



Appendix K: Test Data for E-UTRA Band 41

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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K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	21.07	PASS
Band41	5MHz	16QAM	39675	1RB#0	20.91	PASS
Band41	5MHz	QPSK	39675	1RB#12	21.03	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.18	PASS
Band41	5MHz	QPSK	39675	1RB#24	21.37	PASS
Band41	5MHz	16QAM	39675	1RB#24	20.92	PASS
Band41	5MHz	QPSK	39675	12RB#0	20.54	PASS
Band41	5MHz	16QAM	39675	12RB#0	19.87	PASS
Band41	5MHz	QPSK	39675	12RB#6	20.42	PASS
Band41	5MHz	16QAM	39675	12RB#6	19.89	PASS
Band41	5MHz	QPSK	39675	12RB#13	20.49	PASS
Band41	5MHz	16QAM	39675	12RB#13	19.96	PASS
Band41	5MHz	QPSK	39675	25RB#0	20.51	PASS
Band41	5MHz	16QAM	39675	25RB#0	19.64	PASS
Band41	5MHz	QPSK	40620	1RB#0	21.97	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.05	PASS
Band41	5MHz	QPSK	40620	1RB#12	21.93	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.70	PASS
Band41	5MHz	QPSK	40620	1RB#24	21.94	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.74	PASS
Band41	5MHz	QPSK	40620	12RB#0	20.89	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.24	PASS
Band41	5MHz	QPSK	40620	12RB#6	20.94	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.28	PASS
Band41	5MHz	QPSK	40620	12RB#13	20.86	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.20	PASS
Band41	5MHz	QPSK	40620	25RB#0	20.91	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.30	PASS
Band41	5MHz	QPSK	41565	1RB#0	21.41	PASS
Band41	5MHz	16QAM	41565	1RB#0	20.98	PASS
Band41	5MHz	QPSK	41565	1RB#12	21.36	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.22	PASS
Band41	5MHz	QPSK	41565	1RB#24	21.36	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.09	PASS
Band41	5MHz	QPSK	41565	12RB#0	20.29	PASS



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Band41	5MHz	16QAM	41565	12RB#0	19.61	PASS
Band41	5MHz	QPSK	41565	12RB#6	20.31	PASS
Band41	5MHz	16QAM	41565	12RB#6	19.62	PASS
Band41	5MHz	QPSK	41565	12RB#13	20.41	PASS
Band41	5MHz	16QAM	41565	12RB#13	19.73	PASS
Band41	5MHz	QPSK	41565	25RB#0	20.47	PASS
Band41	5MHz	16QAM	41565	25RB#0	19.83	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.05	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.92	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.01	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.95	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.15	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.99	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.02	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.36	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.03	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.07	PASS
Band41	10MHz	QPSK	39700	25RB#25	20.70	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.16	PASS
Band41	10MHz	QPSK	39700	50RB#0	20.74	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.06	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.22	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.16	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.10	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.07	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.17	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.12	PASS
Band41	10MHz	QPSK	40620	25RB#0	21.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.39	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.01	PASS
Band41	10MHz	16QAM	40620	25RB#12	20.40	PASS
Band41	10MHz	QPSK	40620	25RB#25	20.91	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.23	PASS
Band41	10MHz	QPSK	40620	50RB#0	20.86	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.28	PASS
Band41	10MHz	QPSK	41540	1RB#0	21.59	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.40	PASS
Band41	10MHz	QPSK	41540	1RB#24	21.60	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.42	PASS
Band41	10MHz	QPSK	41540	1RB#49	21.59	PASS



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Band41	10MHz	16QAM	41540	1RB#49	21.43	PASS
Band41	10MHz	QPSK	41540	25RB#0	20.52	PASS
Band41	10MHz	16QAM	41540	25RB#0	19.82	PASS
Band41	10MHz	QPSK	41540	25RB#12	20.45	PASS
Band41	10MHz	16QAM	41540	25RB#12	19.76	PASS
Band41	10MHz	QPSK	41540	25RB#25	20.54	PASS
Band41	10MHz	16QAM	41540	25RB#25	19.78	PASS
Band41	10MHz	QPSK	41540	50RB#0	20.50	PASS
Band41	10MHz	16QAM	41540	50RB#0	19.85	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.08	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.94	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.06	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.05	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.10	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.05	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.08	PASS
Band41	15MHz	16QAM	39725	38RB#0	20.76	PASS
Band41	15MHz	QPSK	39725	38RB#18	20.76	PASS
Band41	15MHz	16QAM	39725	38RB#18	20.76	PASS
Band41	15MHz	QPSK	39725	38RB#37	20.76	PASS
Band41	15MHz	16QAM	39725	38RB#37	20.76	PASS
Band41	15MHz	QPSK	39725	75RB#0	20.76	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.15	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.19	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.16	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.18	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.16	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.17	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.98	PASS
Band41	15MHz	QPSK	40620	38RB#0	21.08	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.09	PASS
Band41	15MHz	QPSK	40620	38RB#18	21.09	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.09	PASS
Band41	15MHz	QPSK	40620	38RB#37	21.10	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.10	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.10	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.38	PASS
Band41	15MHz	QPSK	41515	1RB#0	21.60	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.46	PASS
Band41	15MHz	QPSK	41515	1RB#38	21.62	PASS



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Band41	15MHz	16QAM	41515	1RB#38	21.41	PASS
Band41	15MHz	QPSK	41515	1RB#74	21.62	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.36	PASS
Band41	15MHz	QPSK	41515	38RB#0	20.59	PASS
Band41	15MHz	16QAM	41515	38RB#0	20.59	PASS
Band41	15MHz	QPSK	41515	38RB#18	20.43	PASS
Band41	15MHz	16QAM	41515	38RB#18	20.44	PASS
Band41	15MHz	QPSK	41515	38RB#37	20.44	PASS
Band41	15MHz	16QAM	41515	38RB#37	20.44	PASS
Band41	15MHz	QPSK	41515	75RB#0	20.44	PASS
Band41	15MHz	16QAM	41515	75RB#0	19.78	PASS
Band41	20MHz	QPSK	39750	1RB#0	21.62	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.10	PASS
Band41	20MHz	QPSK	39750	1RB#49	21.68	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.15	PASS
Band41	20MHz	QPSK	39750	1RB#99	21.68	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.28	PASS
Band41	20MHz	QPSK	39750	50RB#0	20.95	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.48	PASS
Band41	20MHz	QPSK	39750	50RB#25	20.95	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.48	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.03	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.58	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.01	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.41	PASS
Band41	20MHz	QPSK	40620	1RB#0	21.86	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.11	PASS
Band41	20MHz	QPSK	40620	1RB#49	21.69	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.87	PASS
Band41	20MHz	QPSK	40620	1RB#99	21.77	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.75	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.03	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.51	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.04	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.52	PASS
Band41	20MHz	QPSK	40620	50RB#50	20.98	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.55	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.05	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.43	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.42	PASS



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Band41	20MHz	16QAM	41490	1RB#0	21.55	PASS
Band41	20MHz	QPSK	41490	1RB#49	21.35	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.53	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.22	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.53	PASS
Band41	20MHz	QPSK	41490	50RB#0	20.52	PASS
Band41	20MHz	16QAM	41490	50RB#0	19.89	PASS
Band41	20MHz	QPSK	41490	50RB#25	20.53	PASS
Band41	20MHz	16QAM	41490	50RB#25	19.89	PASS
Band41	20MHz	QPSK	41490	50RB#50	20.56	PASS
Band41	20MHz	16QAM	41490	50RB#50	19.92	PASS
Band41	20MHz	QPSK	41490	100RB#0	20.55	PASS
Band41	20MHz	16QAM	41490	100RB#0	19.84	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	8.57	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.91	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	9.06	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.76	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.71	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	8.49	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.00	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.75	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	8.66	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.89	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.33	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.97	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	8.46	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.80	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.25	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.66	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.62	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	9.36	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.42	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.75	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	8.55	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.60	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.11	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.87	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.49	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	7.94	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.26	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.88	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.47	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.42	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.21	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	10.13	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.52	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	9.00	13	PASS



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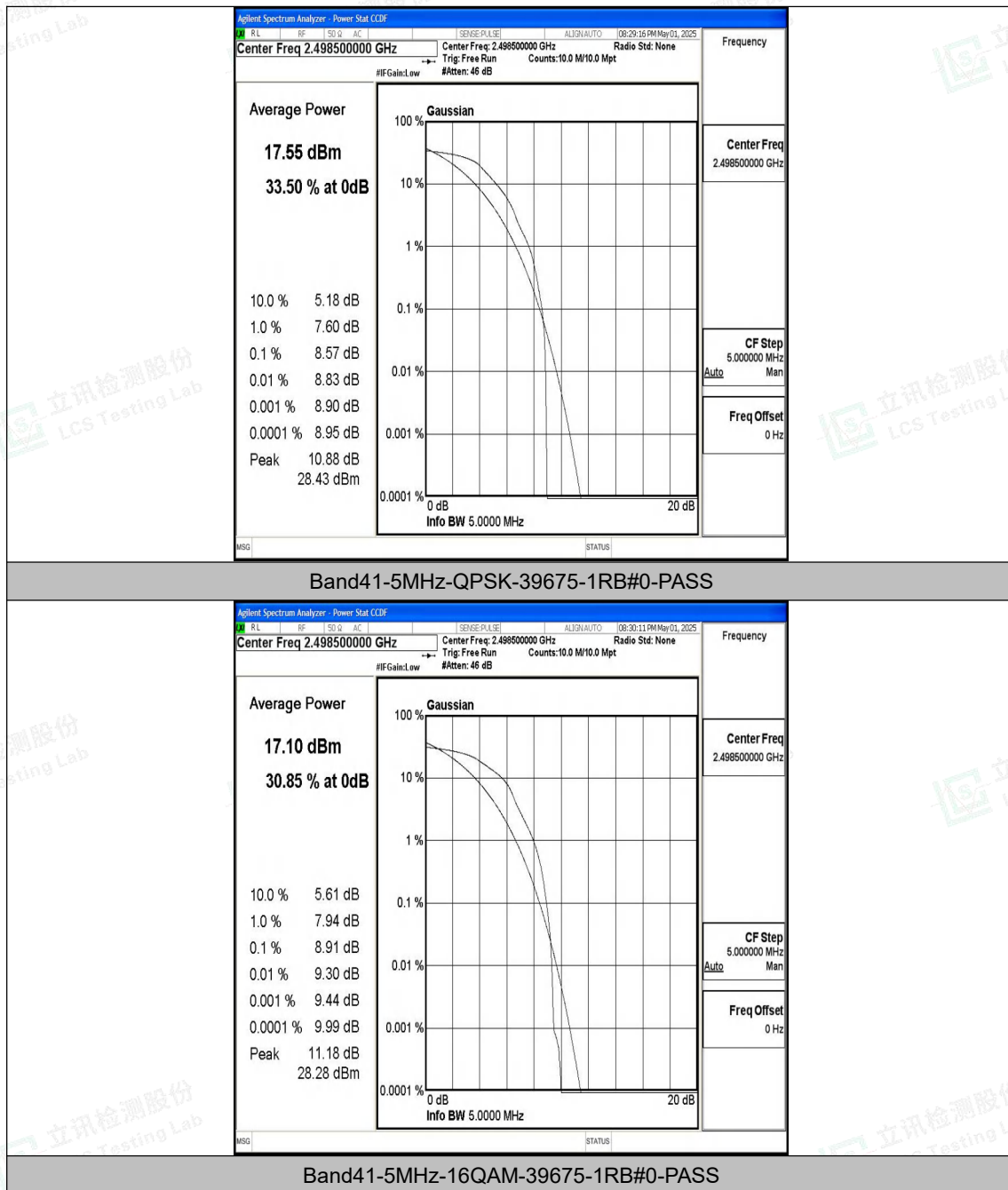


Band41	15MHz	QPSK	41515	75RB#0	9.36	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	10.24	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	8.48	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	8.69	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.37	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.67	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.18	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.82	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.07	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.77	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	8.08	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.48	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.27	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.98	13	PASS





