



Appendix N: Test Data for E-UTRA Band 38

Product Name: Rugged Handheld Computer

Test Model: EA530

Environmental Conditions

Temperature:	24.4°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



N.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.41	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.33	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.41	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.94	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.32	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.34	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.54	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.86	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.54	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.85	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.47	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.80	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.50	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.88	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.95	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.94	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.95	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.90	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.94	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.91	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.16	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.41	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.16	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.40	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.26	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.35	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.13	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.53	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.96	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.64	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.97	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.85	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.94	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.53	PASS
Band38	5MHz	QPSK	38225	12RB#0	20.96	PASS
Band38	5MHz	16QAM	38225	12RB#0	20.22	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Band38	5MHz	QPSK	38225	12RB#6	20.91	PASS
Band38	5MHz	16QAM	38225	12RB#6	20.22	PASS
Band38	5MHz	QPSK	38225	12RB#13	20.92	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.15	PASS
Band38	5MHz	QPSK	38225	25RB#0	20.80	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.29	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.95	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.54	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.78	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.56	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.66	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.52	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.61	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.93	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.55	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.94	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.50	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.91	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.60	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.94	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.33	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.09	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.21	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.04	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.28	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.94	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.56	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.08	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.45	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.08	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.38	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.09	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.54	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.71	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.37	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.17	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.24	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.04	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.30	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.11	PASS





Band38	10MHz	QPSK	38200	25RB#0	21.10	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.52	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.10	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.52	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.13	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.38	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.17	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.54	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.83	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.61	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.70	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.48	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.73	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.56	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.52	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.52	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.52	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.53	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.52	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.53	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.53	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.89	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.10	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.40	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.91	PASS
Band38	15MHz	16QAM	38000	1RB#38	20.79	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.91	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.24	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.41	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.41	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.41	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.41	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.41	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.41	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.41	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.84	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.41	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.35	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.29	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.10	PASS





Band38	15MHz	QPSK	38175	1RB#74	22.23	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.05	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.13	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.14	PASS
Band38	15MHz	QPSK	38175	38RB#18	21.14	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.14	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.14	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.14	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.14	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.59	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.29	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.83	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.20	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.72	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.13	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.77	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.60	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.04	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.67	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.04	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.49	PASS
Band38	20MHz	16QAM	37850	50RB#50	20.99	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.52	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.90	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.25	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.79	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.60	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.67	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.50	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.66	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.47	PASS
Band38	20MHz	16QAM	38000	50RB#0	20.83	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.48	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.84	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.41	PASS
Band38	20MHz	16QAM	38000	50RB#50	20.88	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.20	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.57	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.15	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.50	PASS





Band38	20MHz	QPSK	38150	1RB#49	22.01	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.31	PASS
Band38	20MHz	QPSK	38150	1RB#99	21.91	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.13	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.29	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.76	PASS
Band38	20MHz	QPSK	38150	50RB#25	21.34	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.76	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.14	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.61	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.21	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.68	PASS





N.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	8.58	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.79	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.08	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.61	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.58	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	9.07	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.01	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.71	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.23	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.59	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	8.88	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.61	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.21	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.05	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.35	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.70	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.61	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.92	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.00	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.62	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.60	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.59	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.96	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.75	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.57	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.95	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.68	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	9.86	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.27	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.01	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.42	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	9.83	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.24	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.55	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.36	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	9.72	13	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

