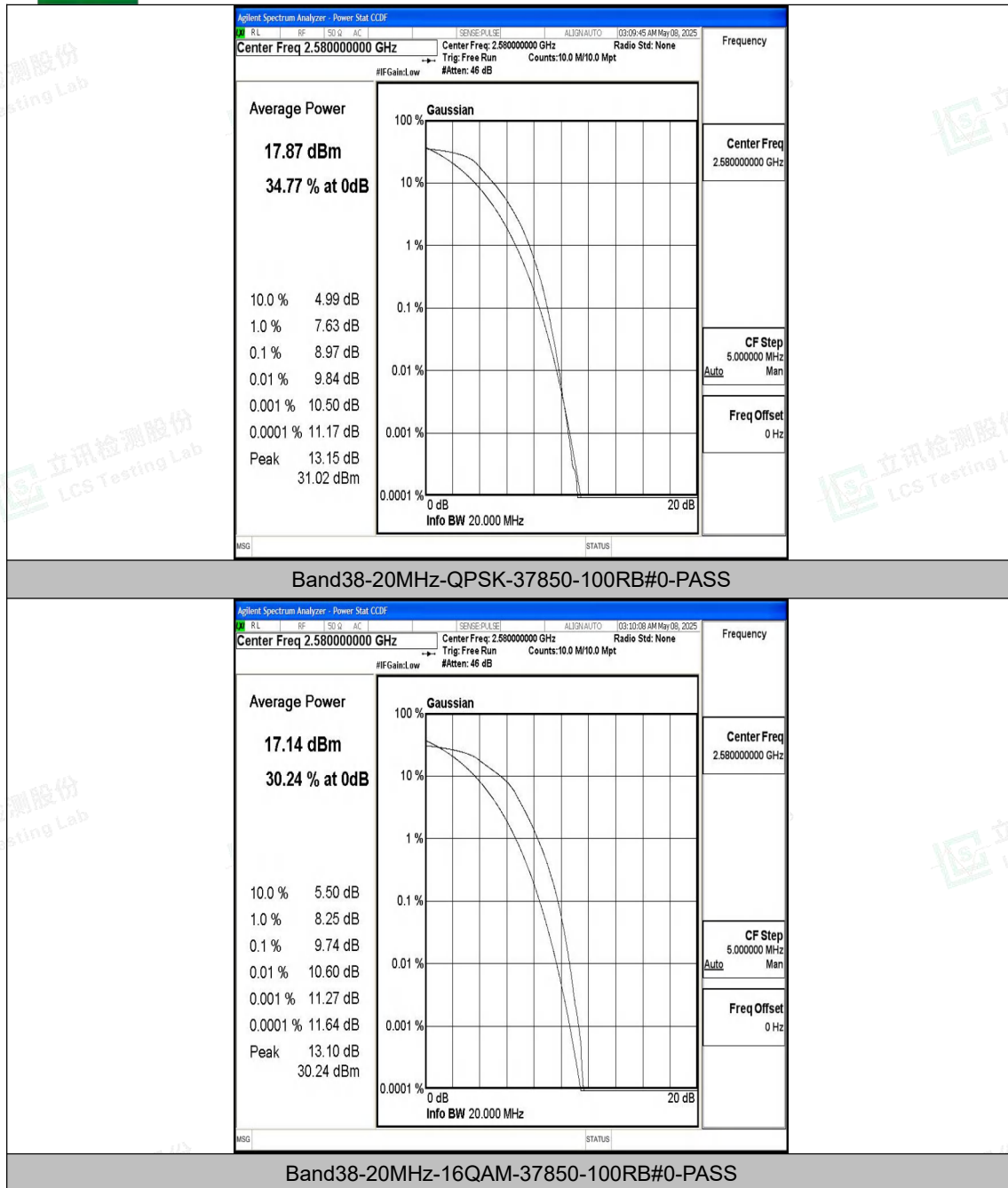


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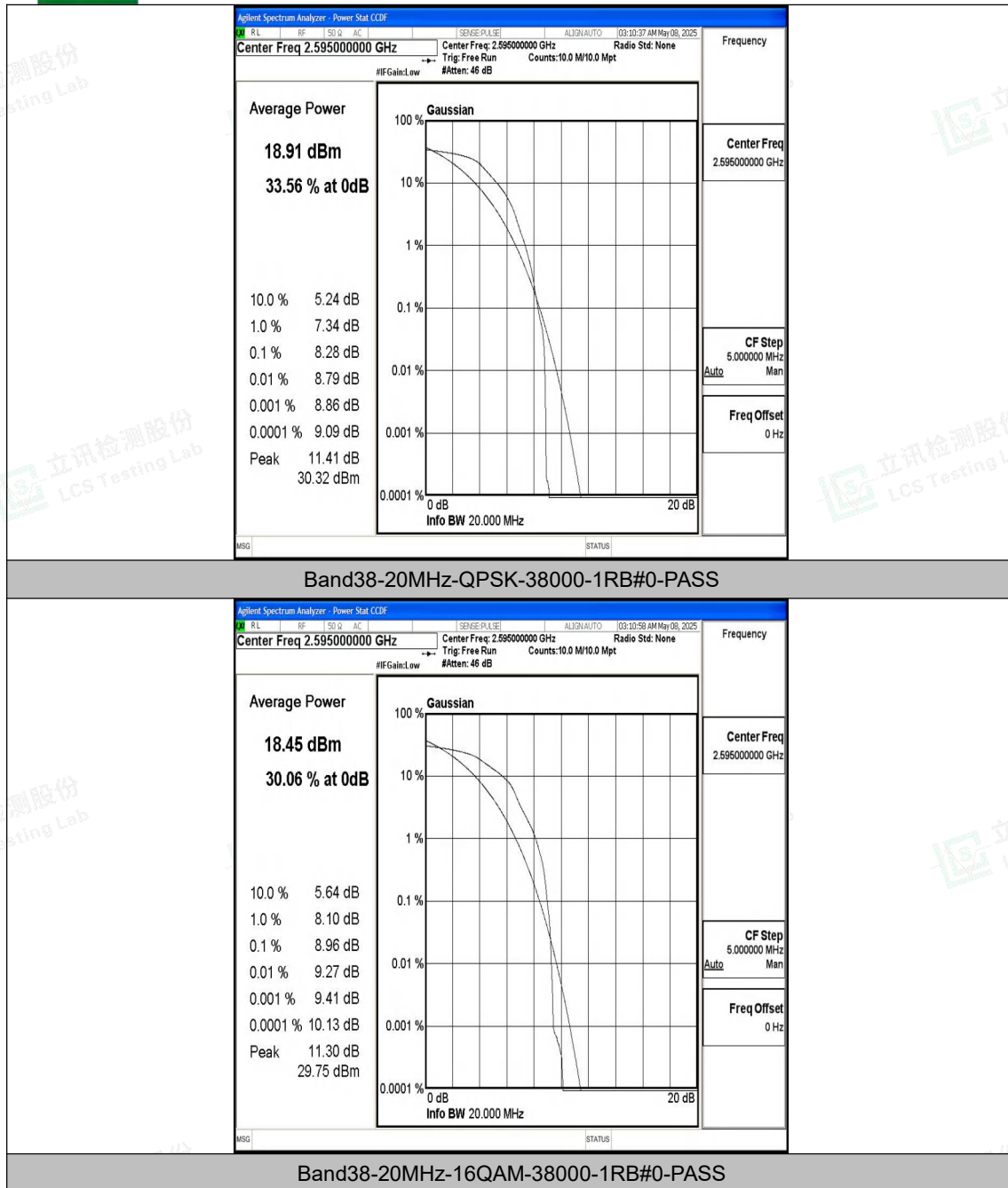


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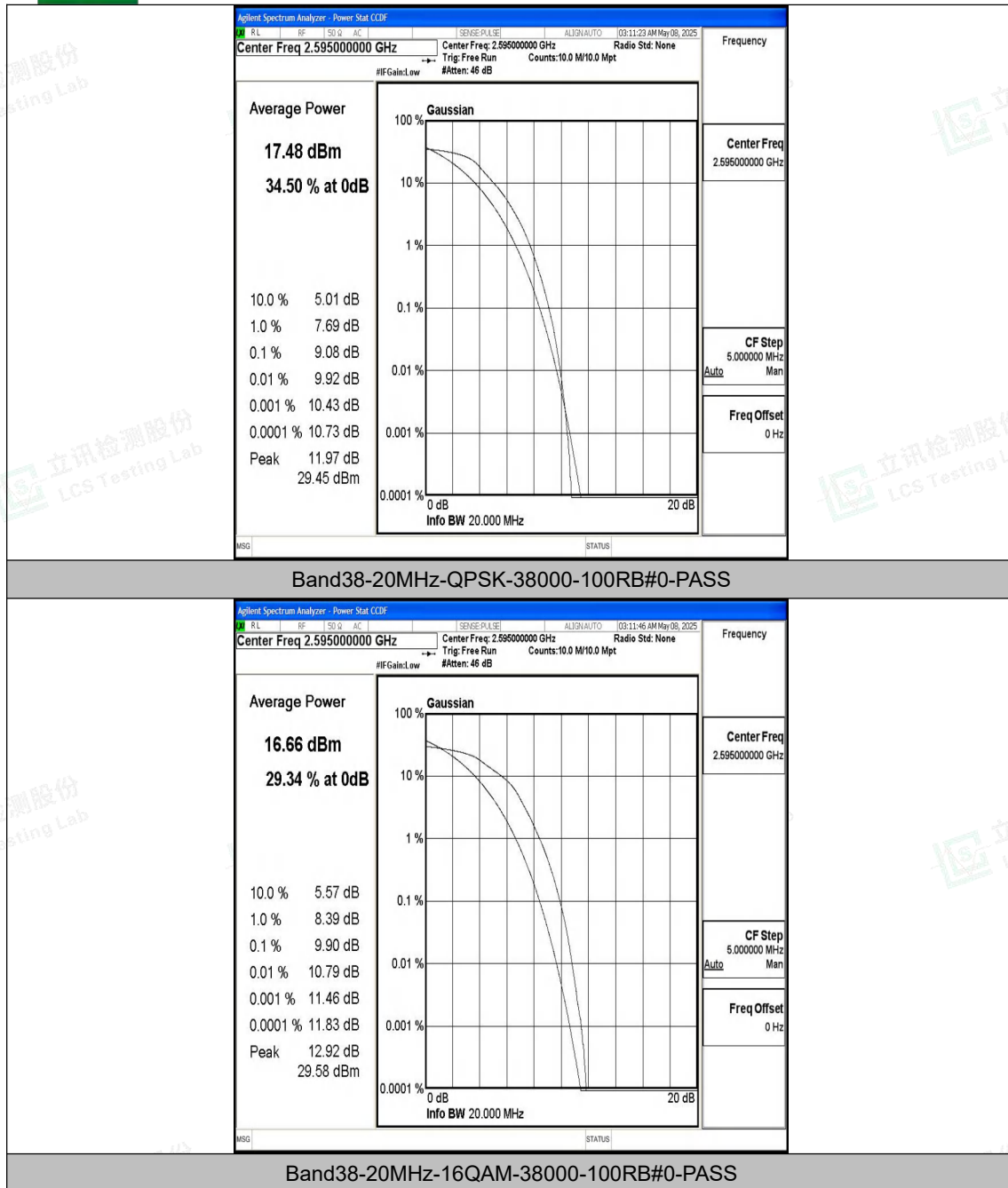


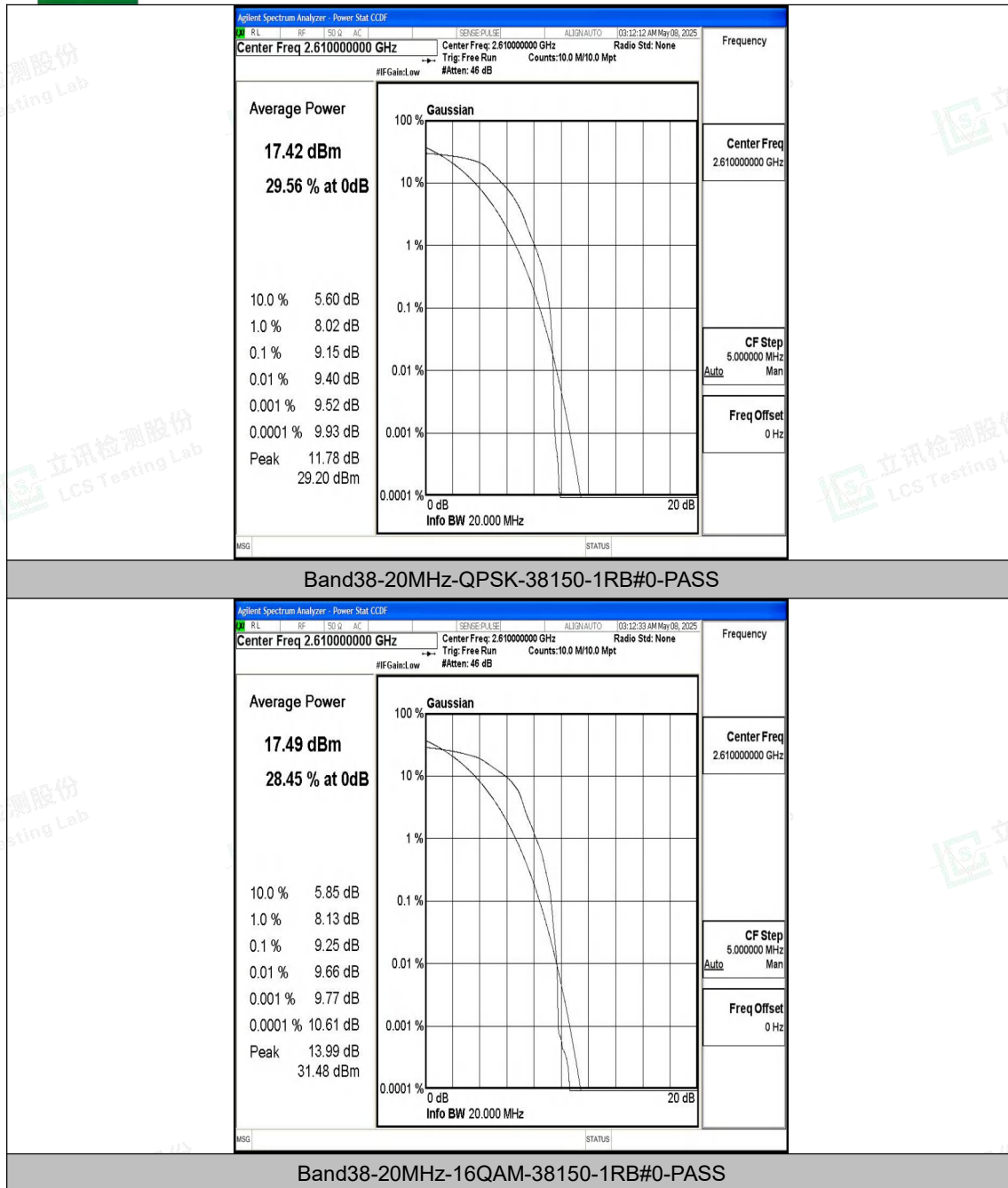