Test Graphs

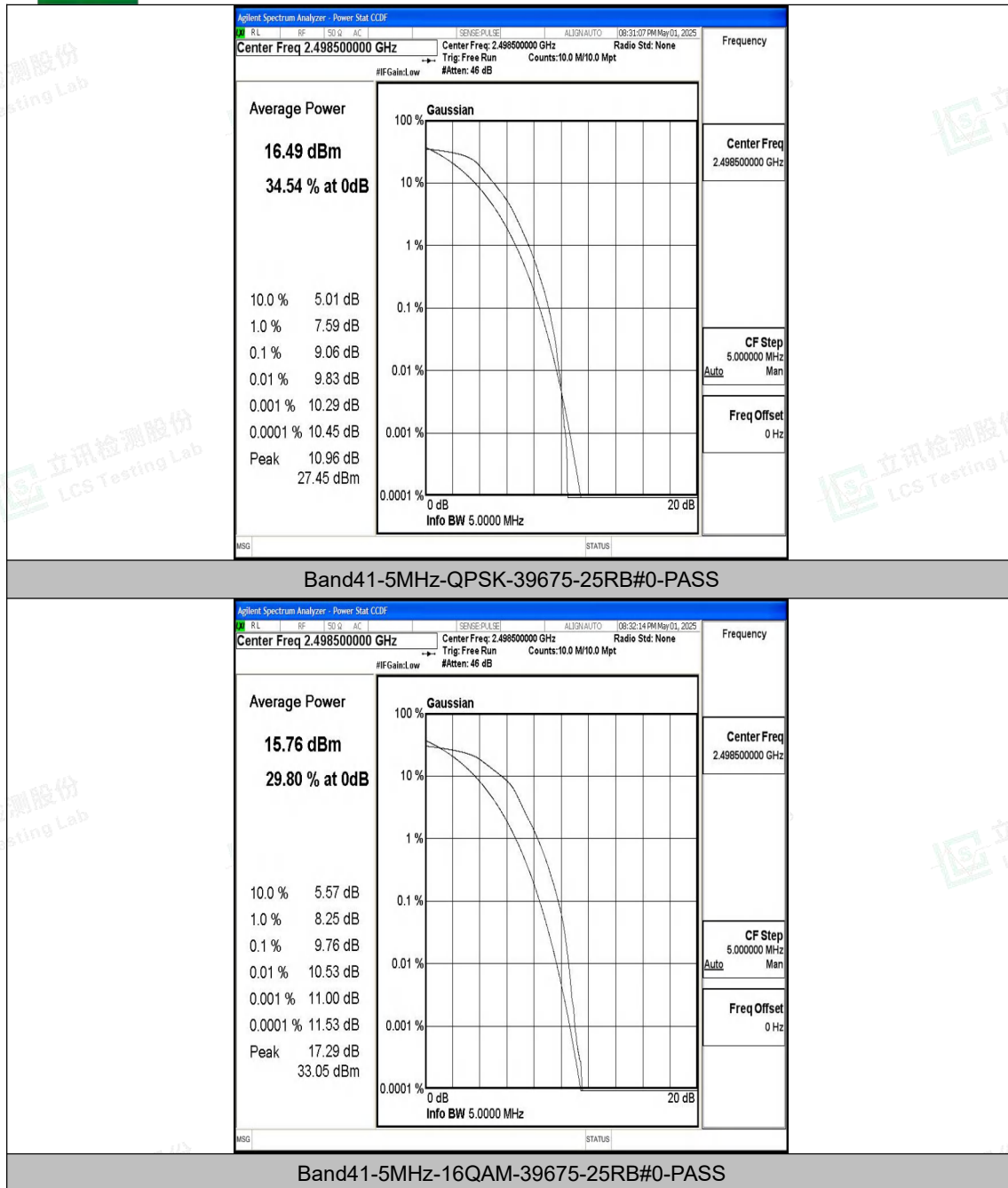


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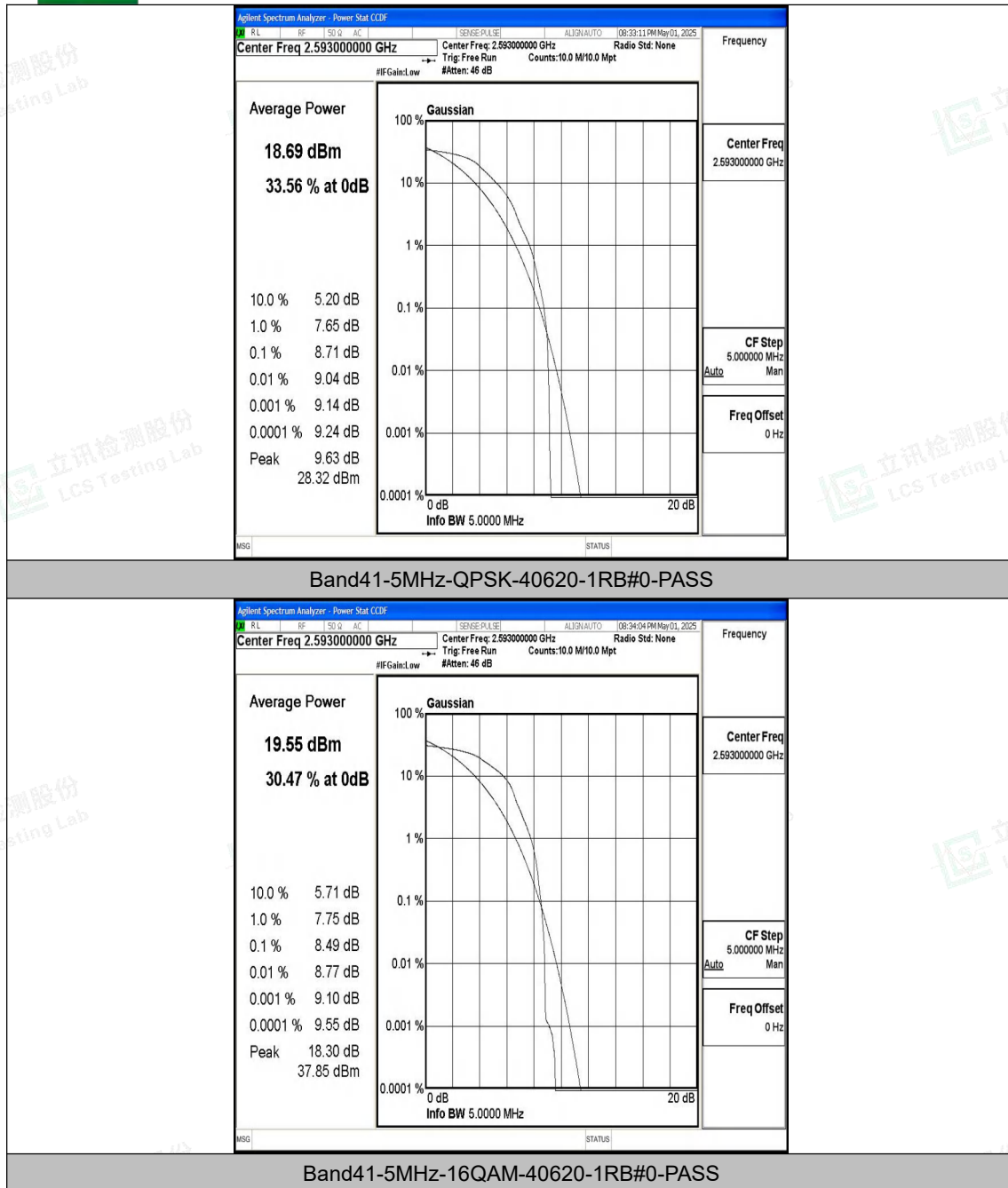


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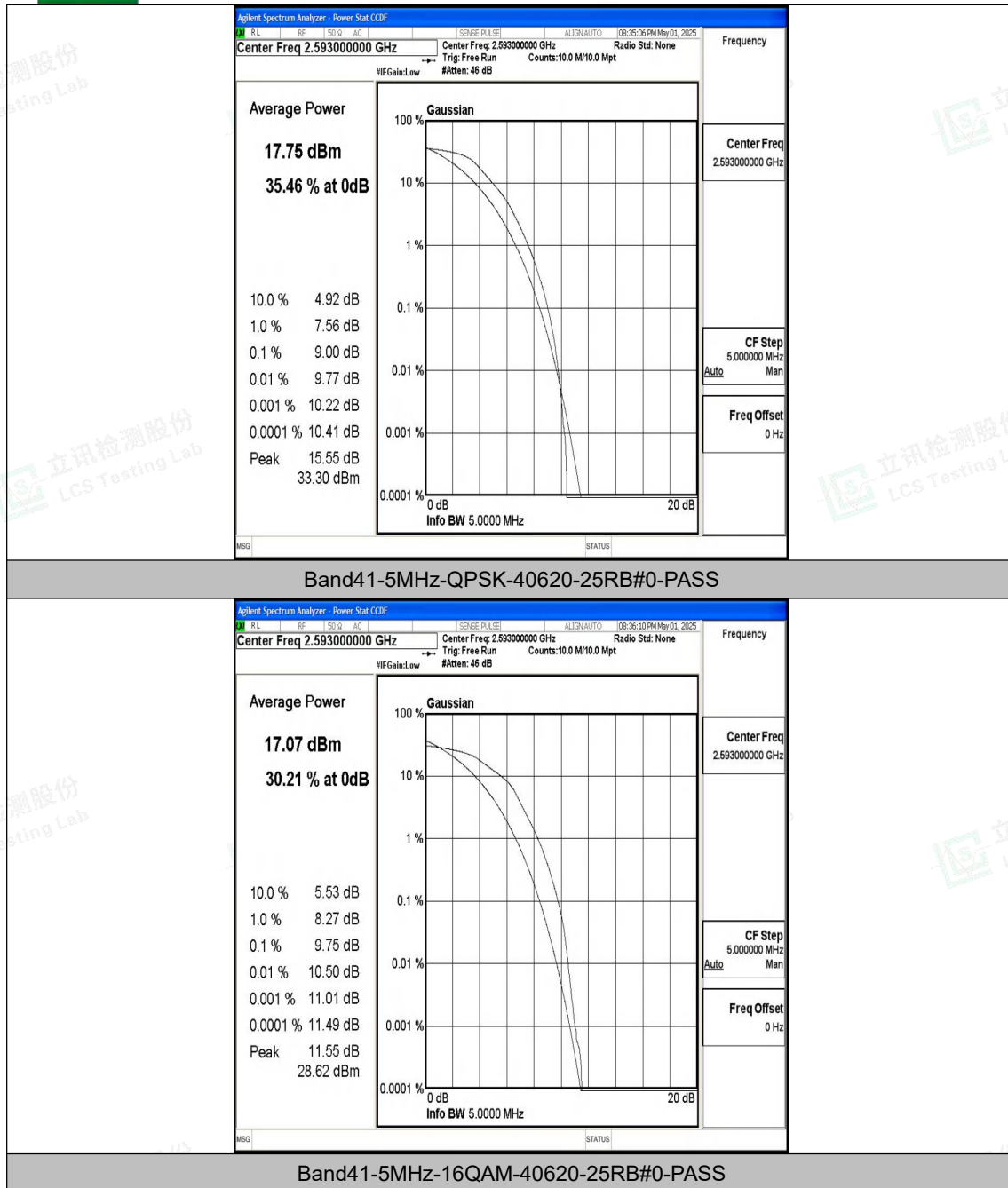