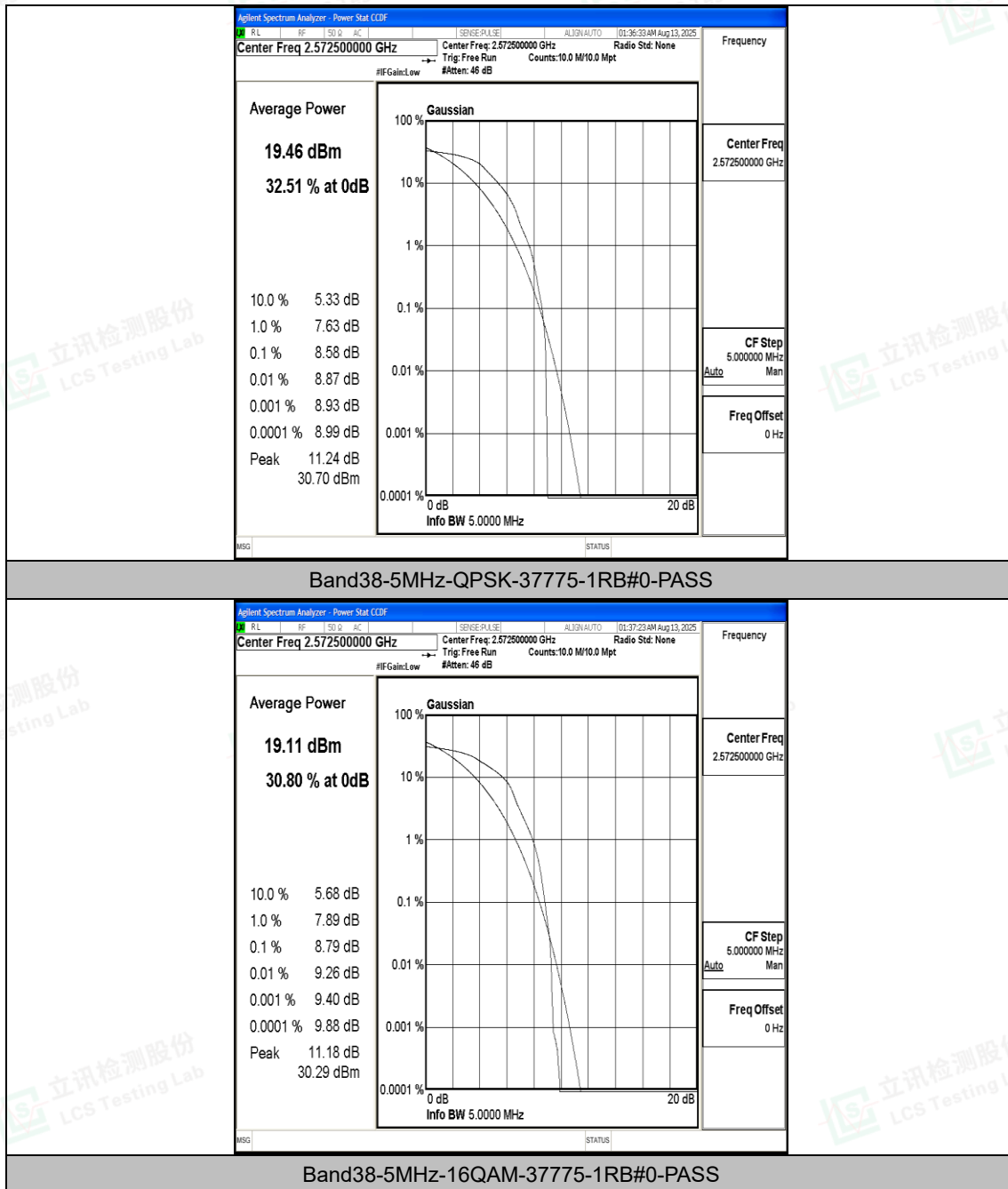


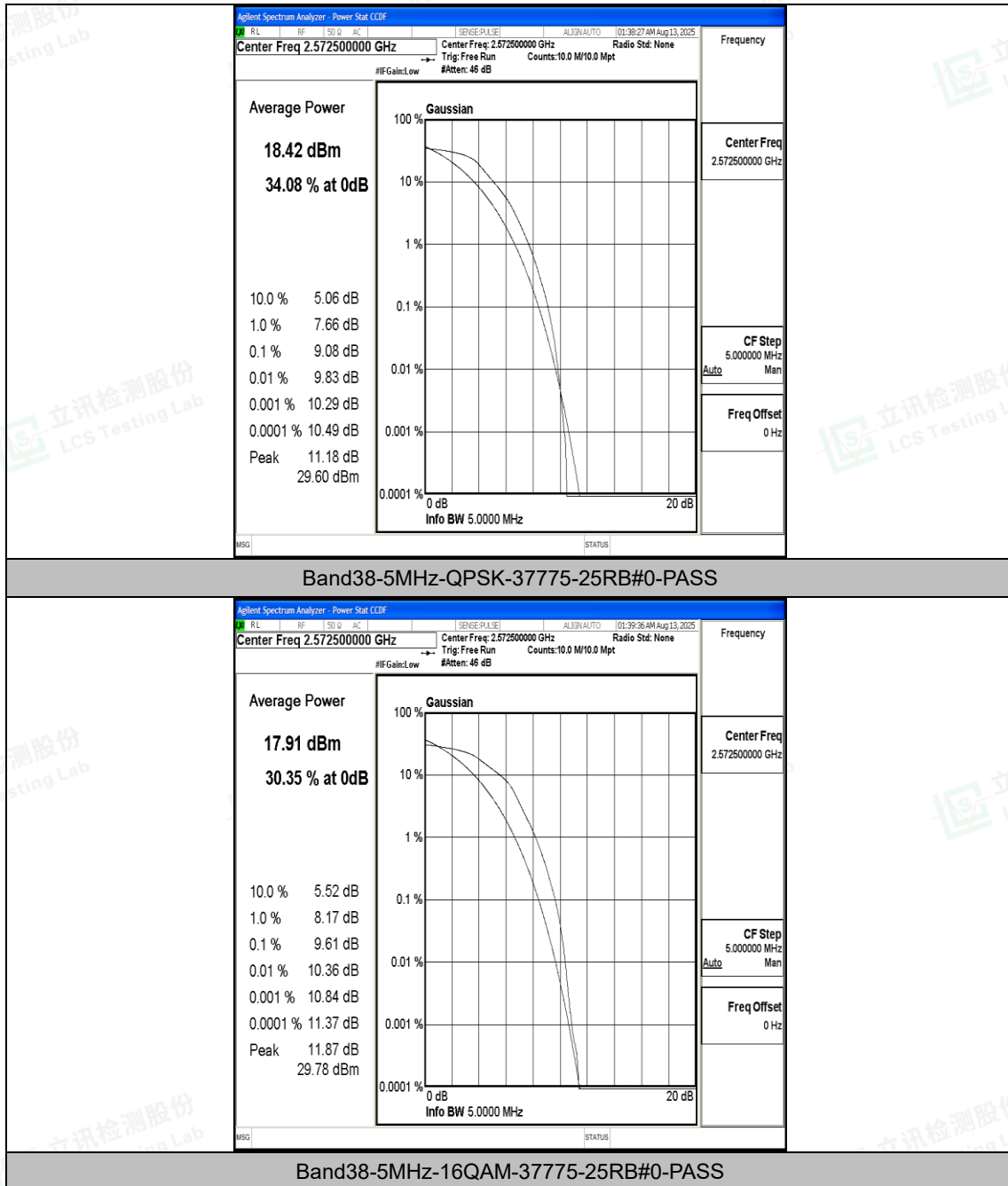
Band38	20MHz	QPSK	37850	1RB#0	8.20	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	9.27	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	9.24	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.65	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.60	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.18	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	8.74	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.98	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.54	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	8.97	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.21	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.37	13	PASS