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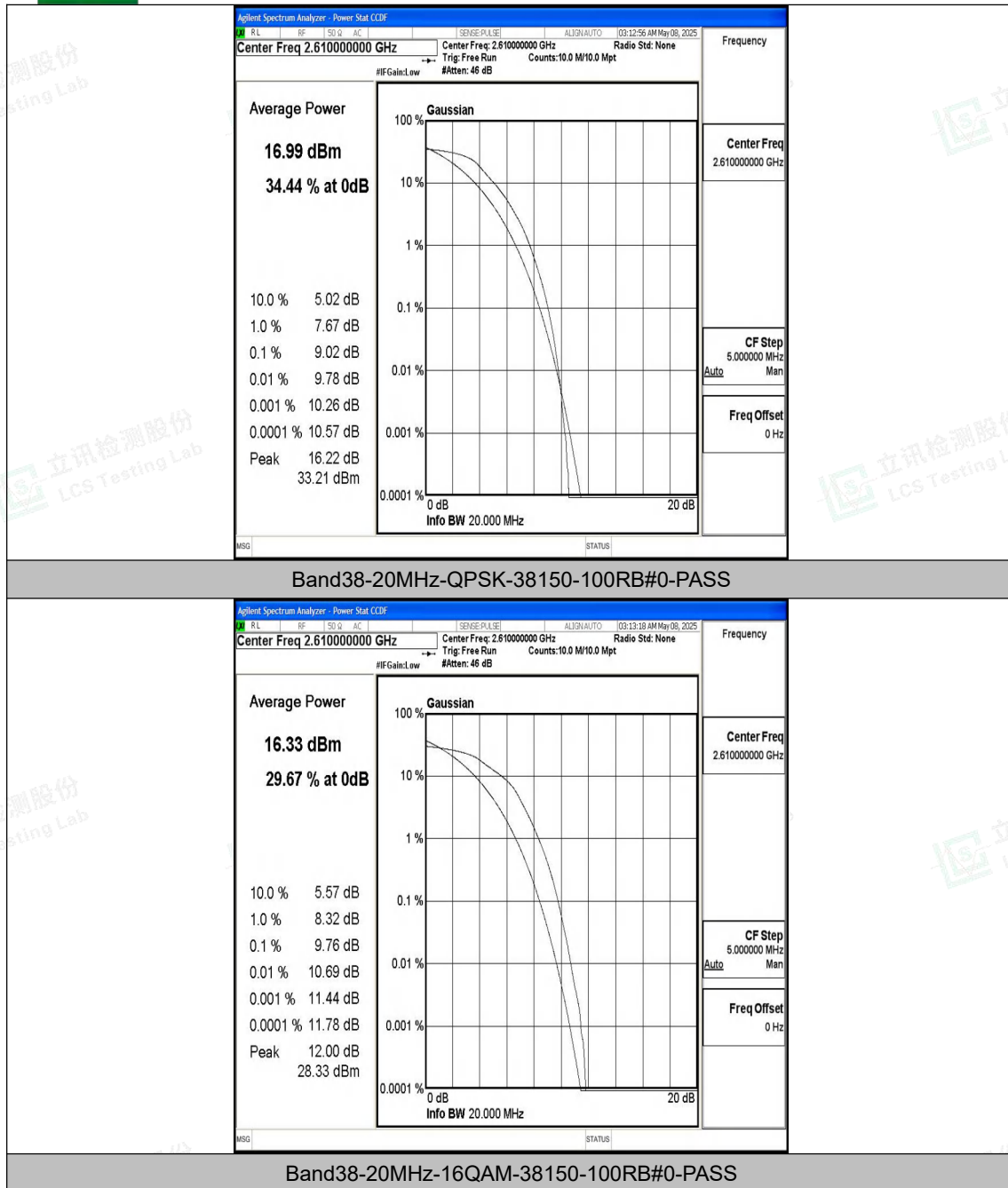


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J.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5229	5.205	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5230	5.378	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5063	