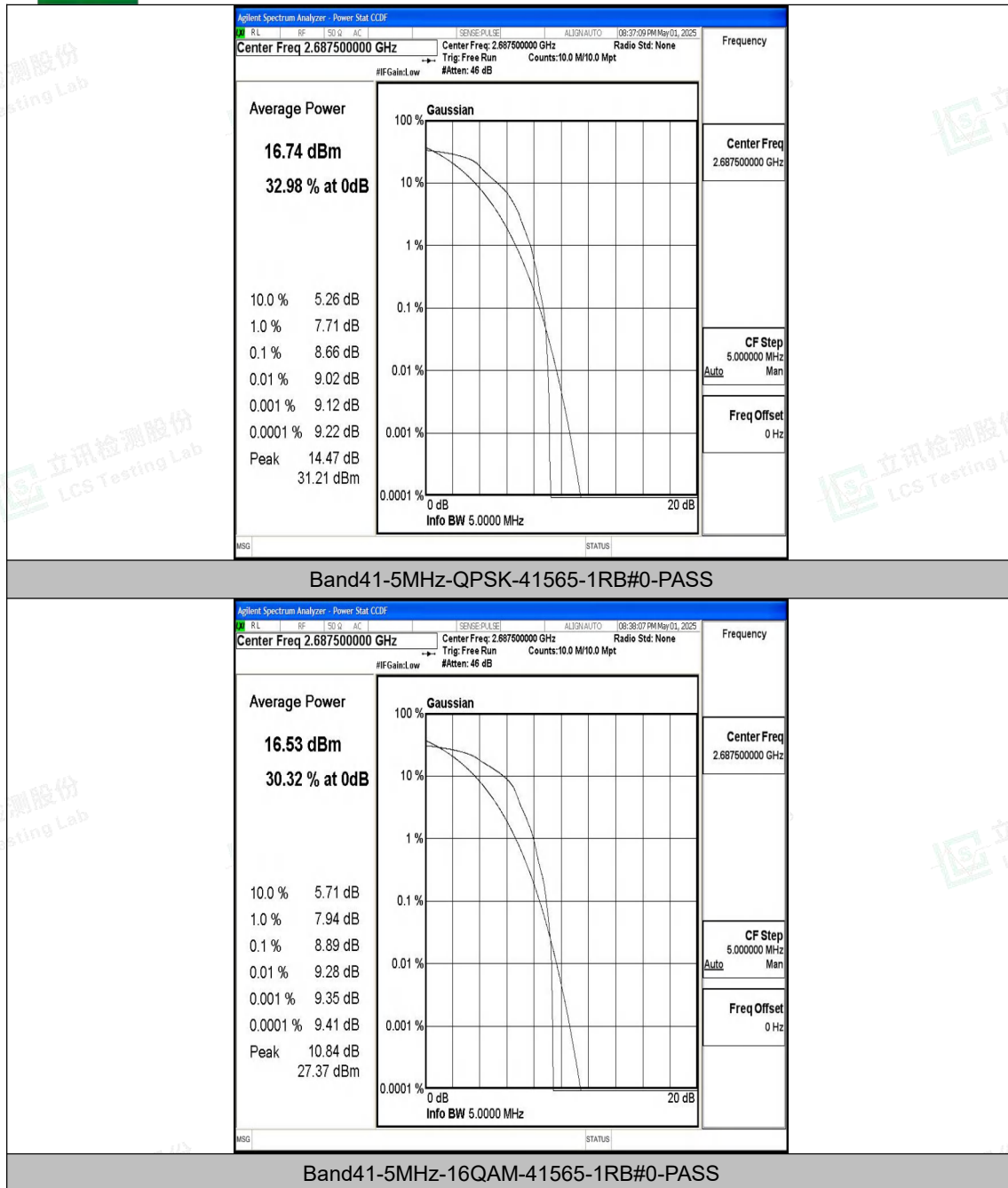
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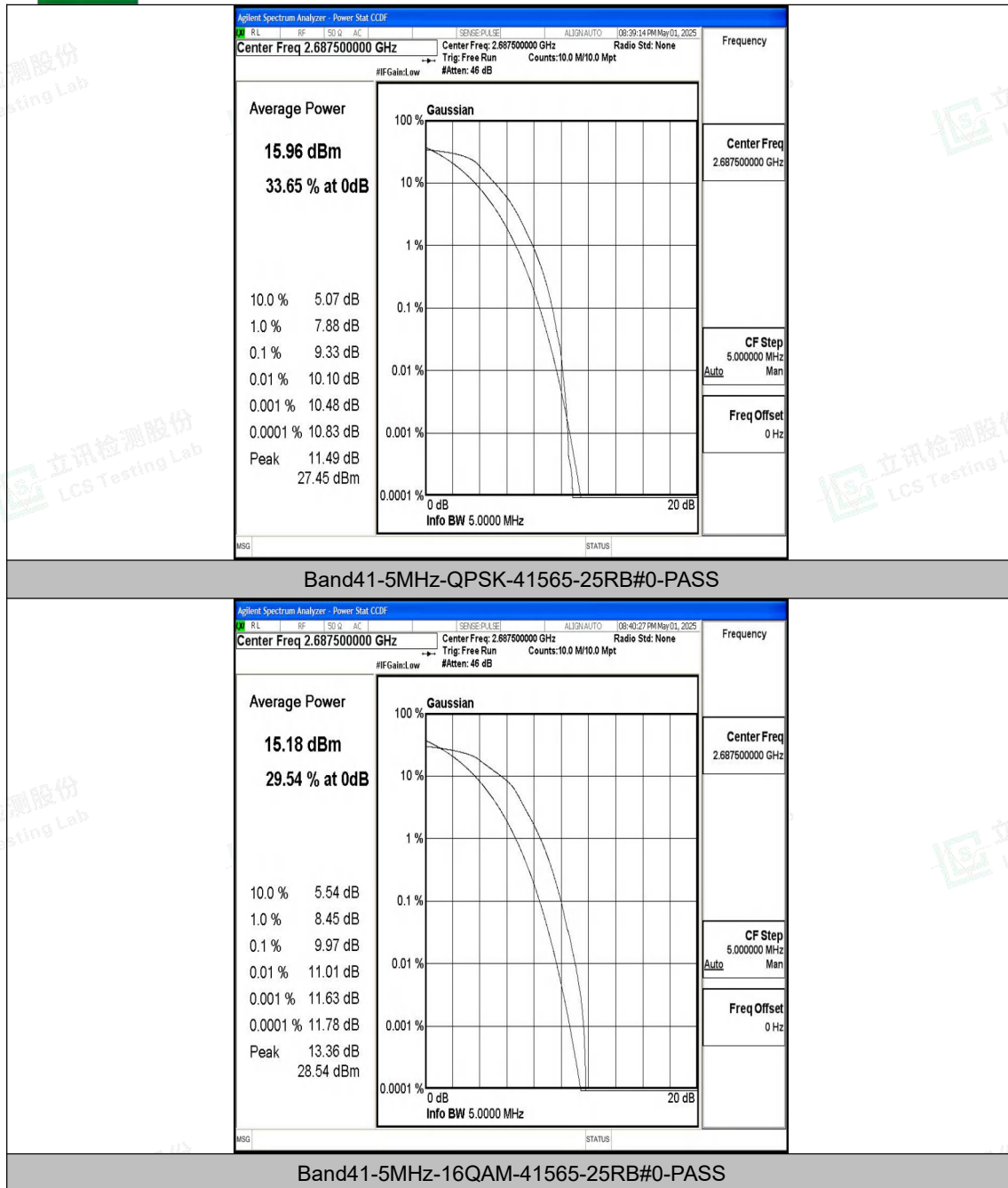
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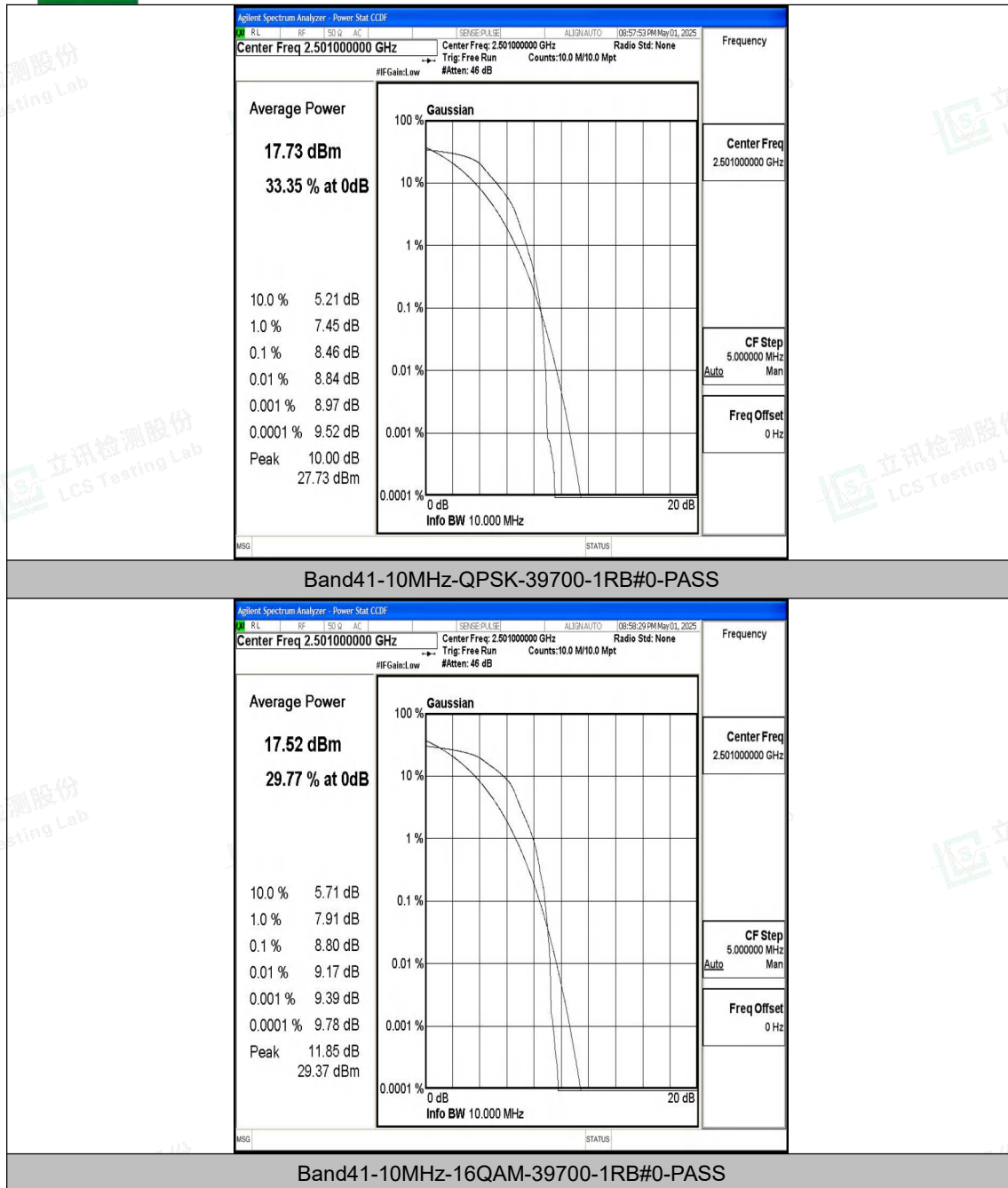


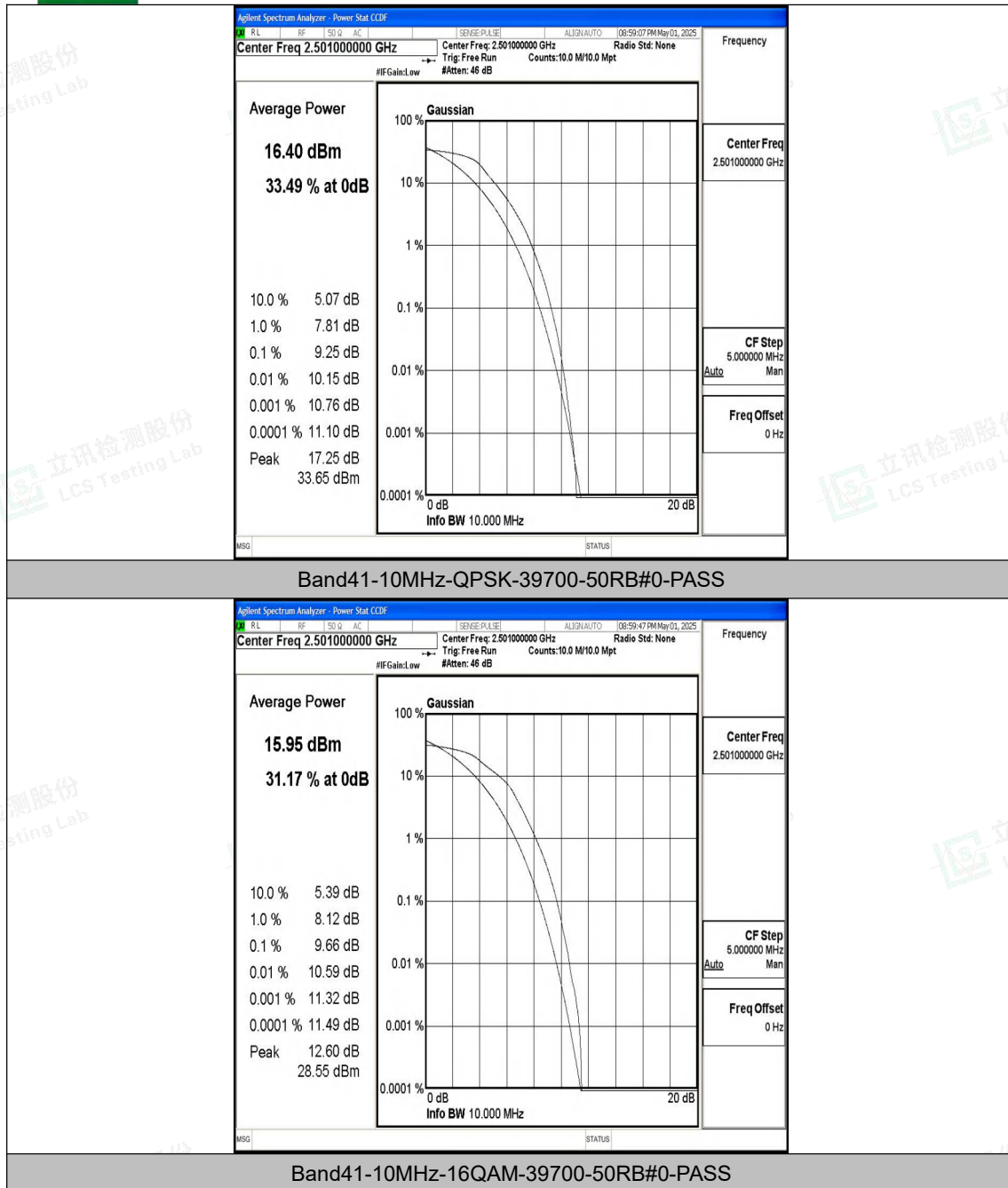
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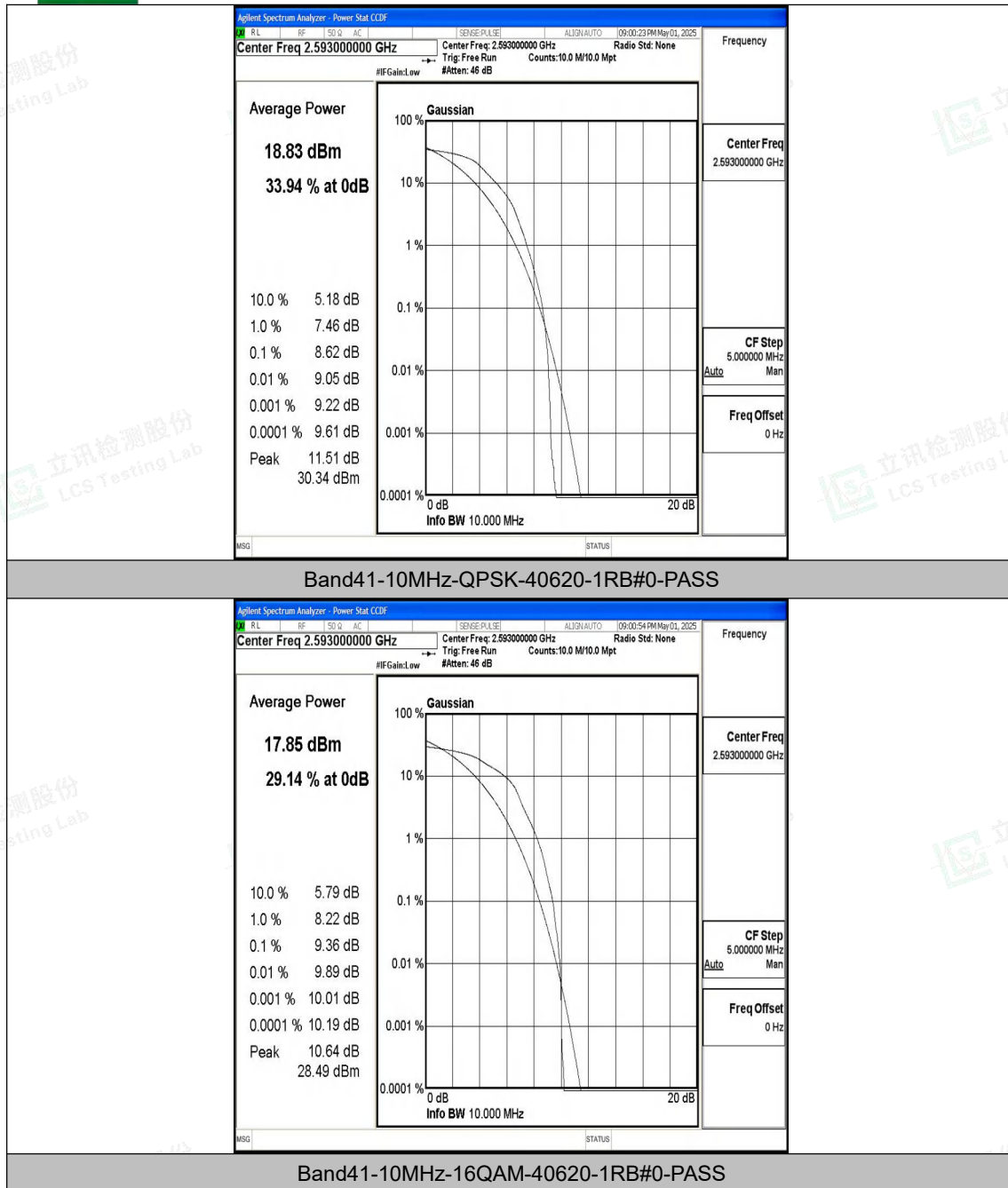
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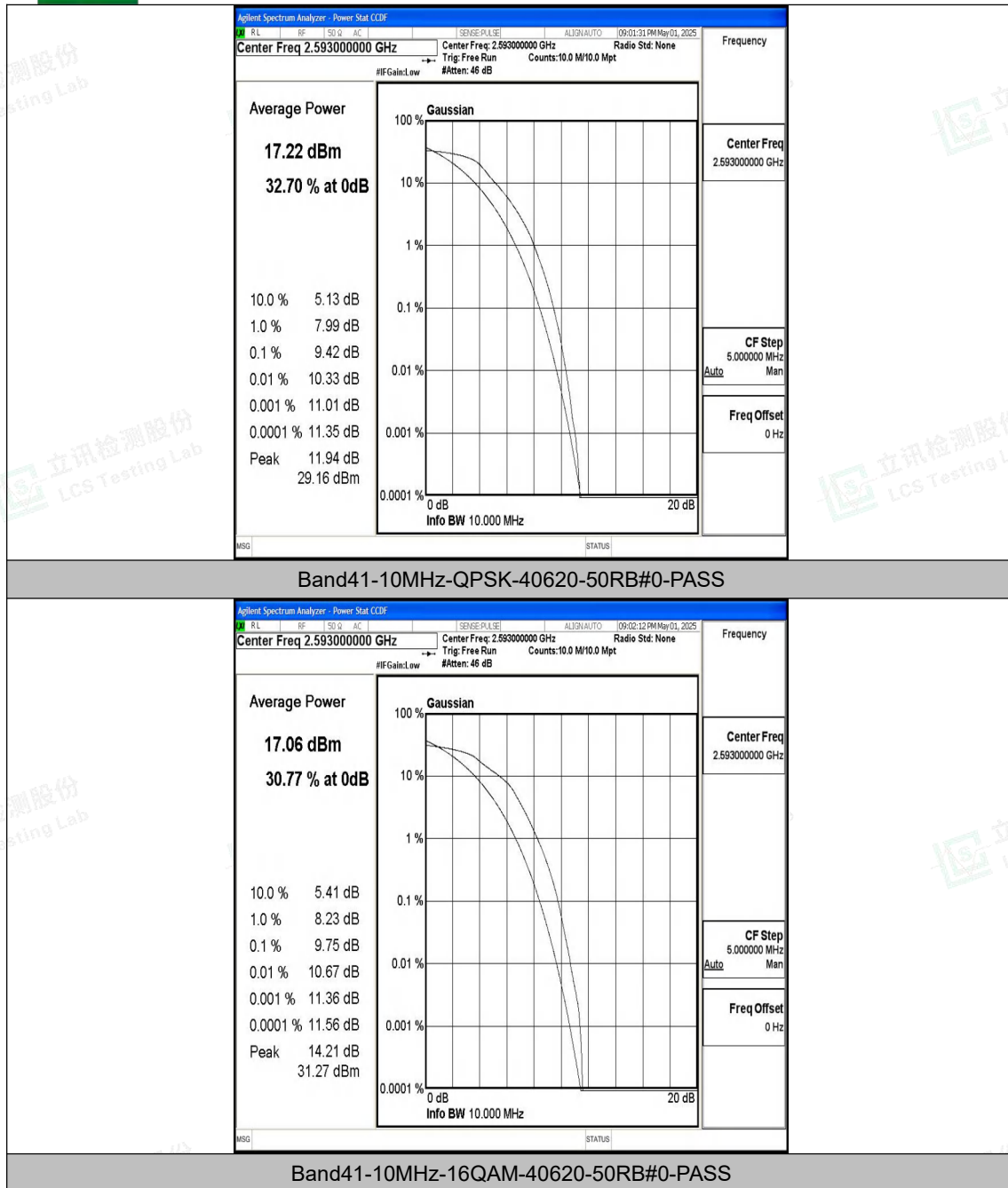