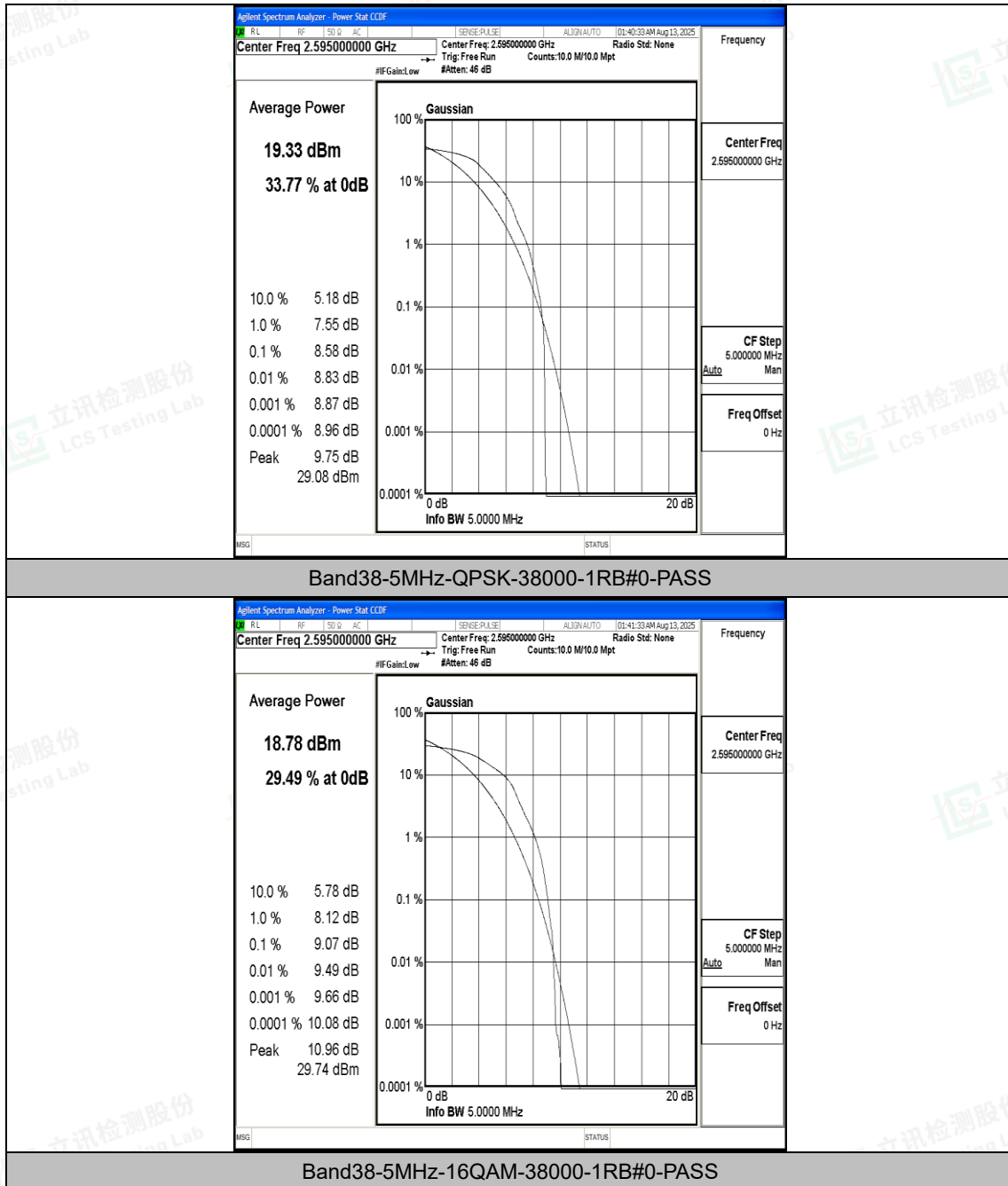


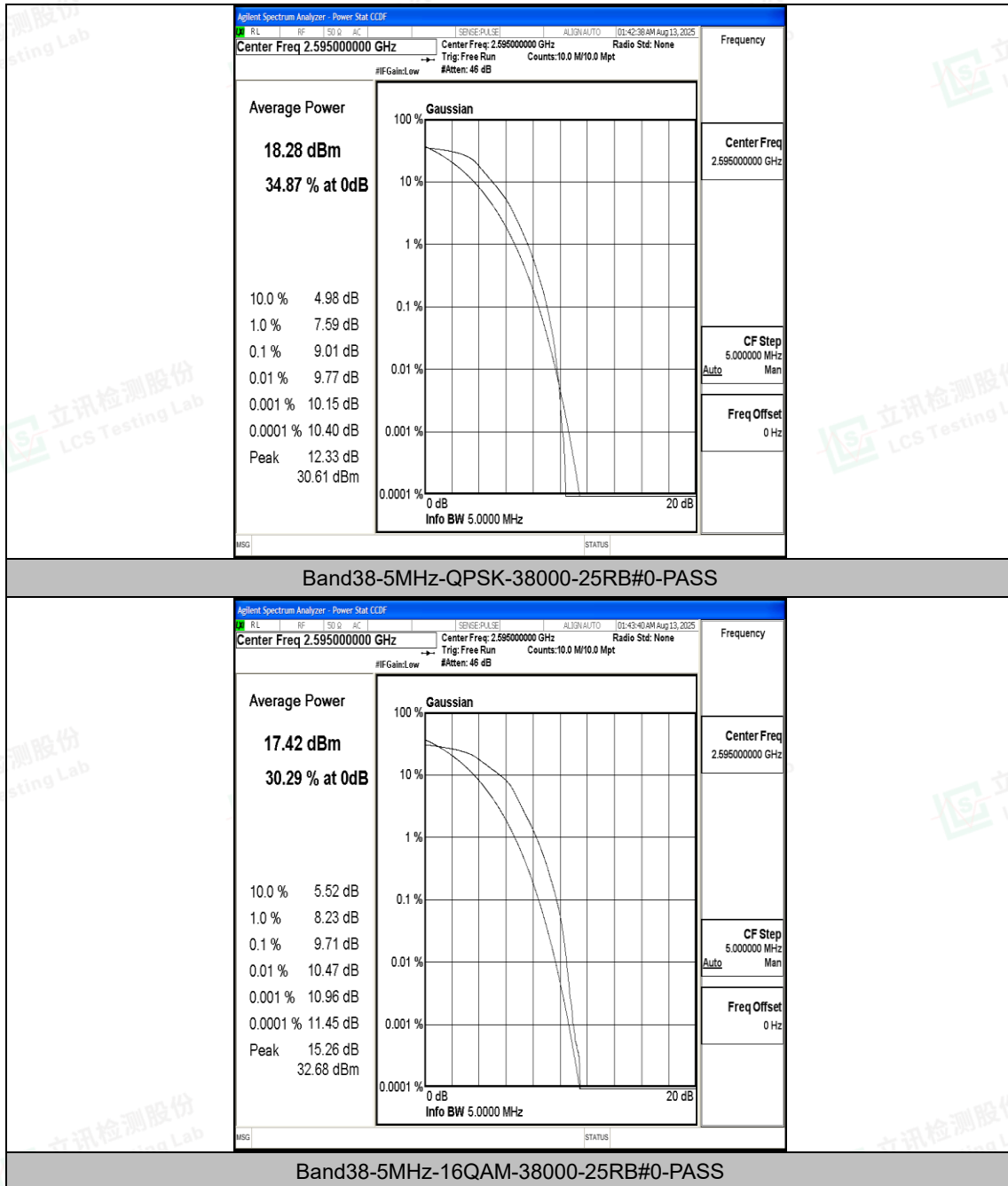


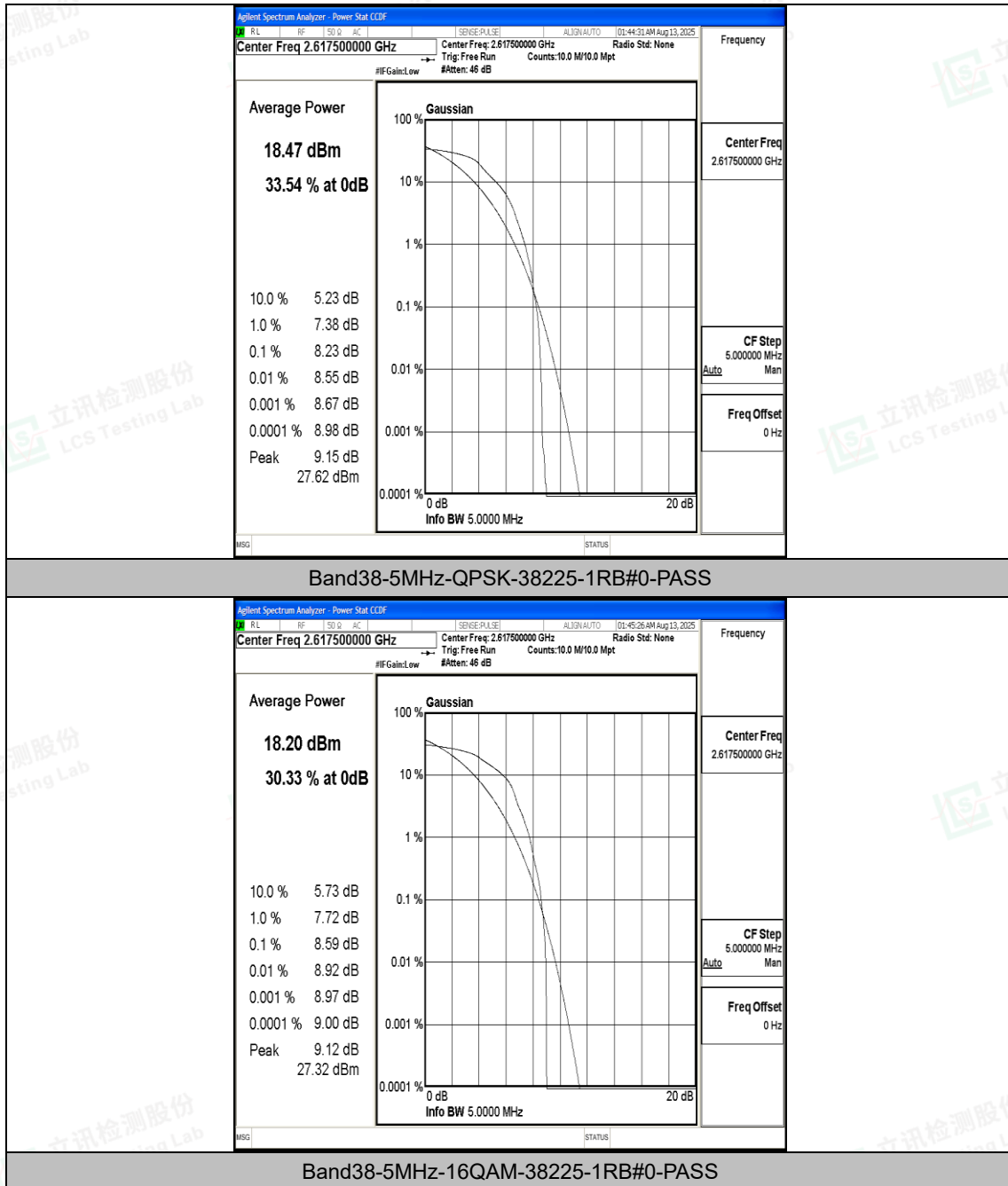