5.183	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5212	5.427	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4998	5.252	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4920	5.256	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.0005	10.13	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9813	10.19	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0119	10.08	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9944	9.851	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0341	10.15	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0211	10.88	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.515	15.05	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.514	15.11	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.464	15.73	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.468	15.47	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.442	15.83	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.512	16.06	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.986	20.05	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.998	20.44	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.957	20.62	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.011	20.58	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.956	19.88	PASS
Band38	20MHz	16QAM	38150	100RB#0	18.010	20.65	PASS



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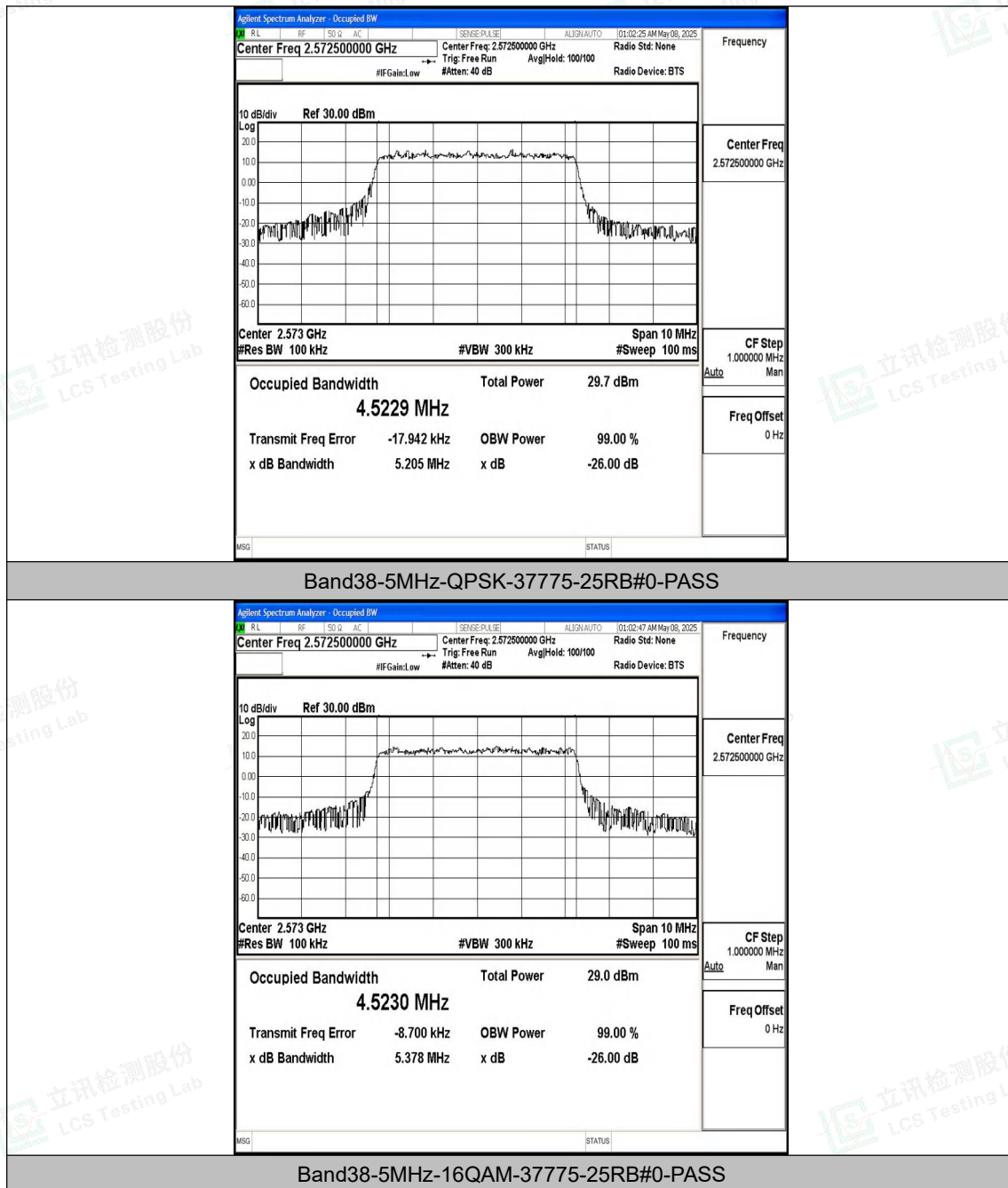