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Scan code to check authenticity

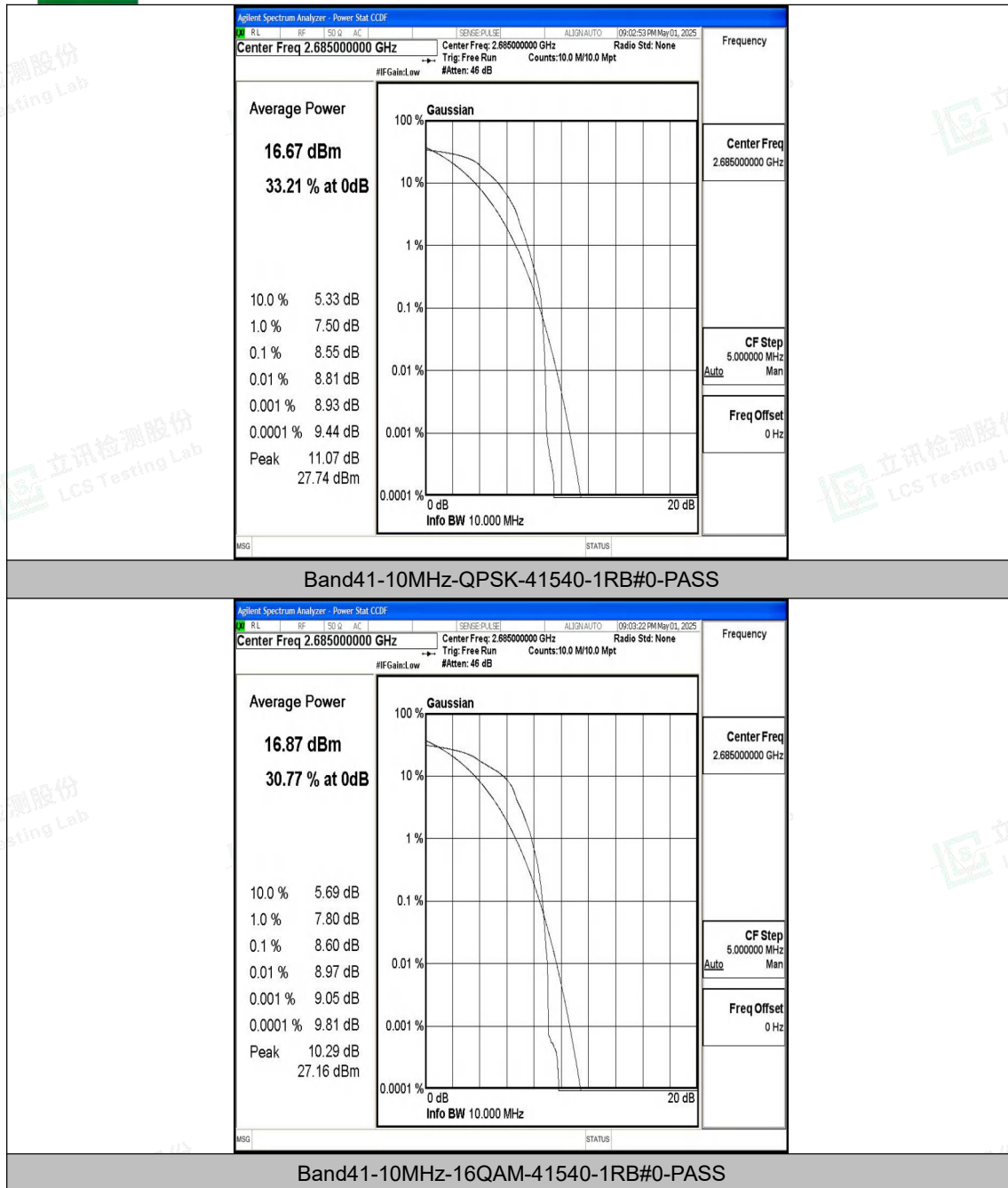


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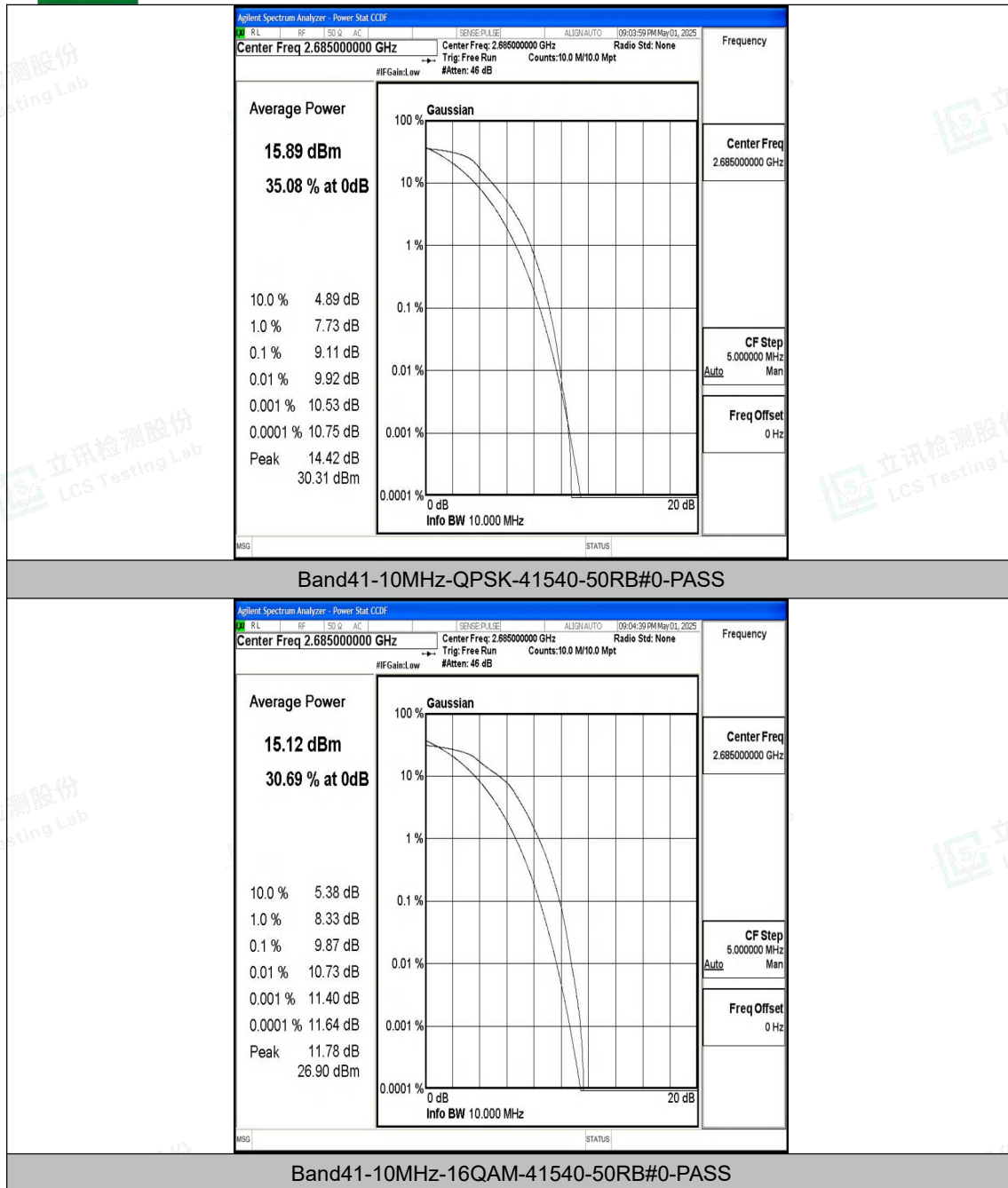


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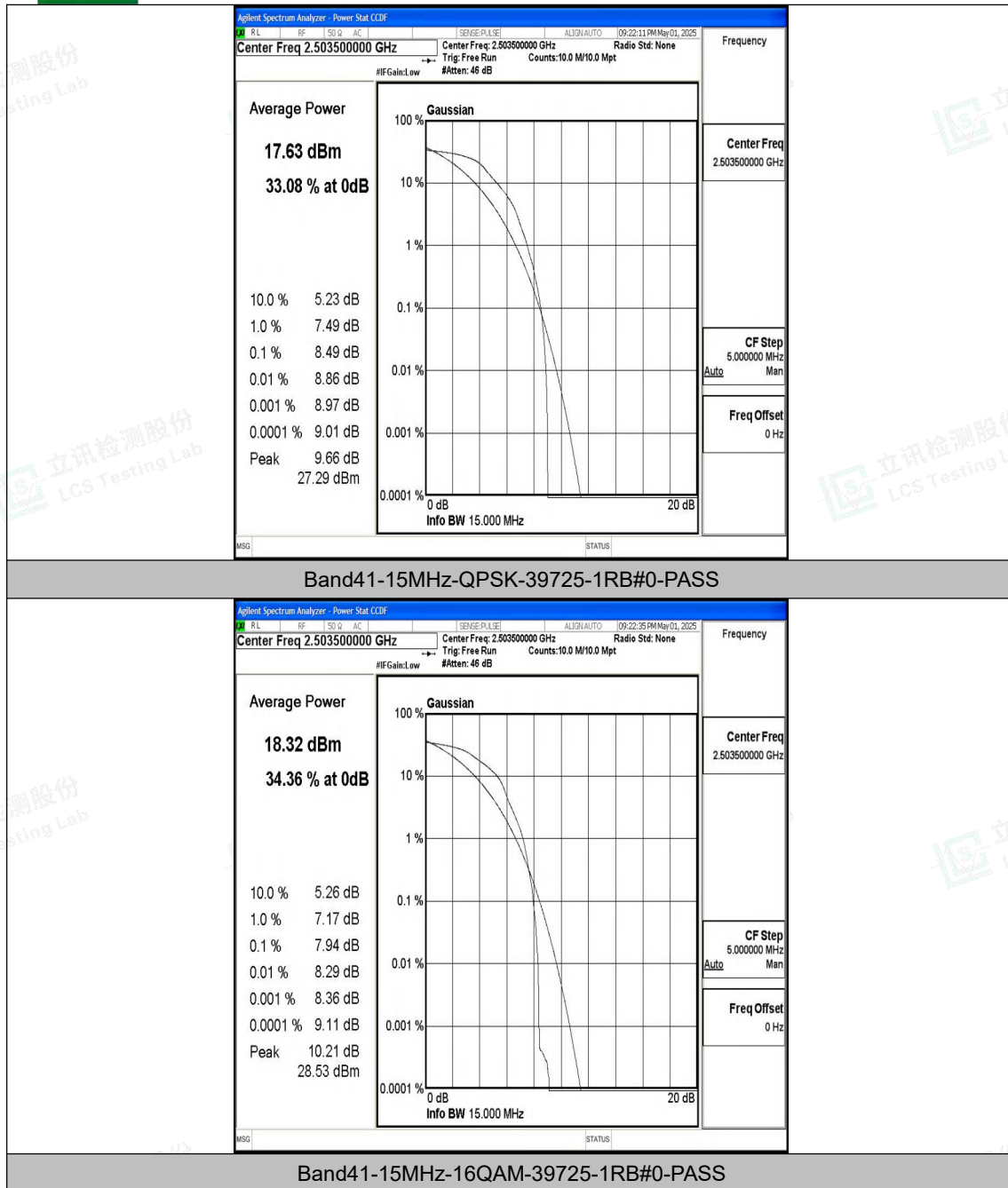