Test Graphs

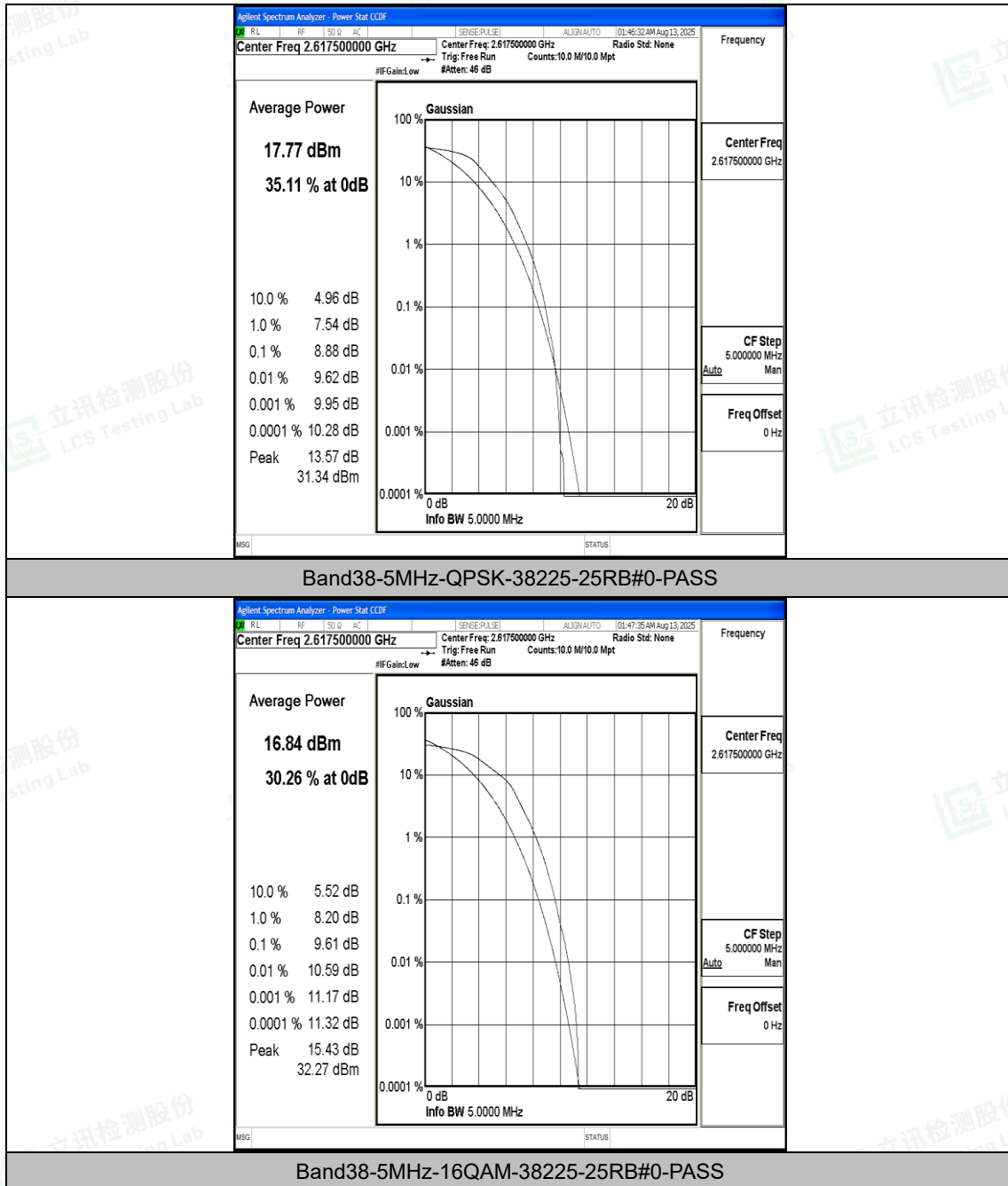


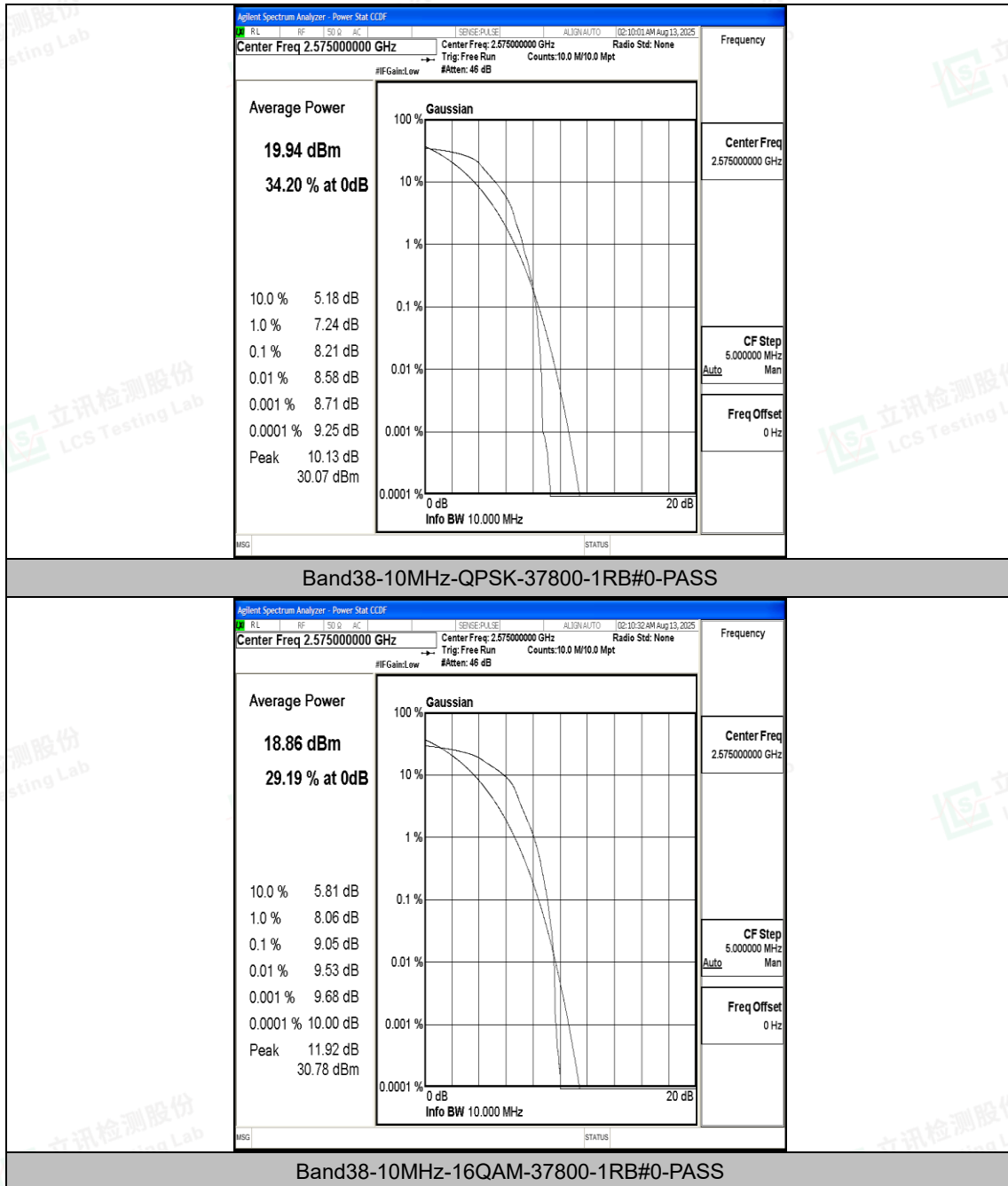