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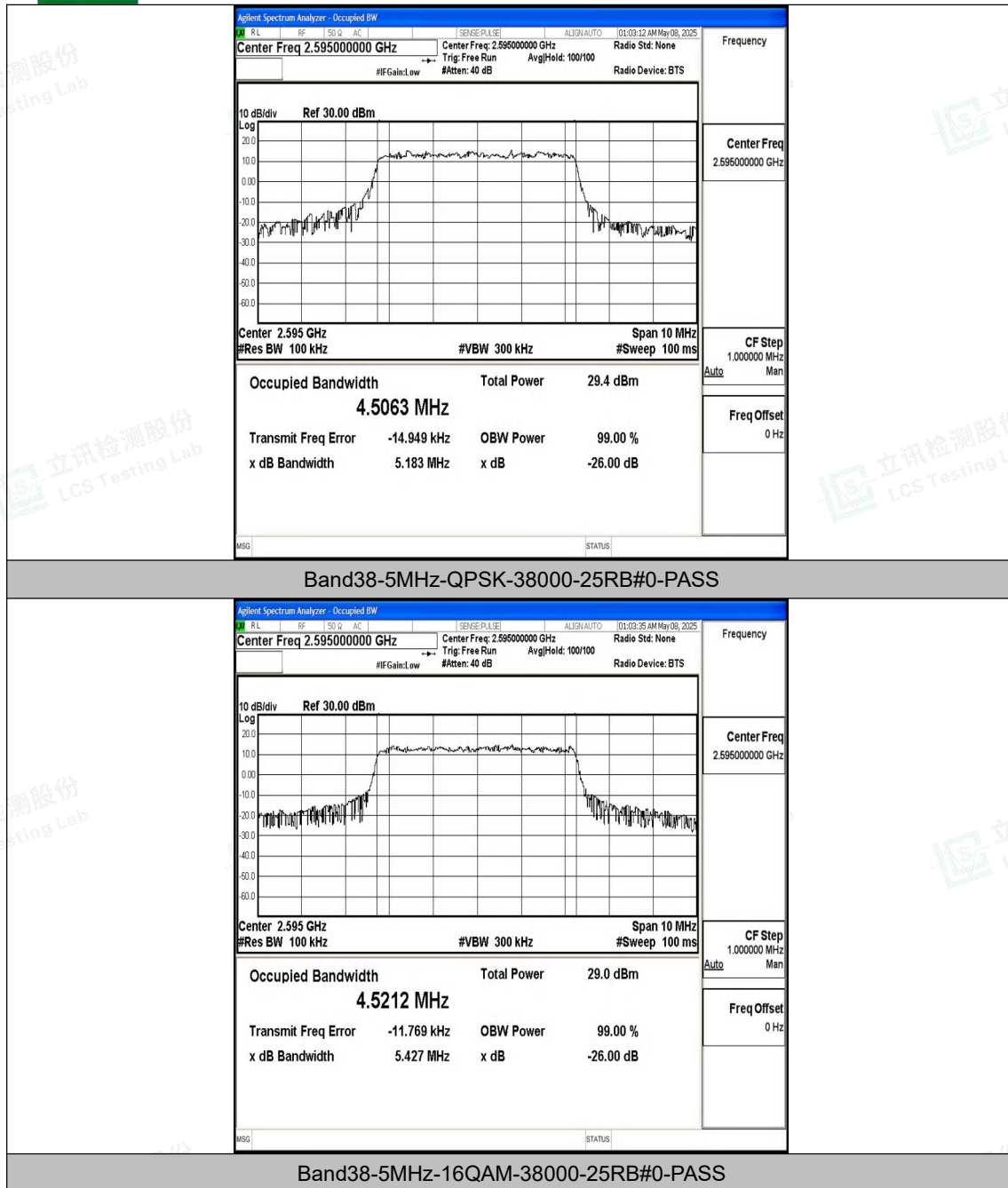
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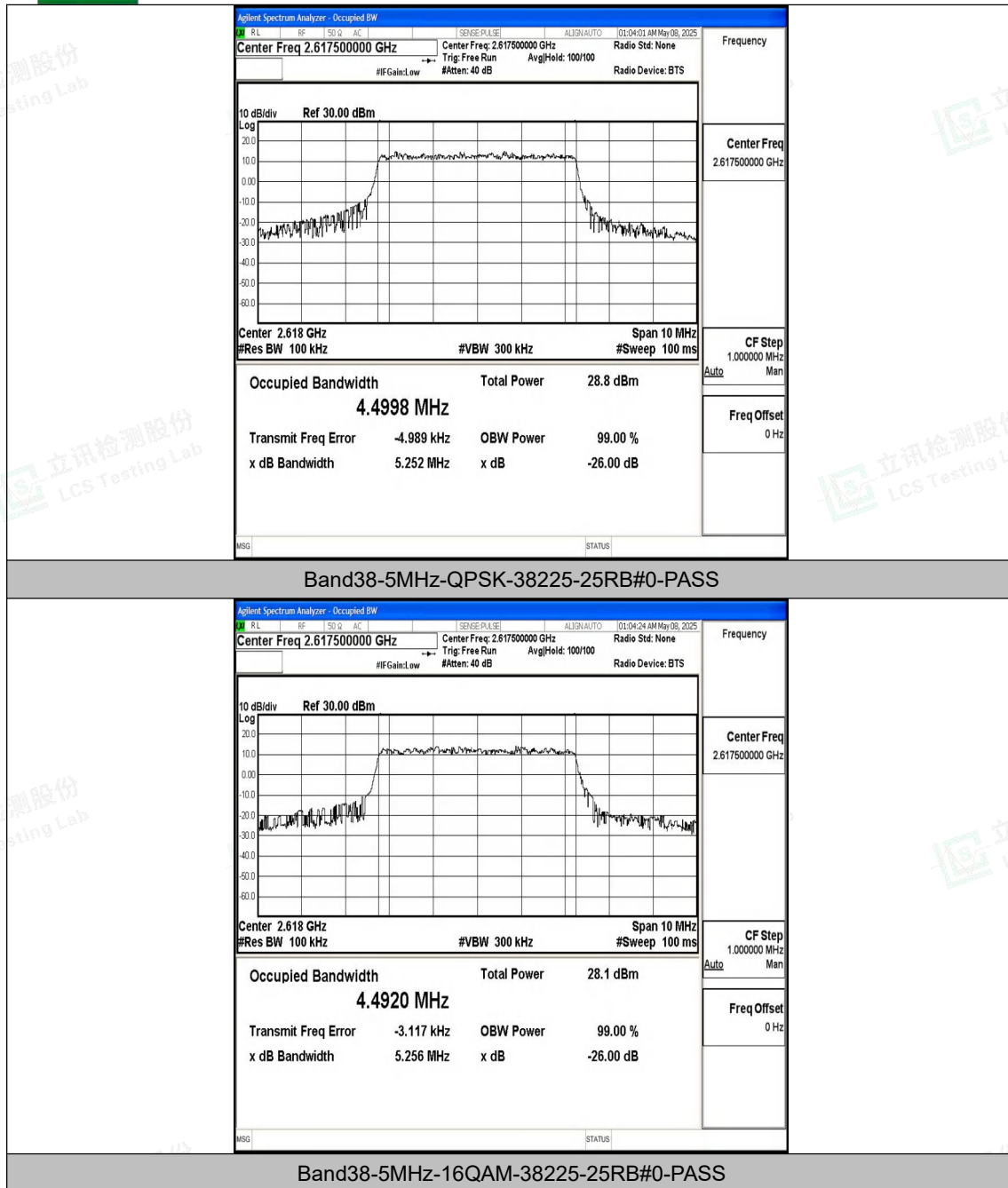
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Test Graphs







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