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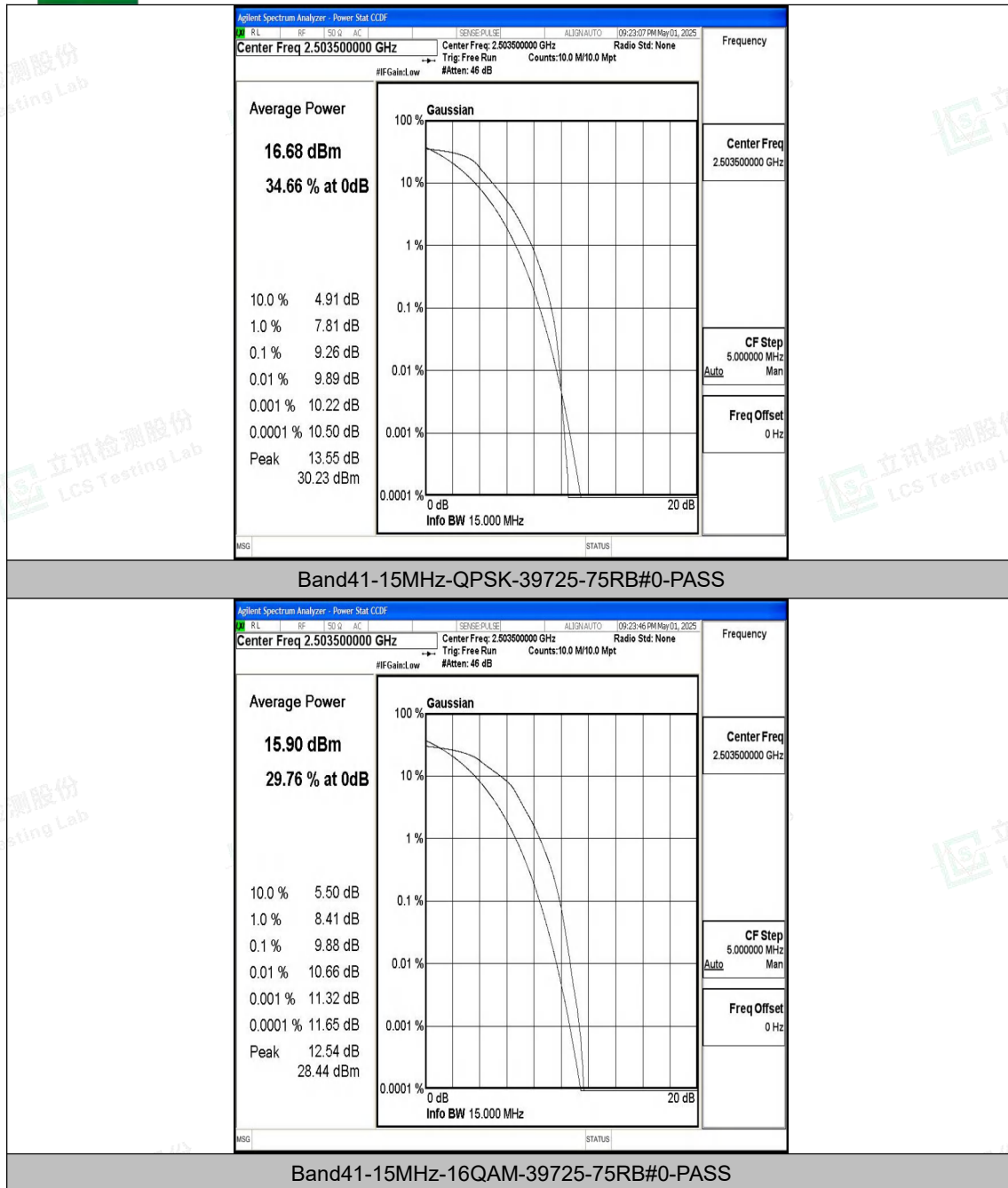


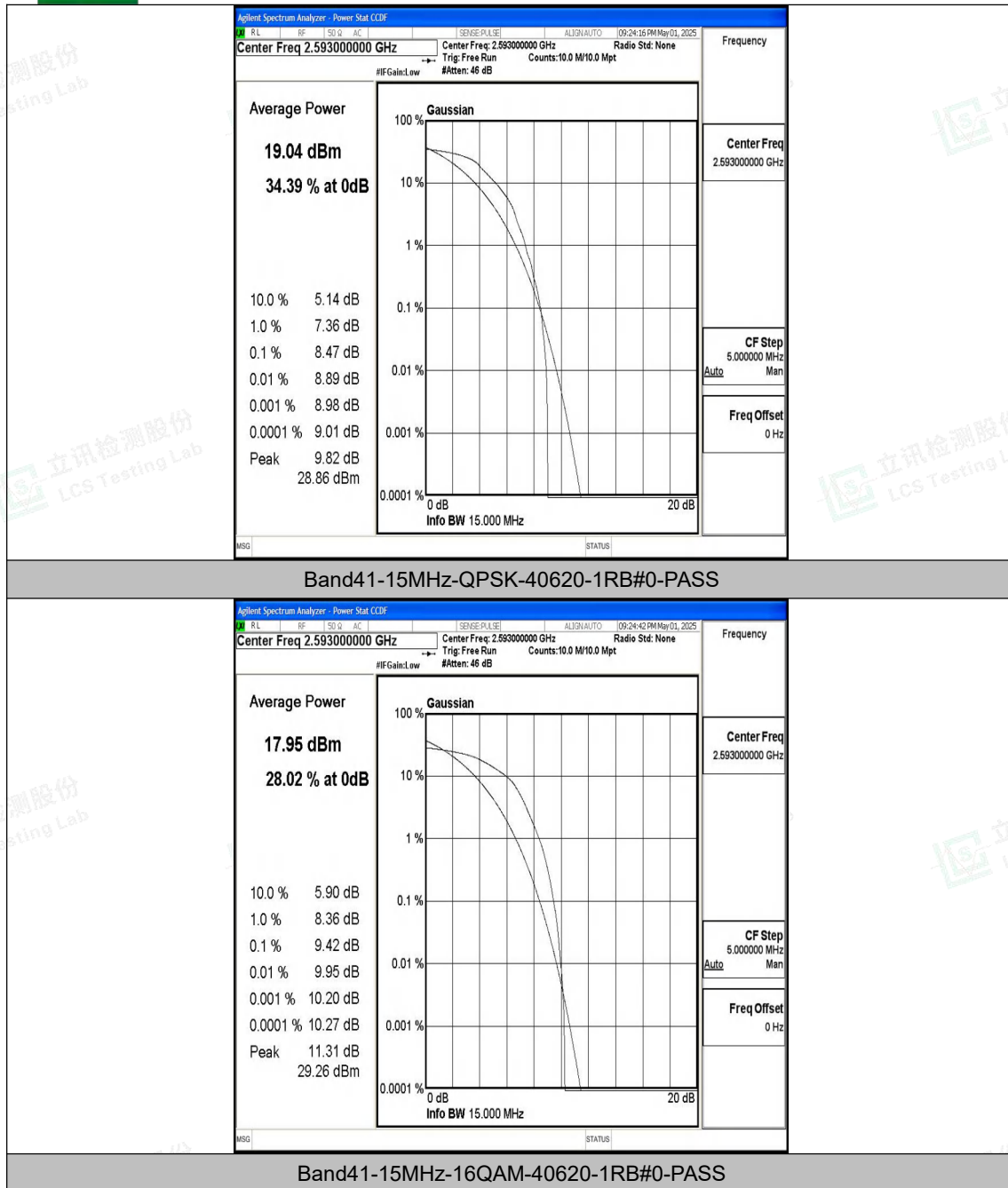
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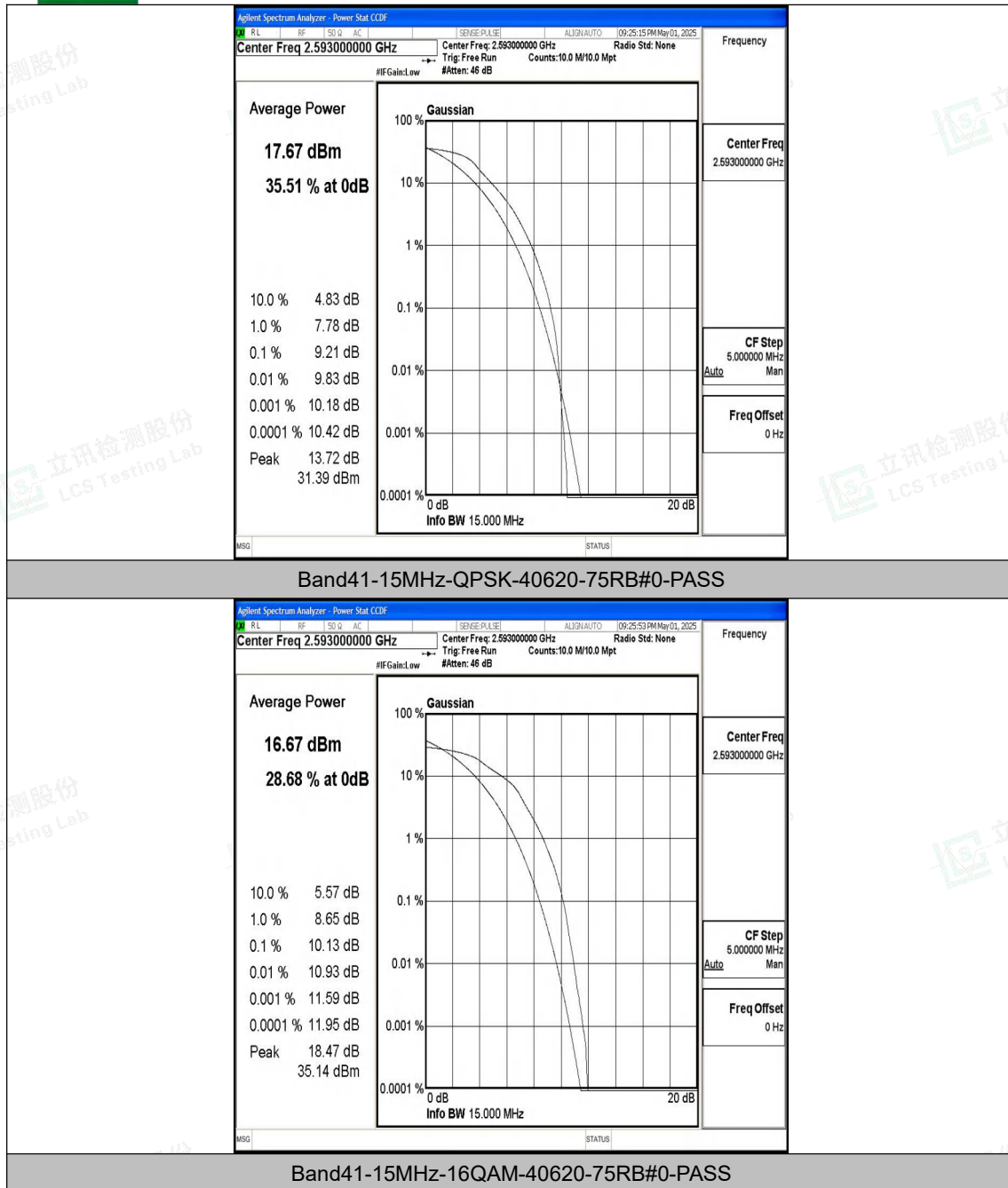


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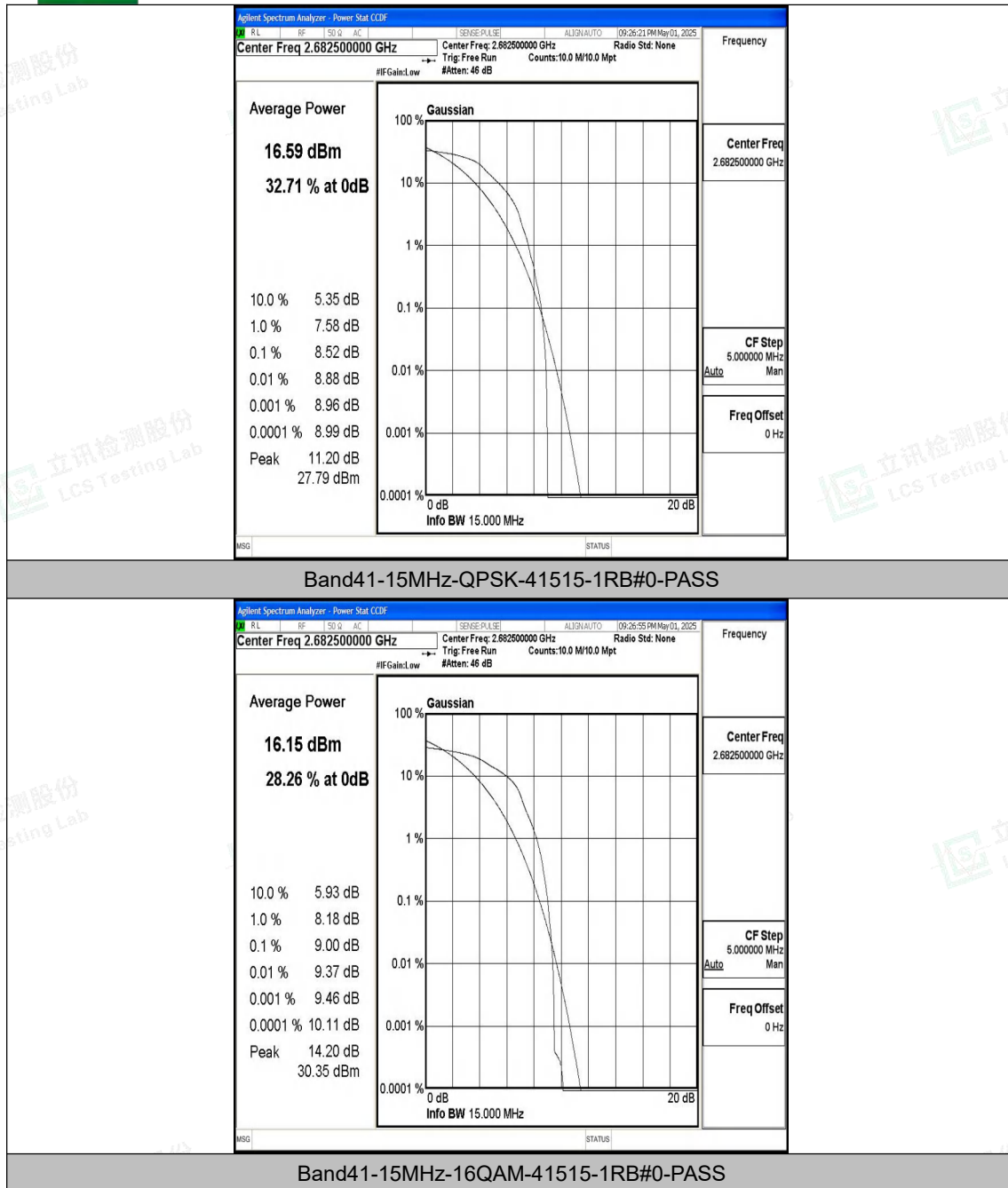