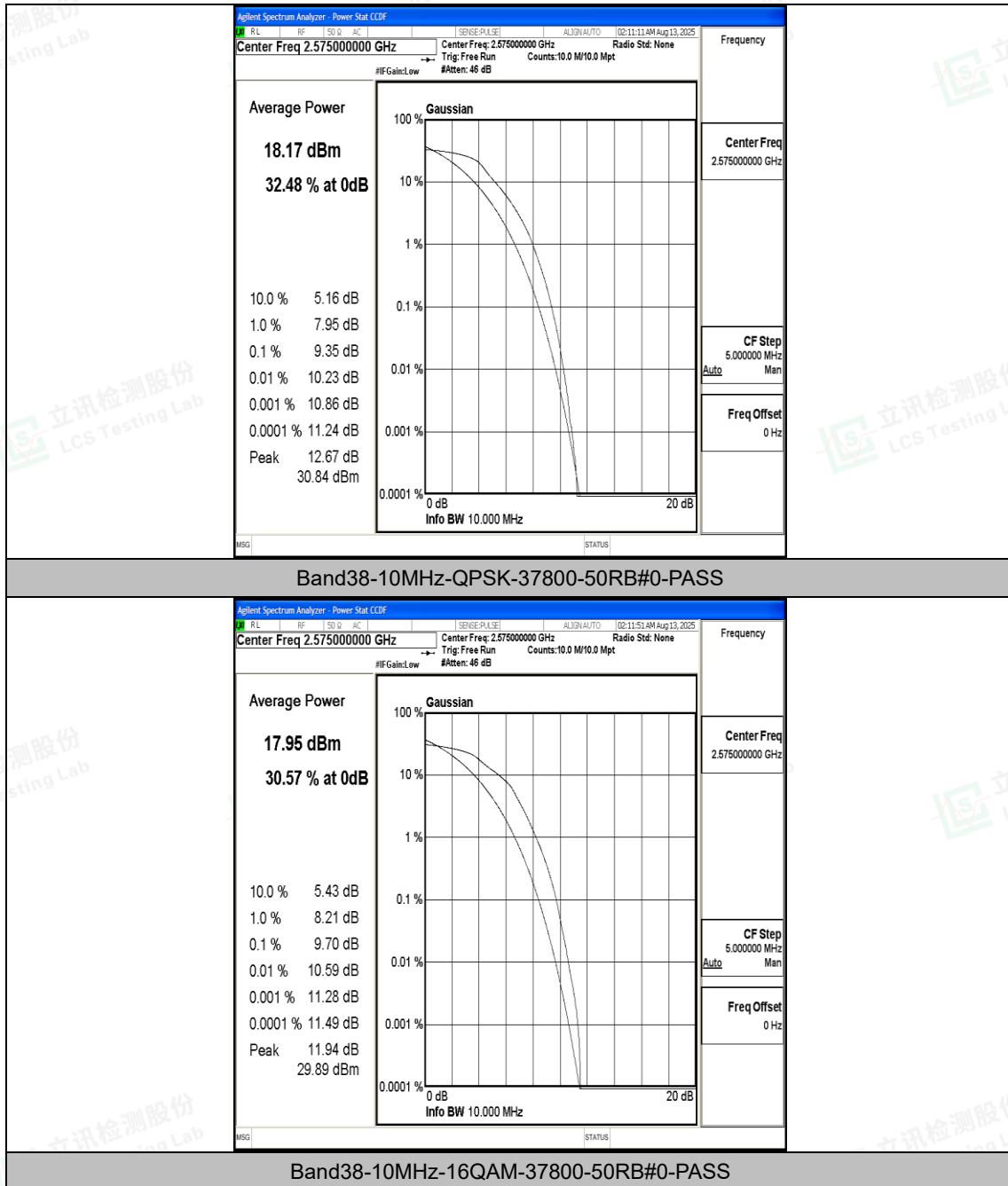


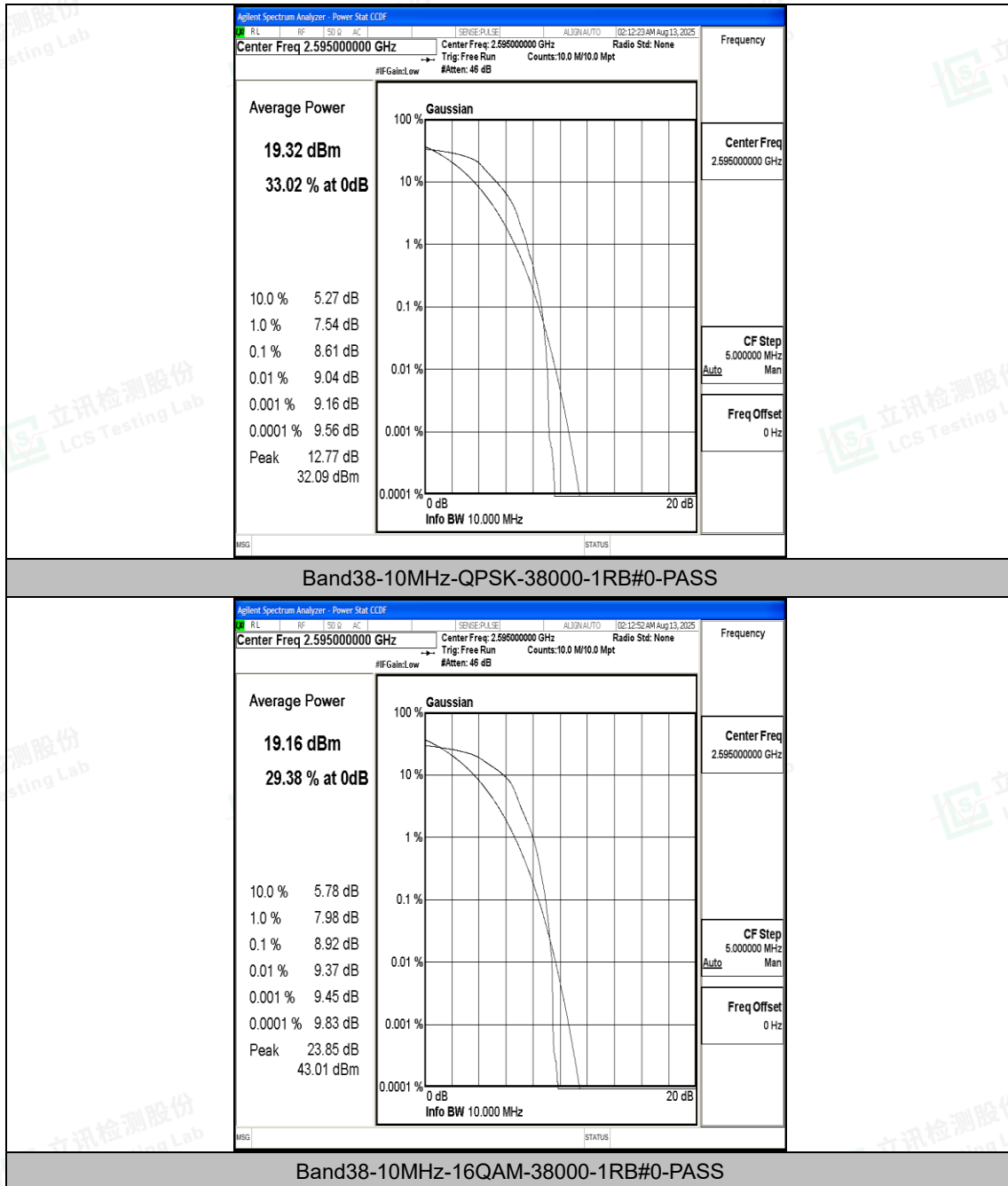