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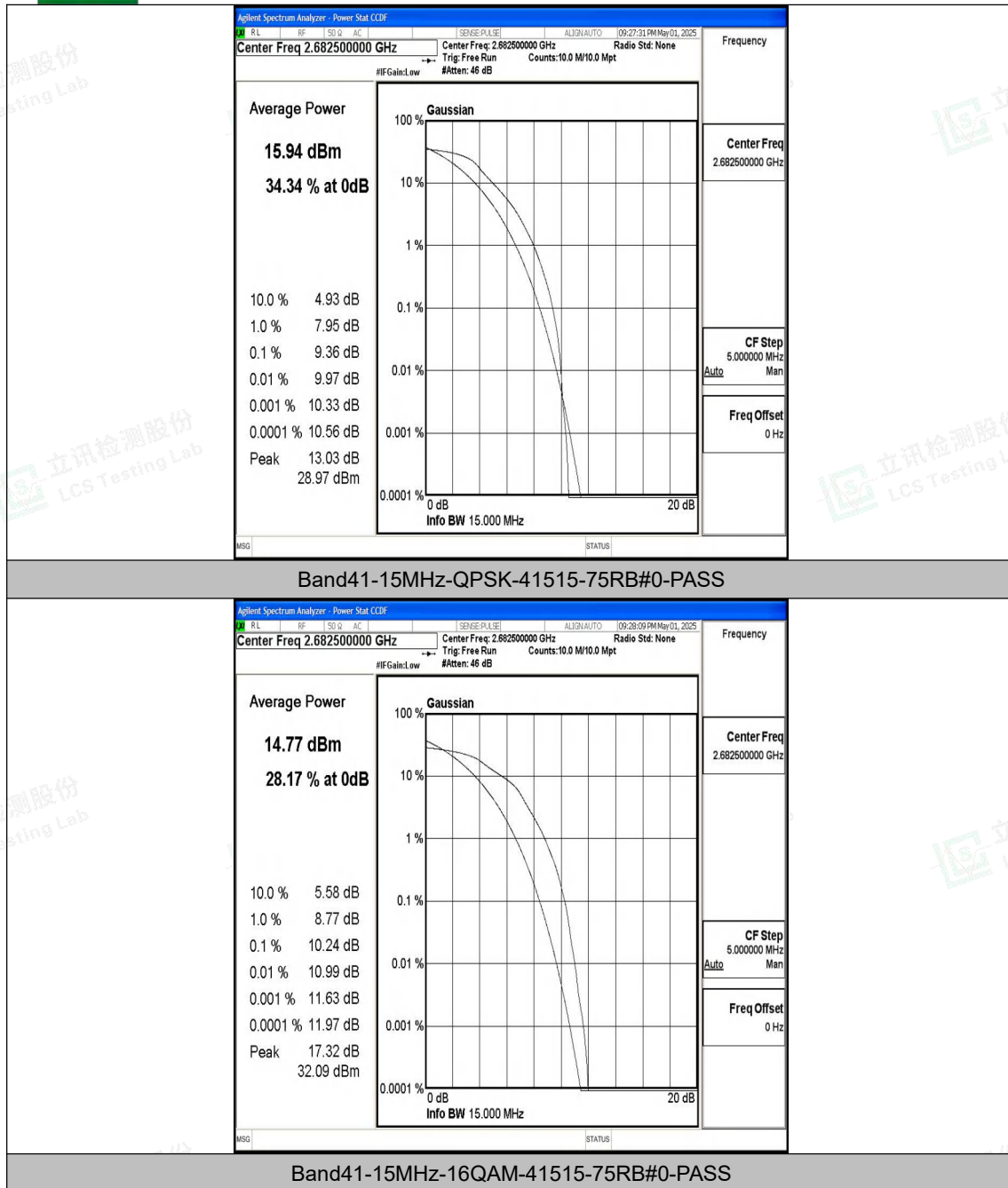


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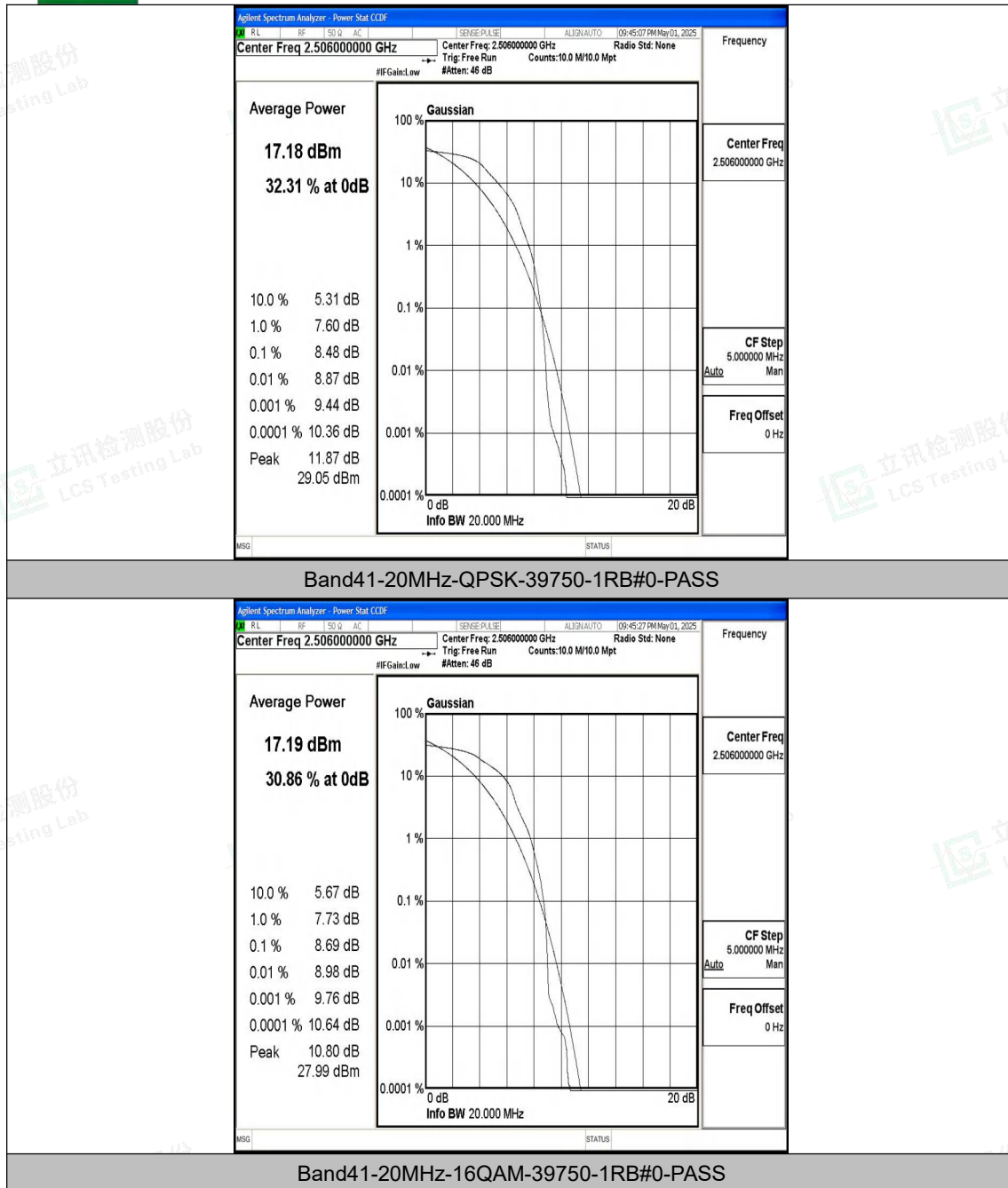


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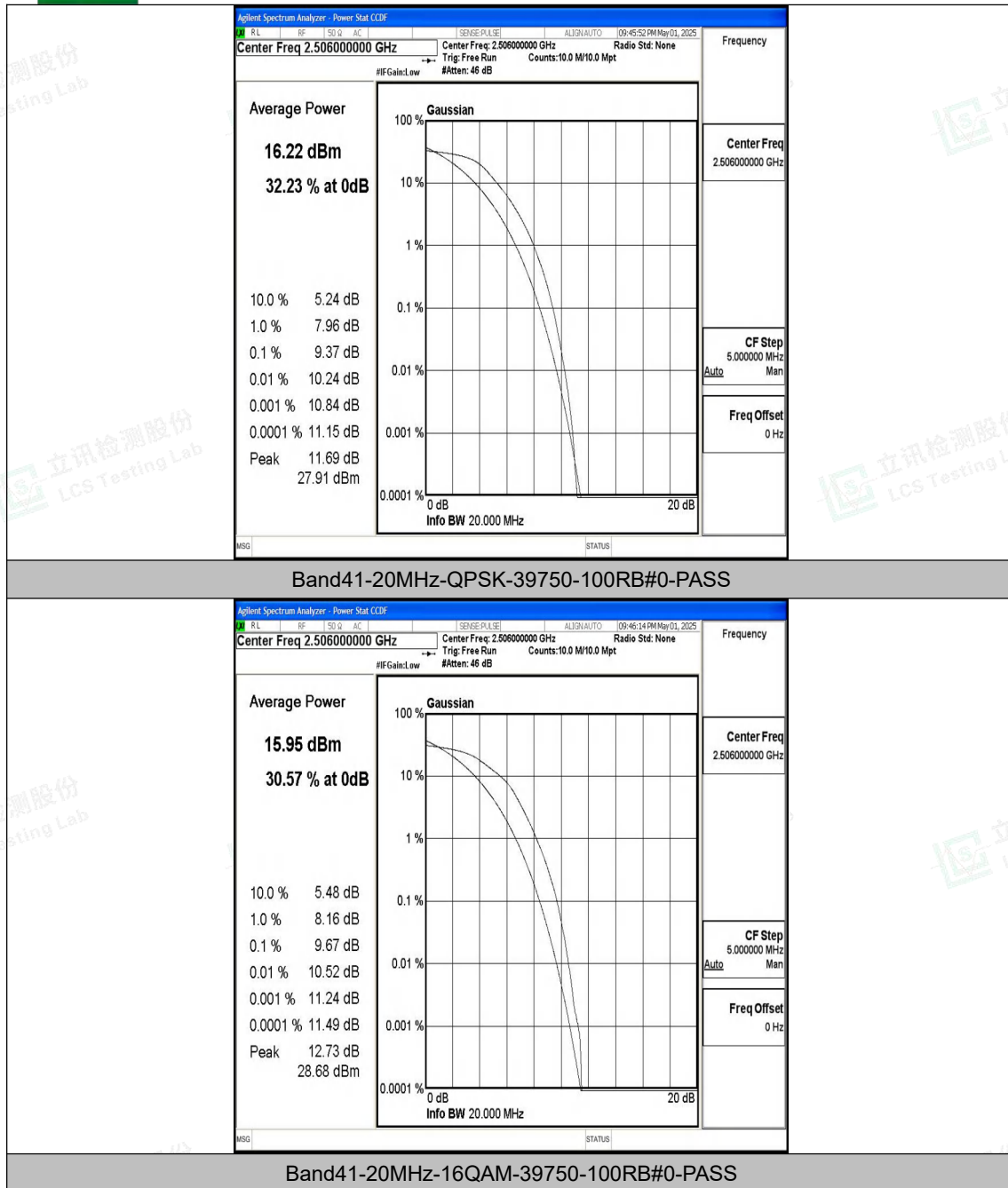


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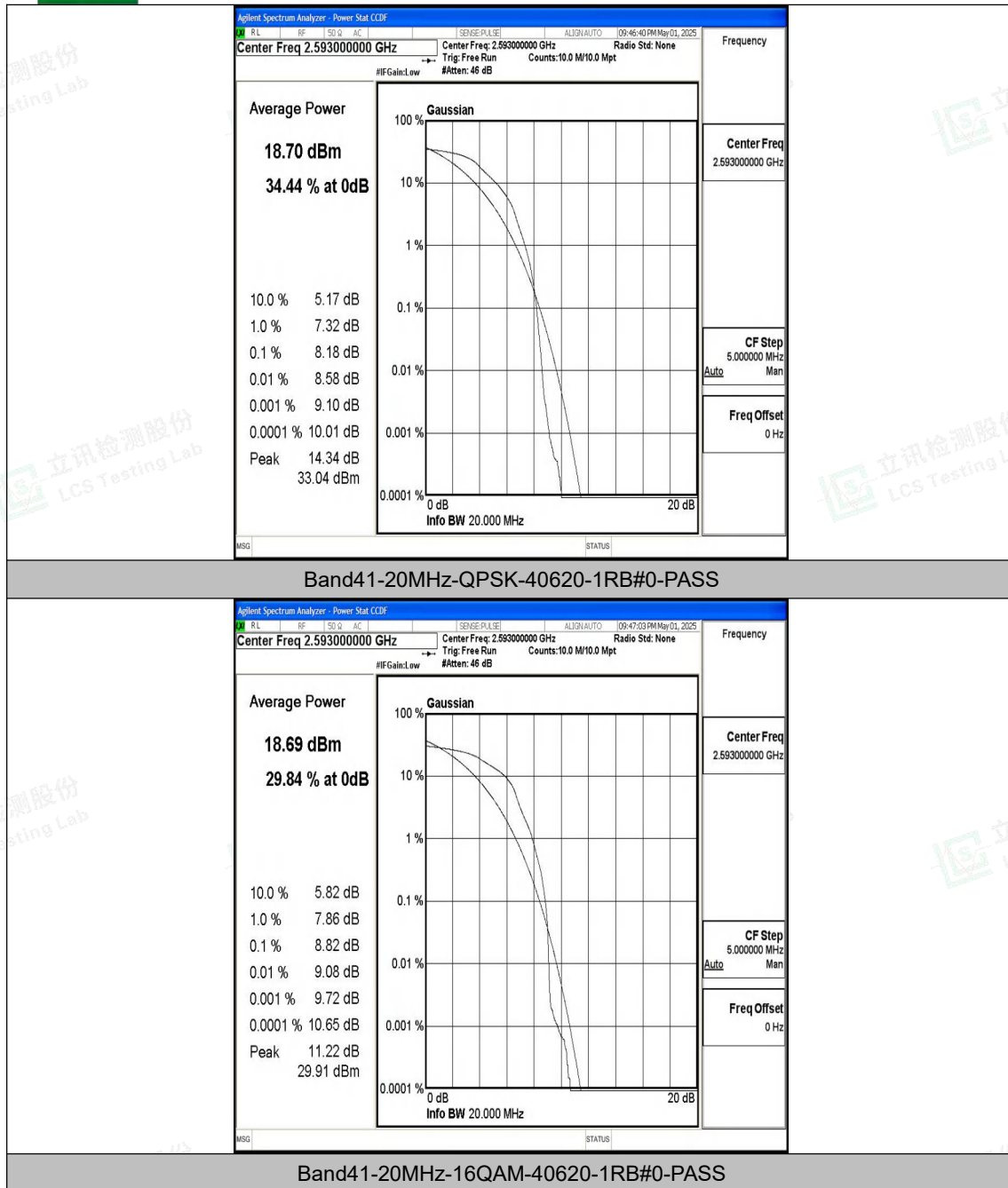


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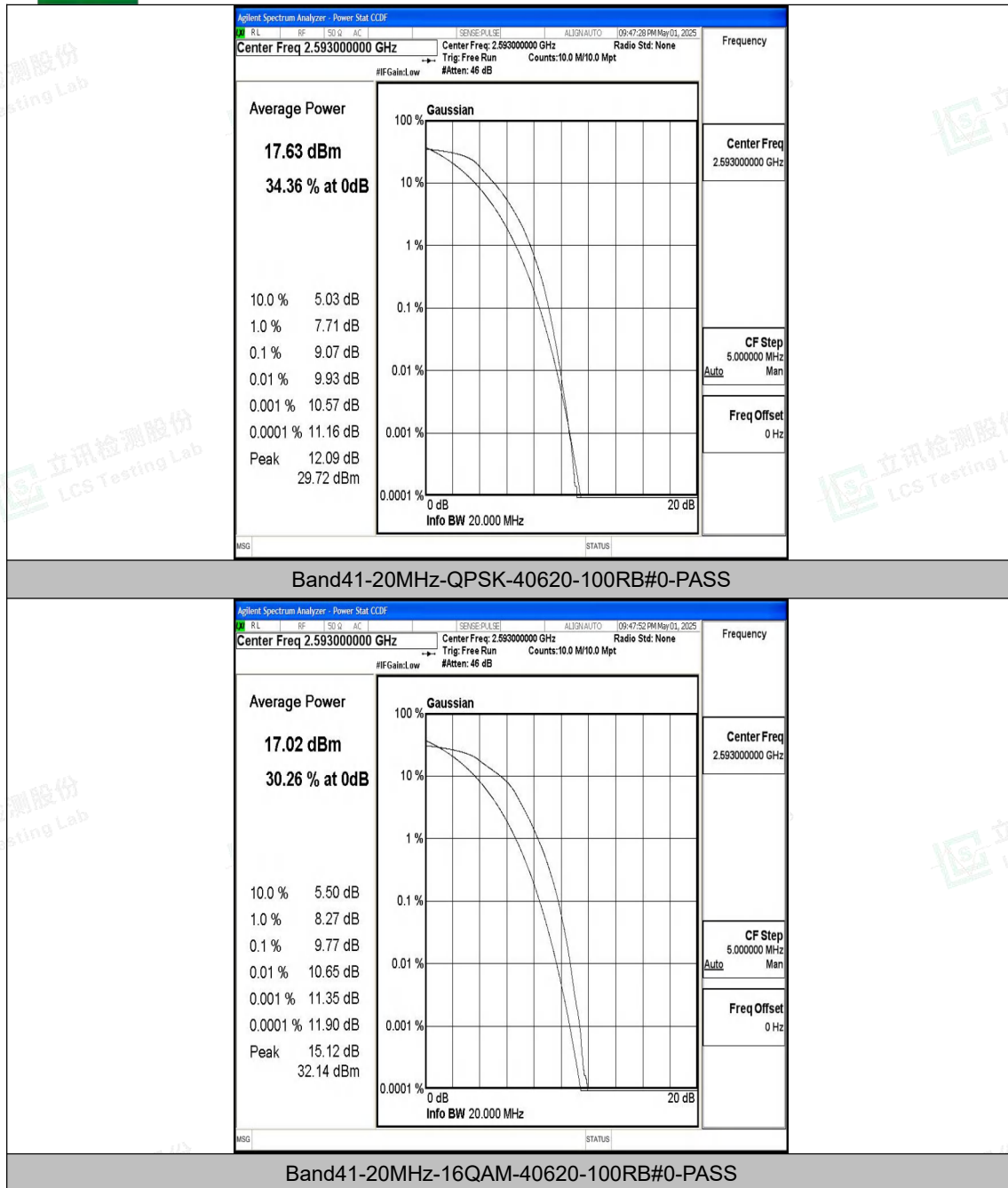


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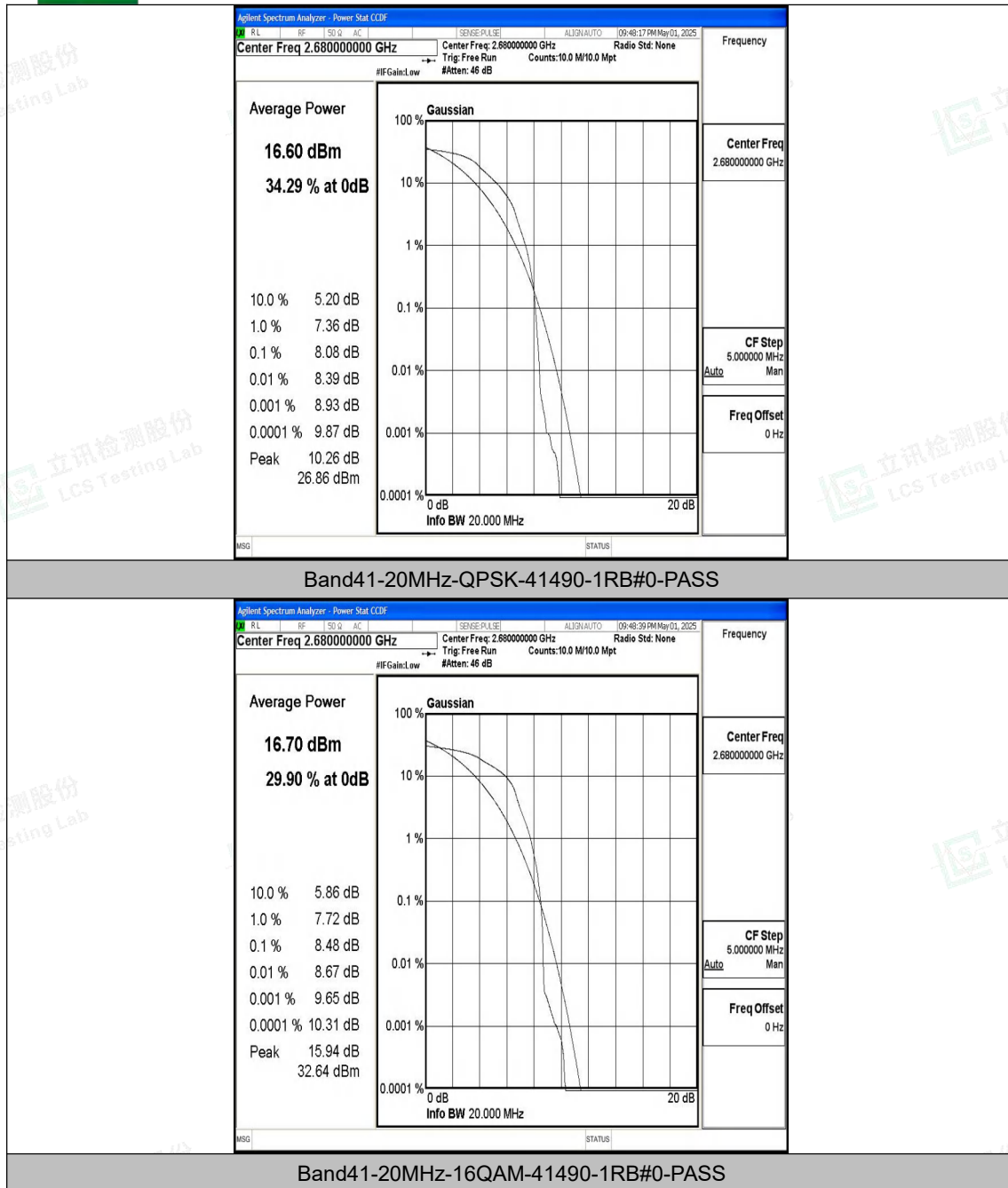


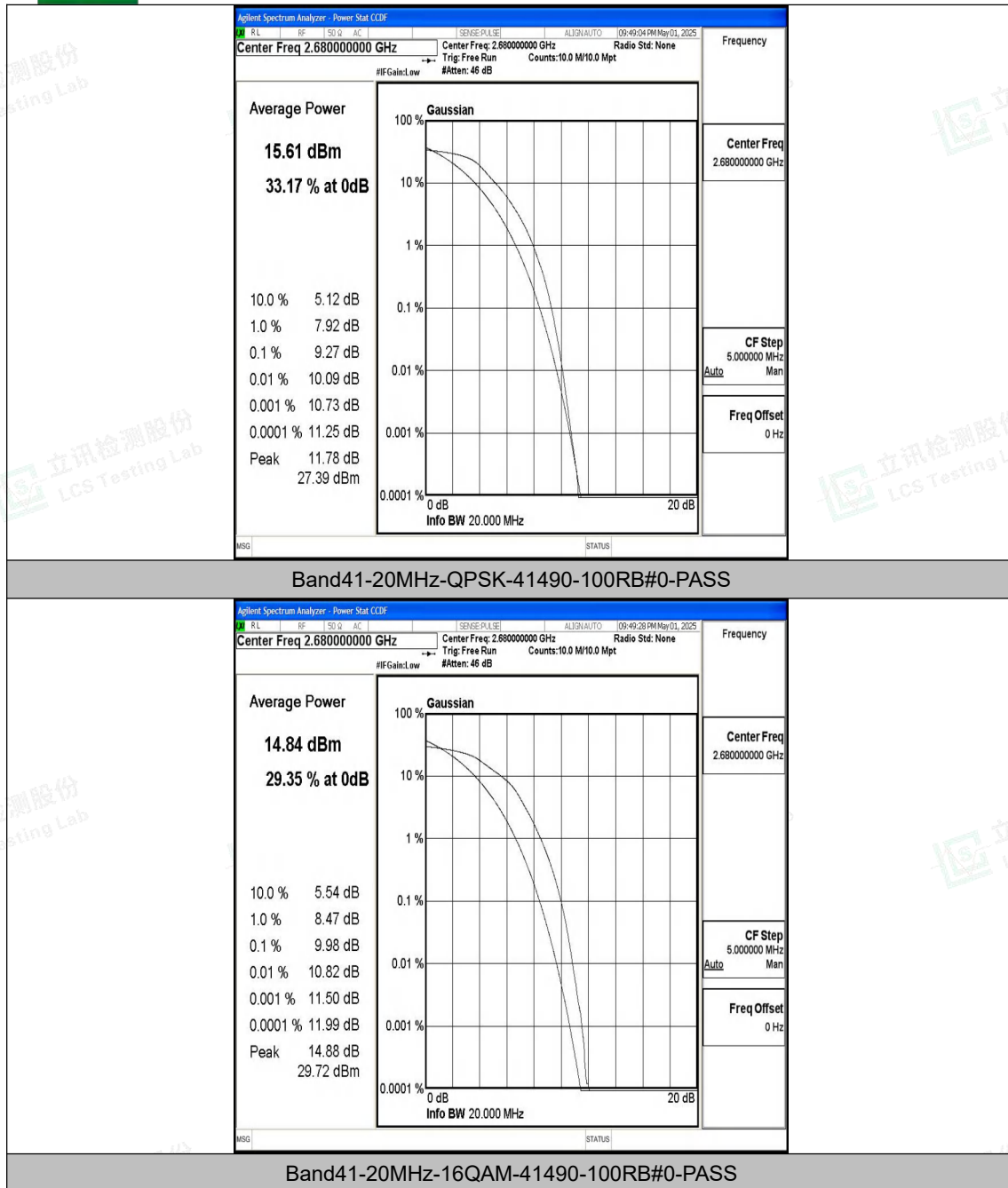
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K.3 26dB Bandwidth and Occupied Bandwidth