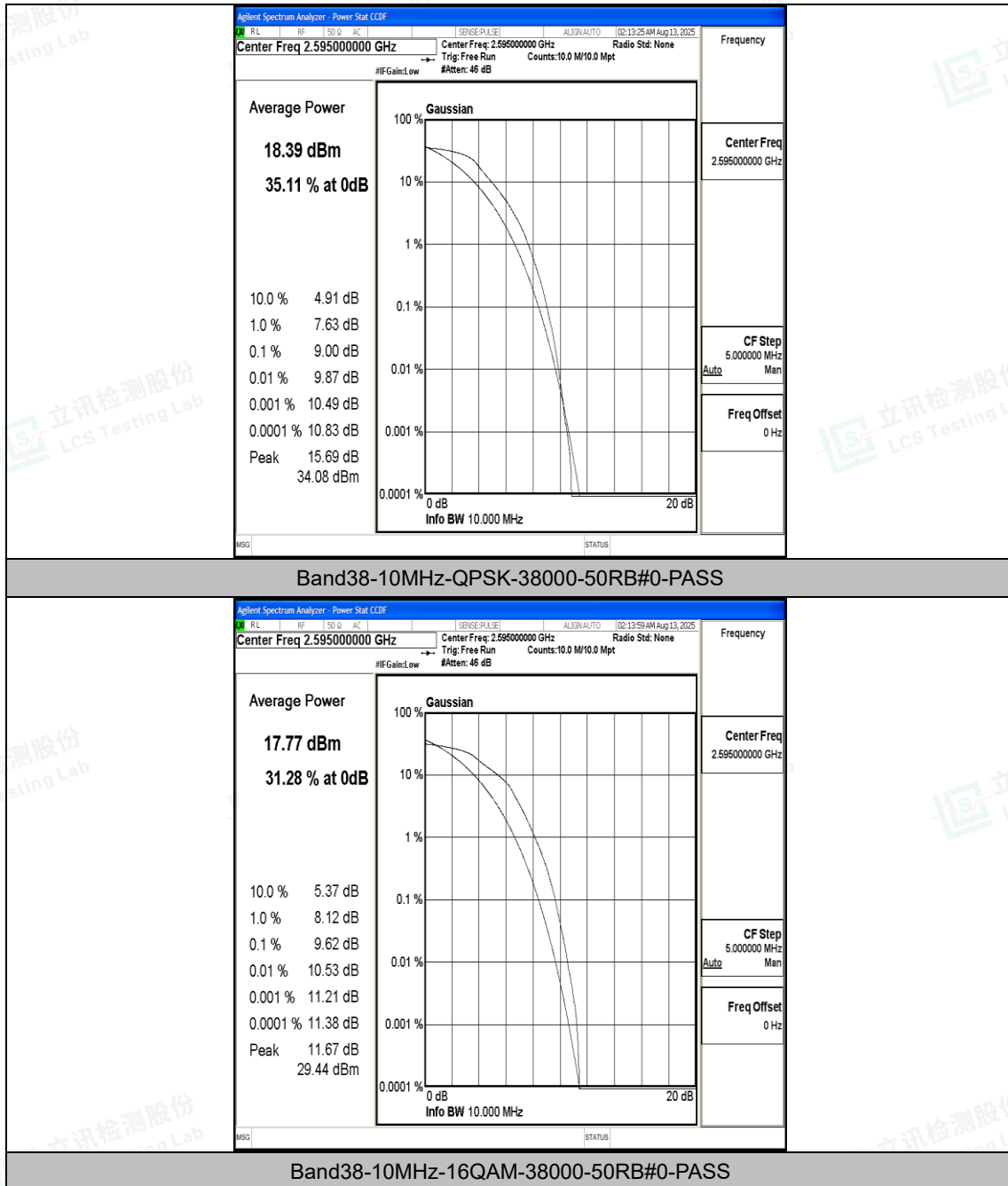


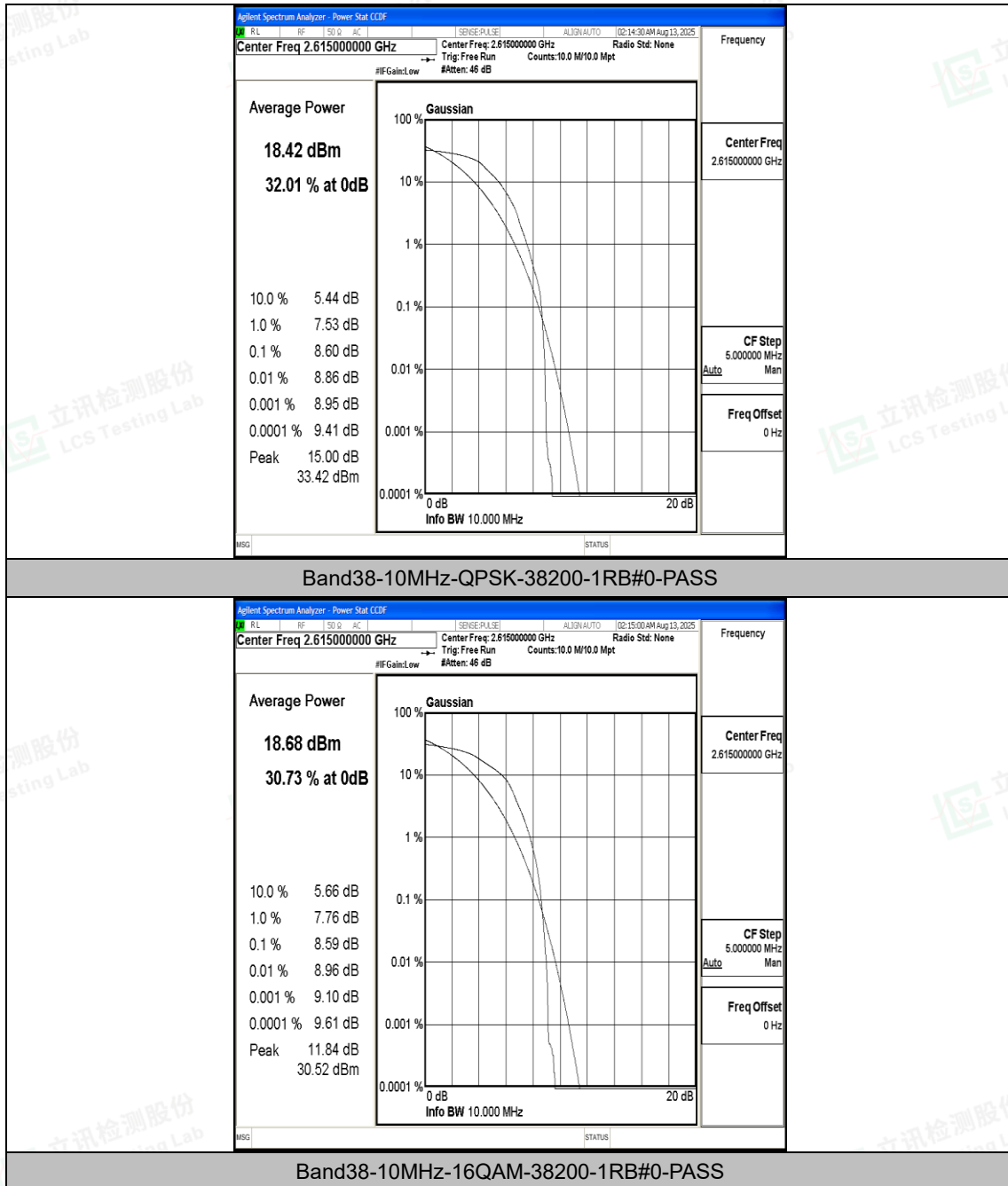


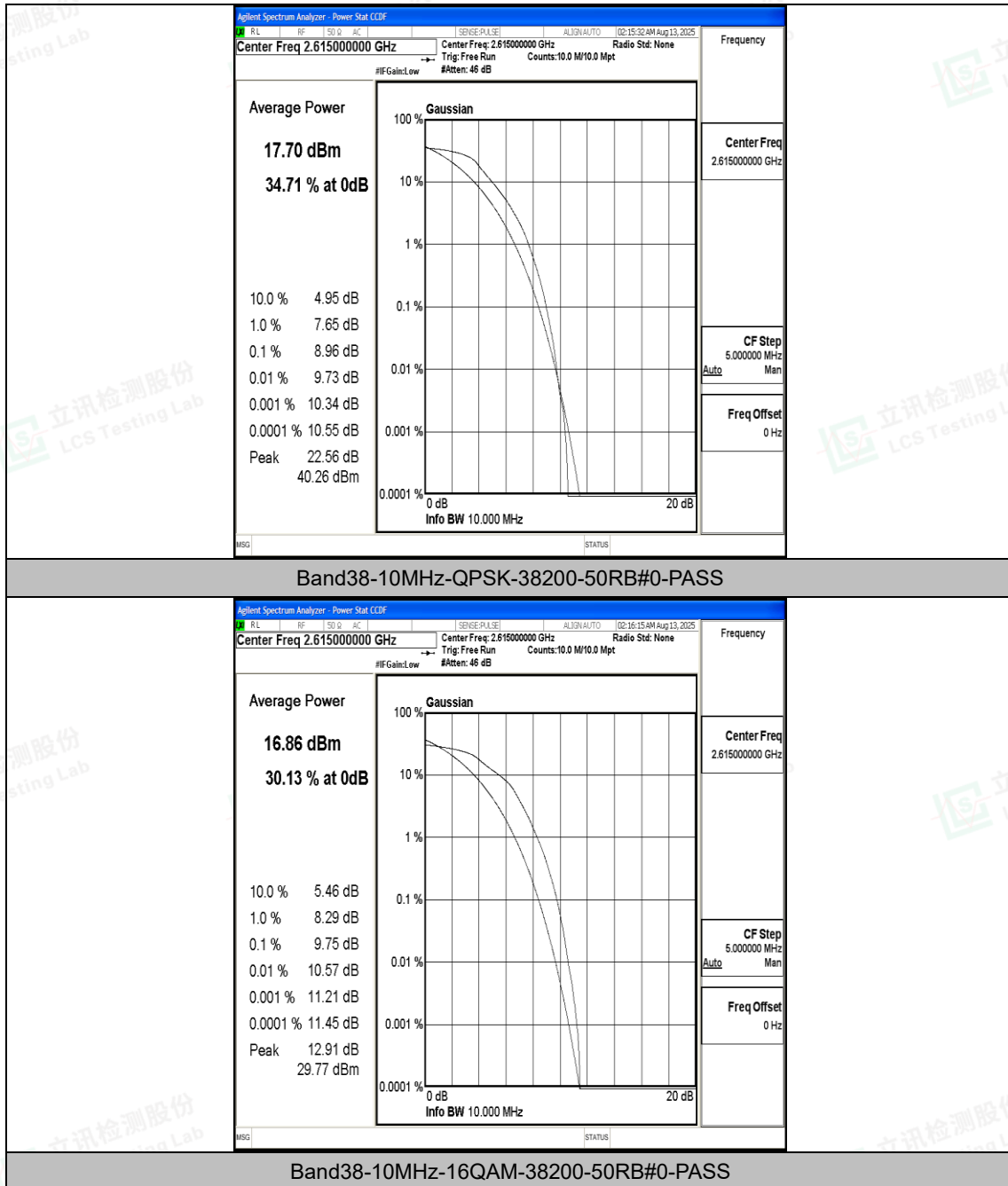