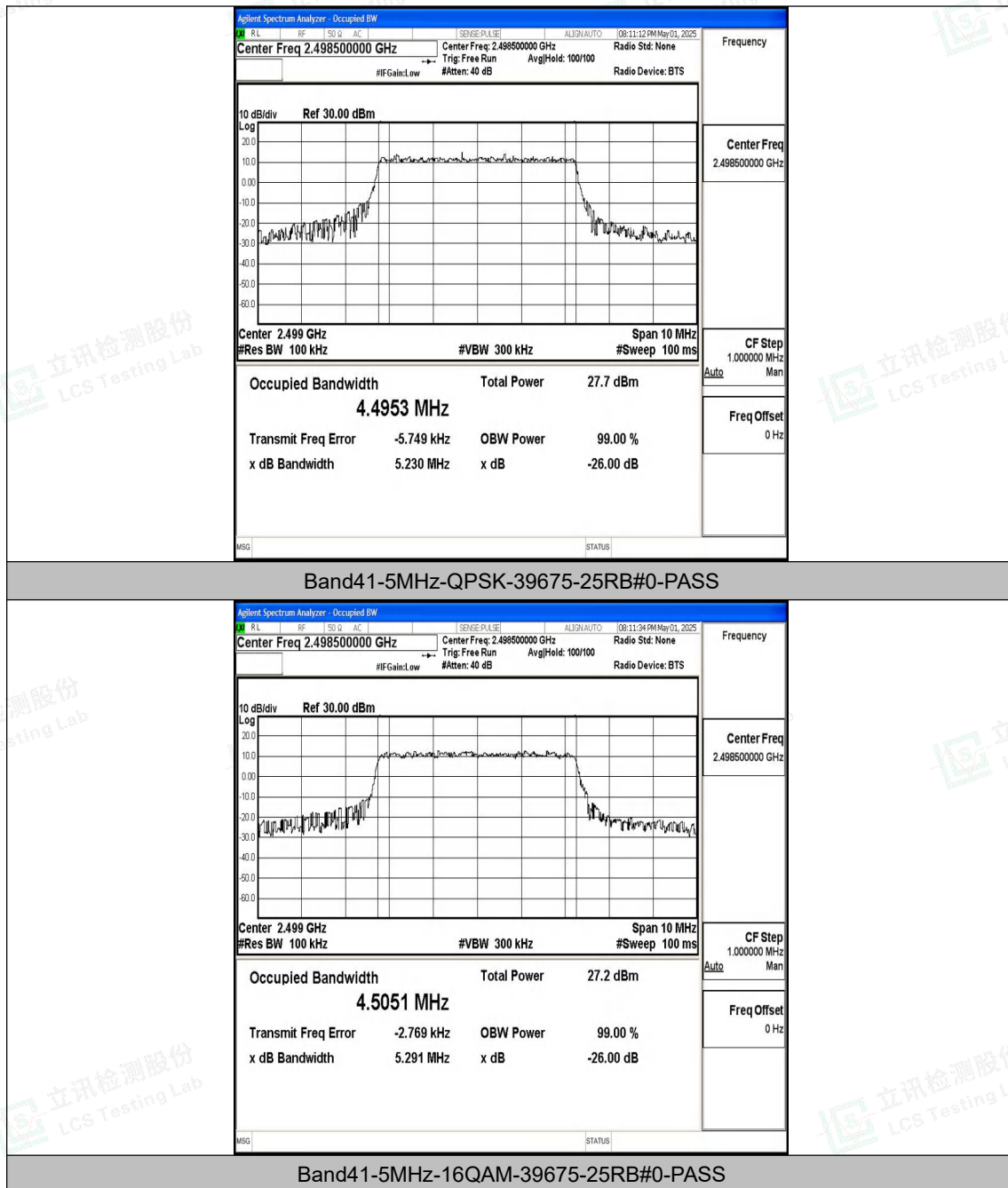
Test Result

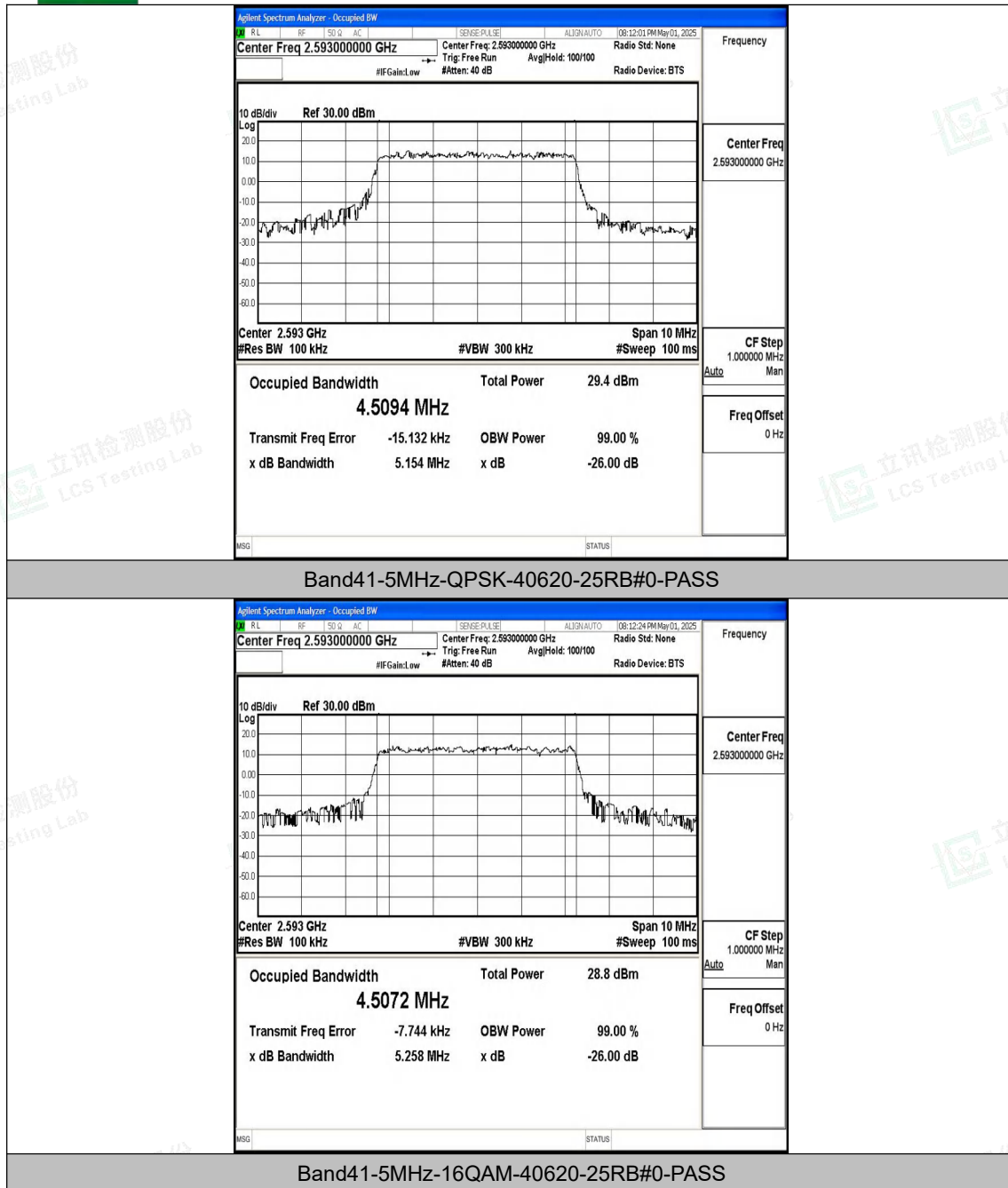
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4953	5.230	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5051	5.291	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5094	5.154	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5072	5.258	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.5018	5.181	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5060	5.166	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9944	9.996	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9755	10.05	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.0054	10.02	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.0018	9.912	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0026	9.871	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.0144	10.83	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.528	16.71	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.572	15.51	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.174	15.65	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.502	15.37	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.540	16.50	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.488	15.58	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.026	20.61	PASS
Band41	20MHz	16QAM	39750	100RB#0	18.014	20.48	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.624	20.39	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.992	20.88	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.916	20.23	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.907	20.46	PASS

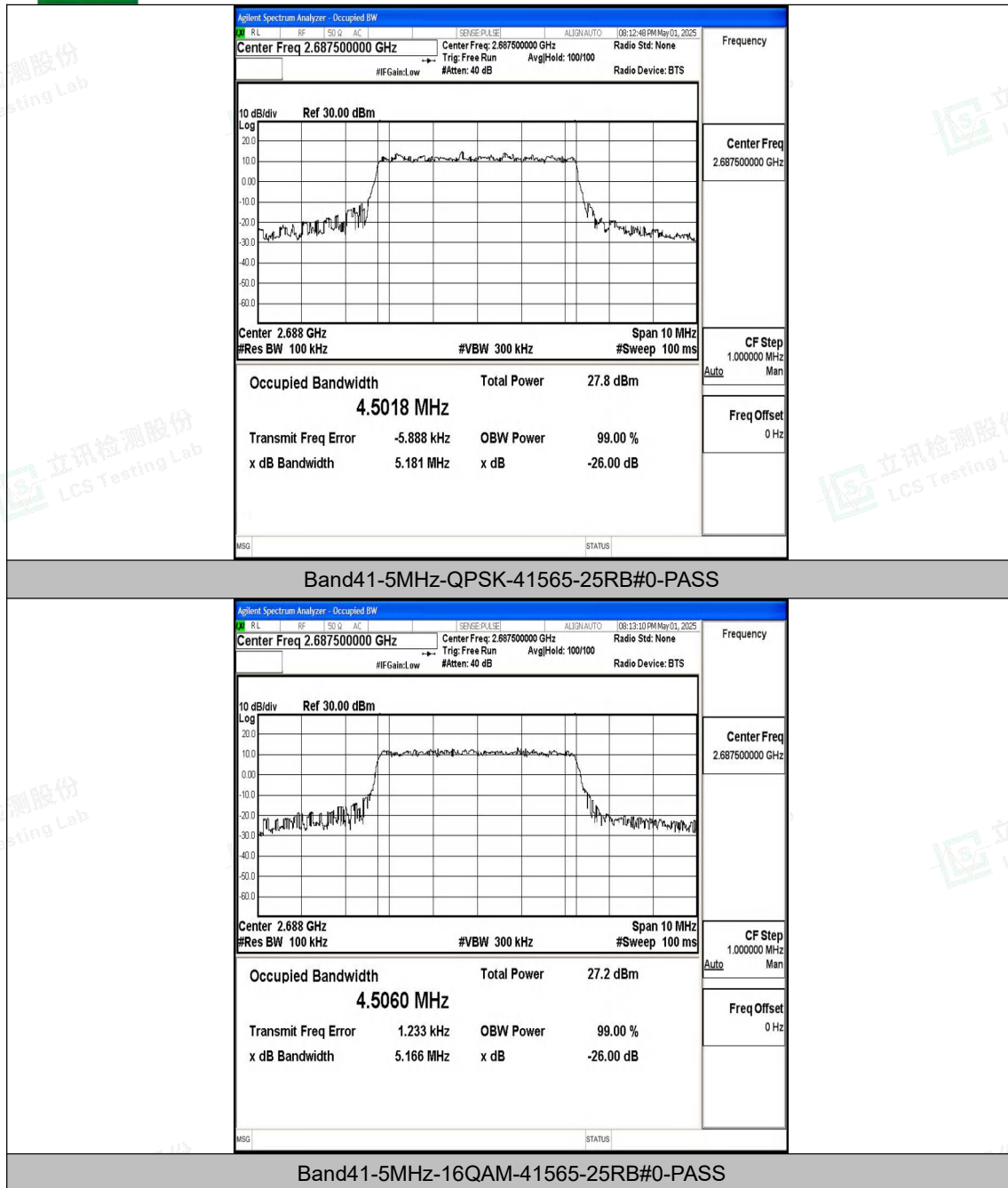




Test Graphs





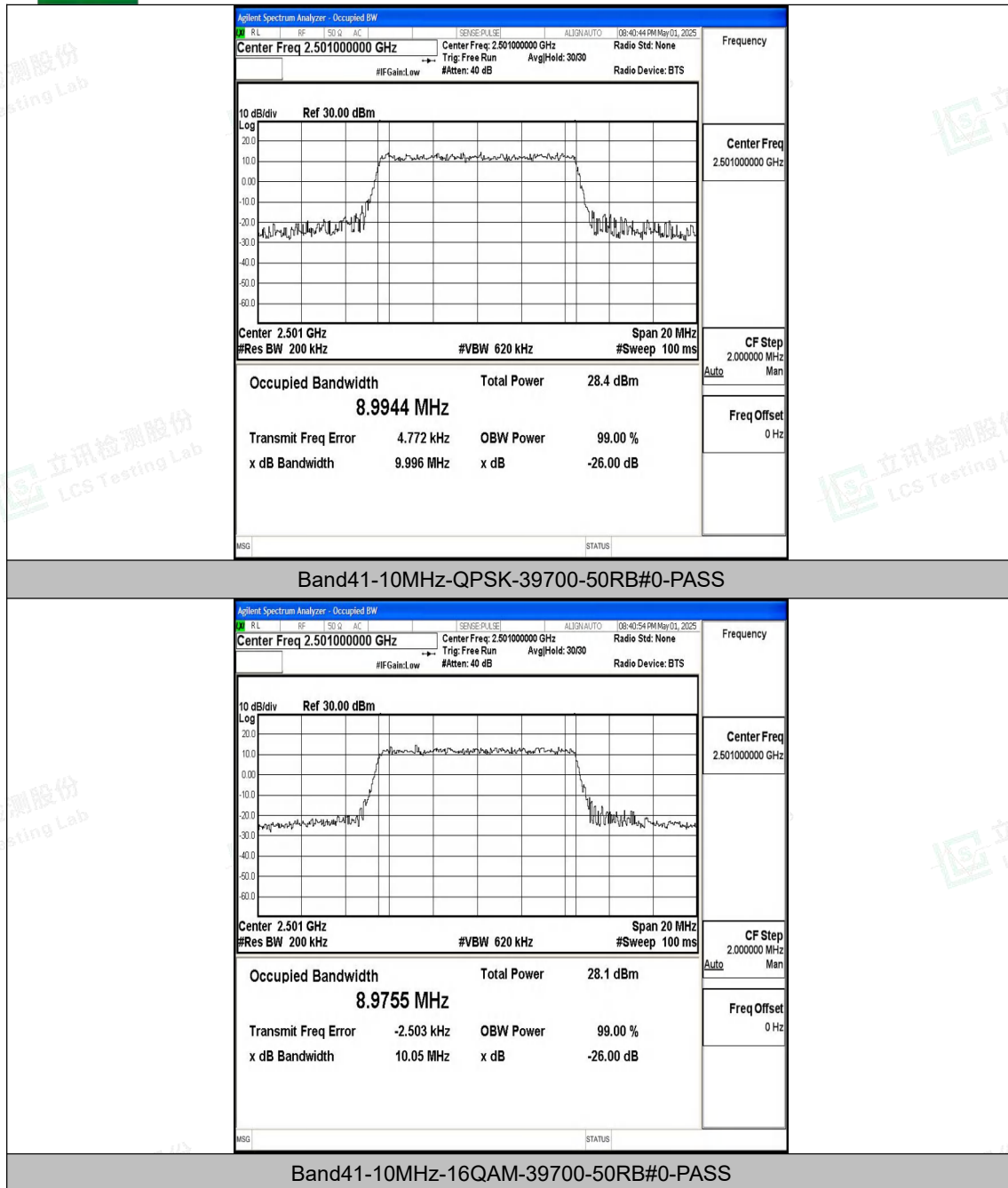


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