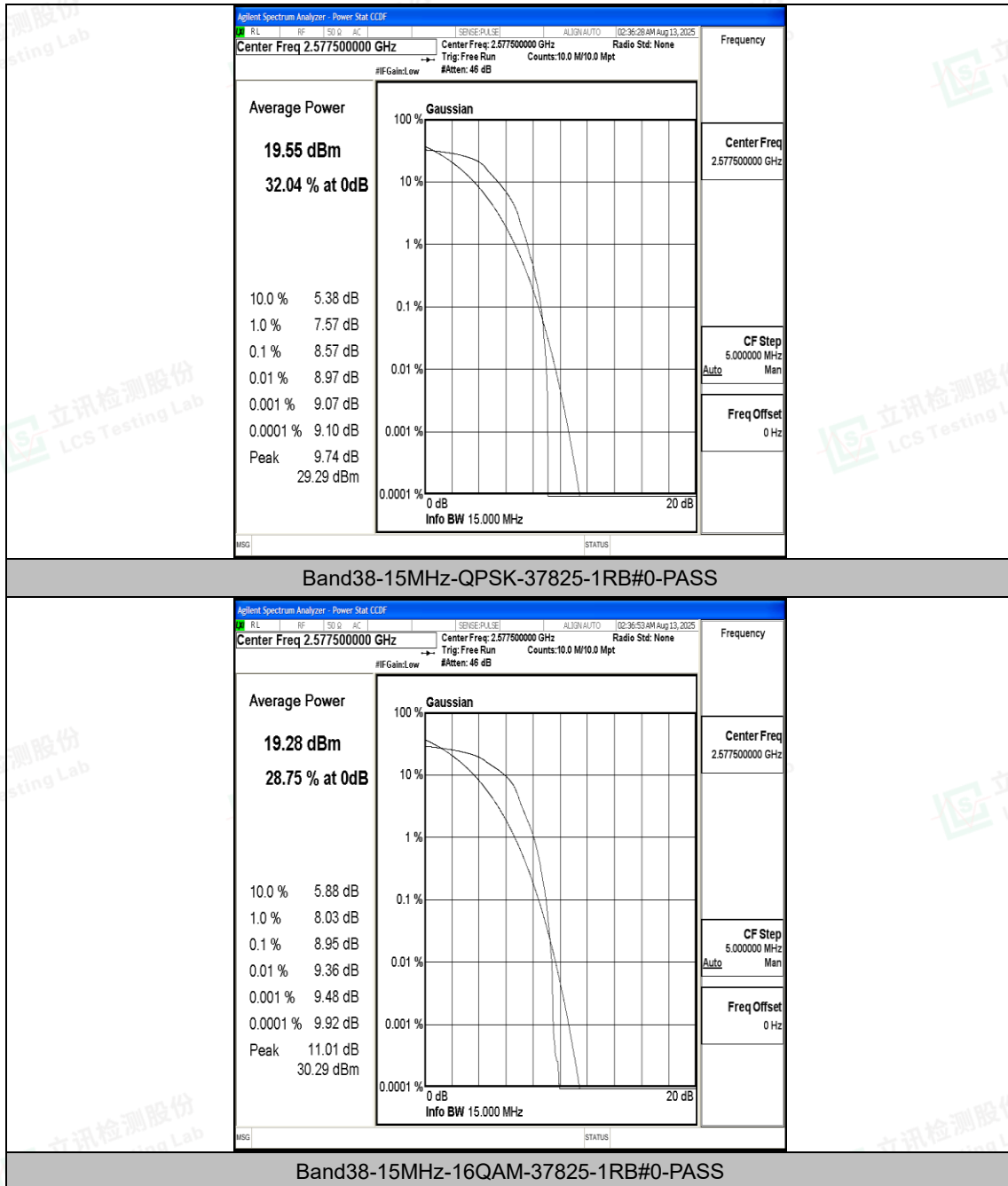


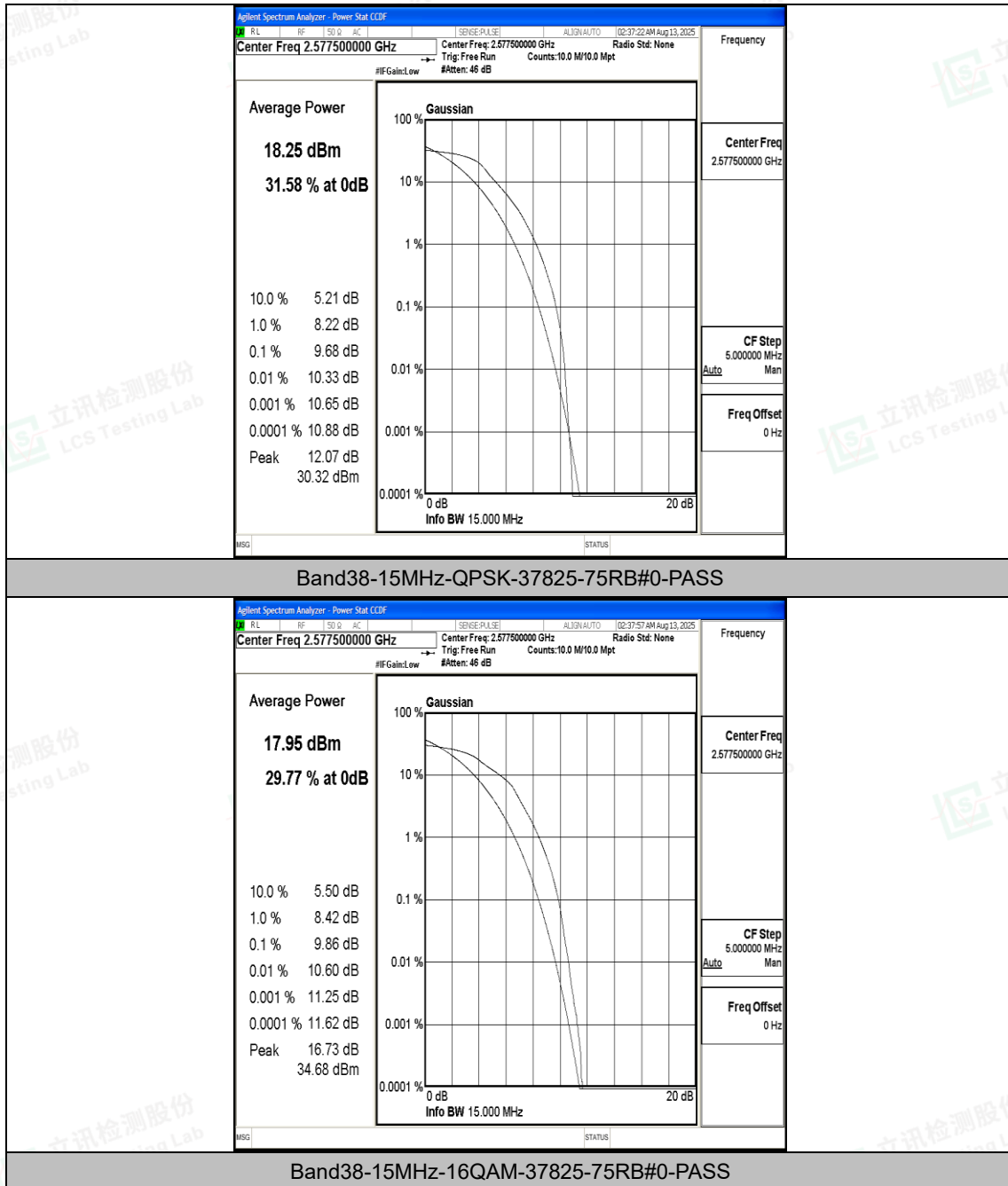


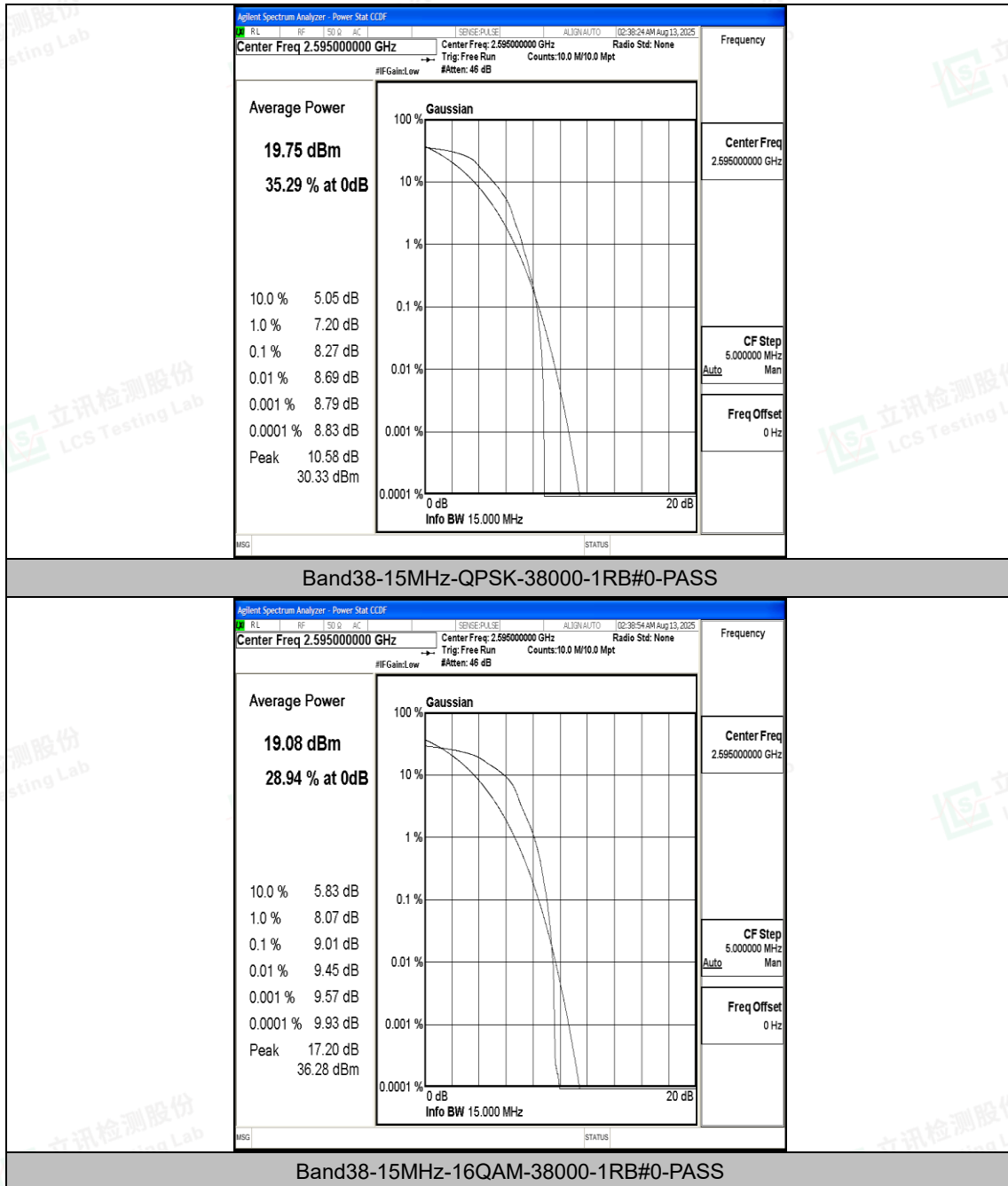


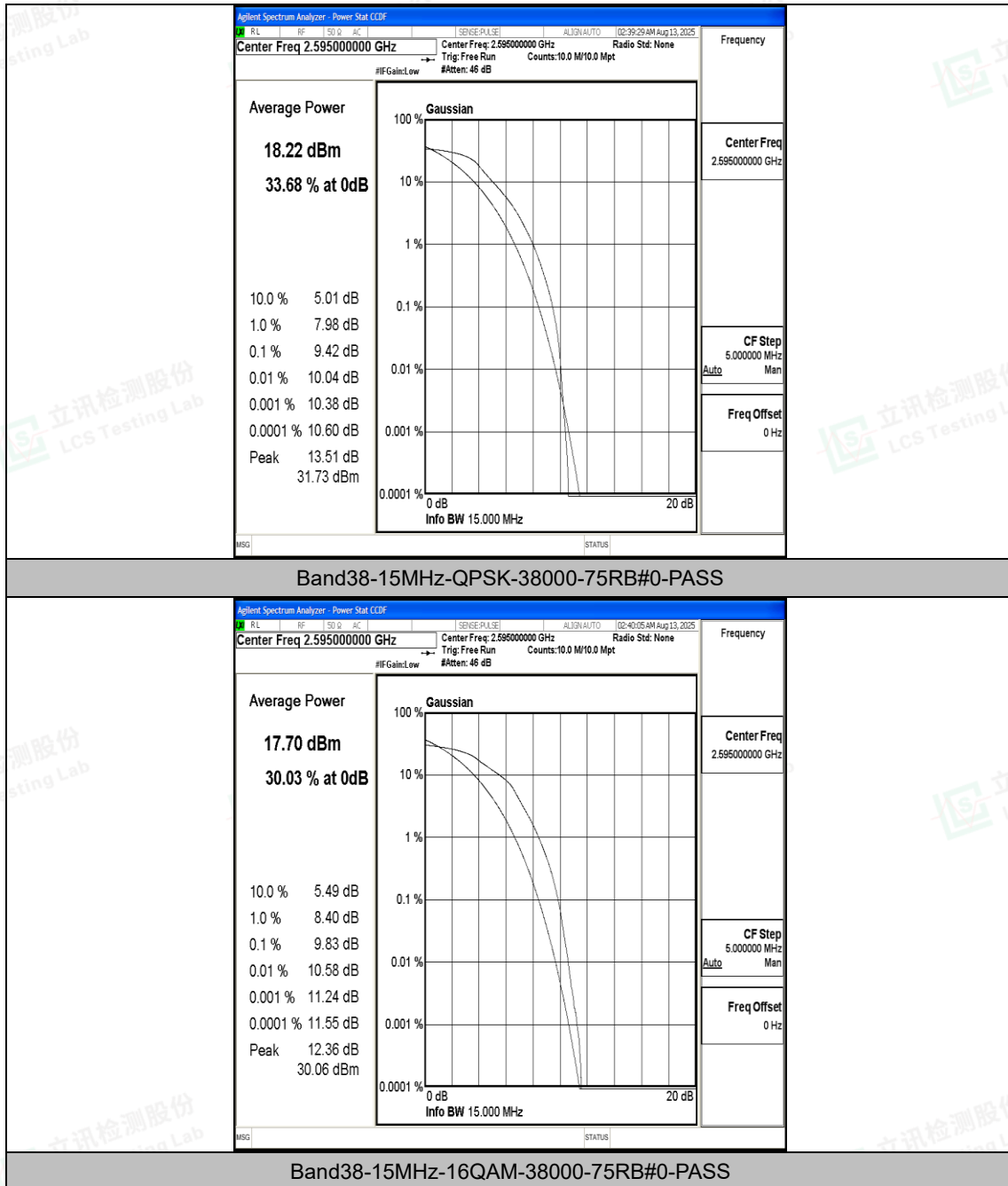


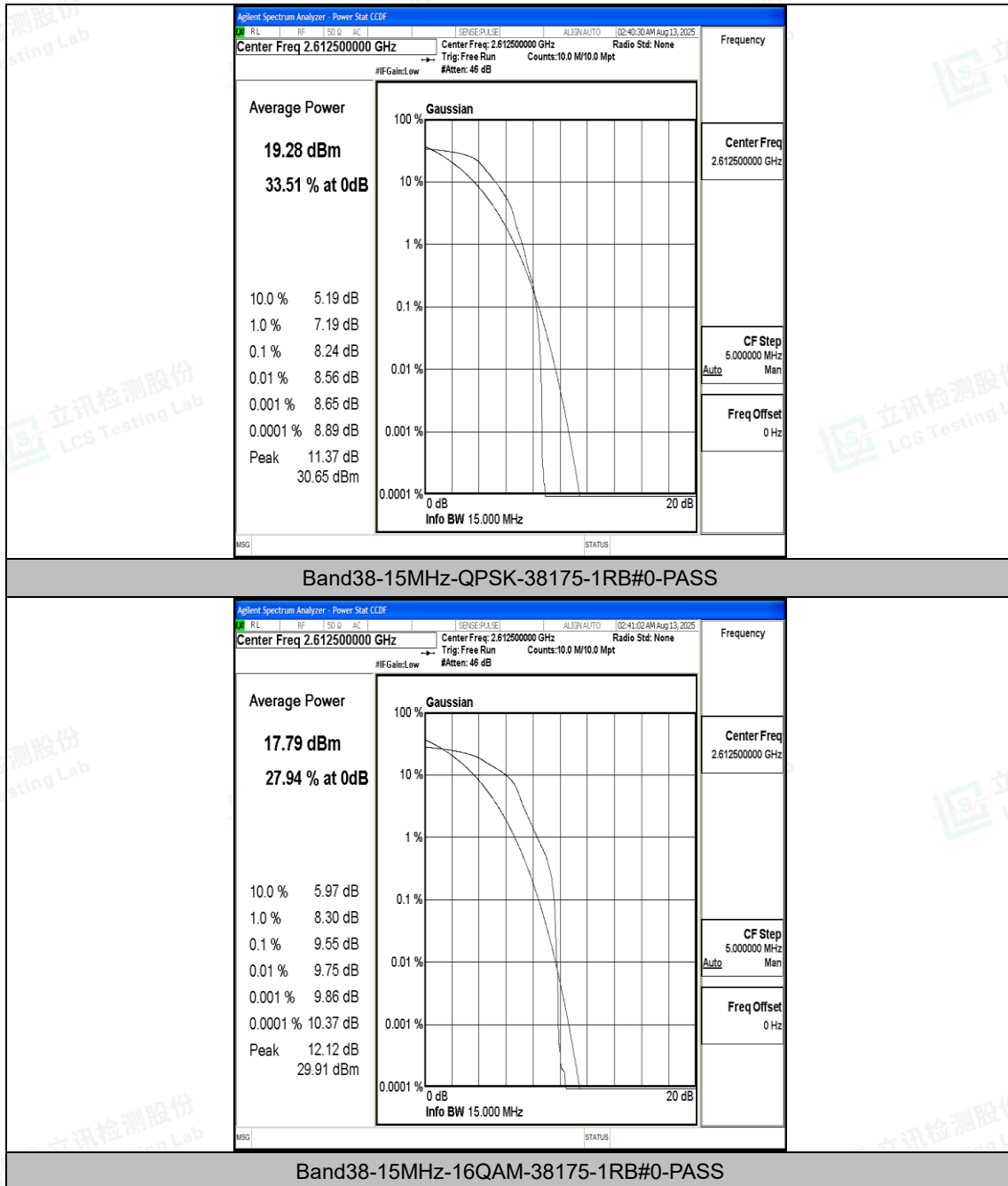


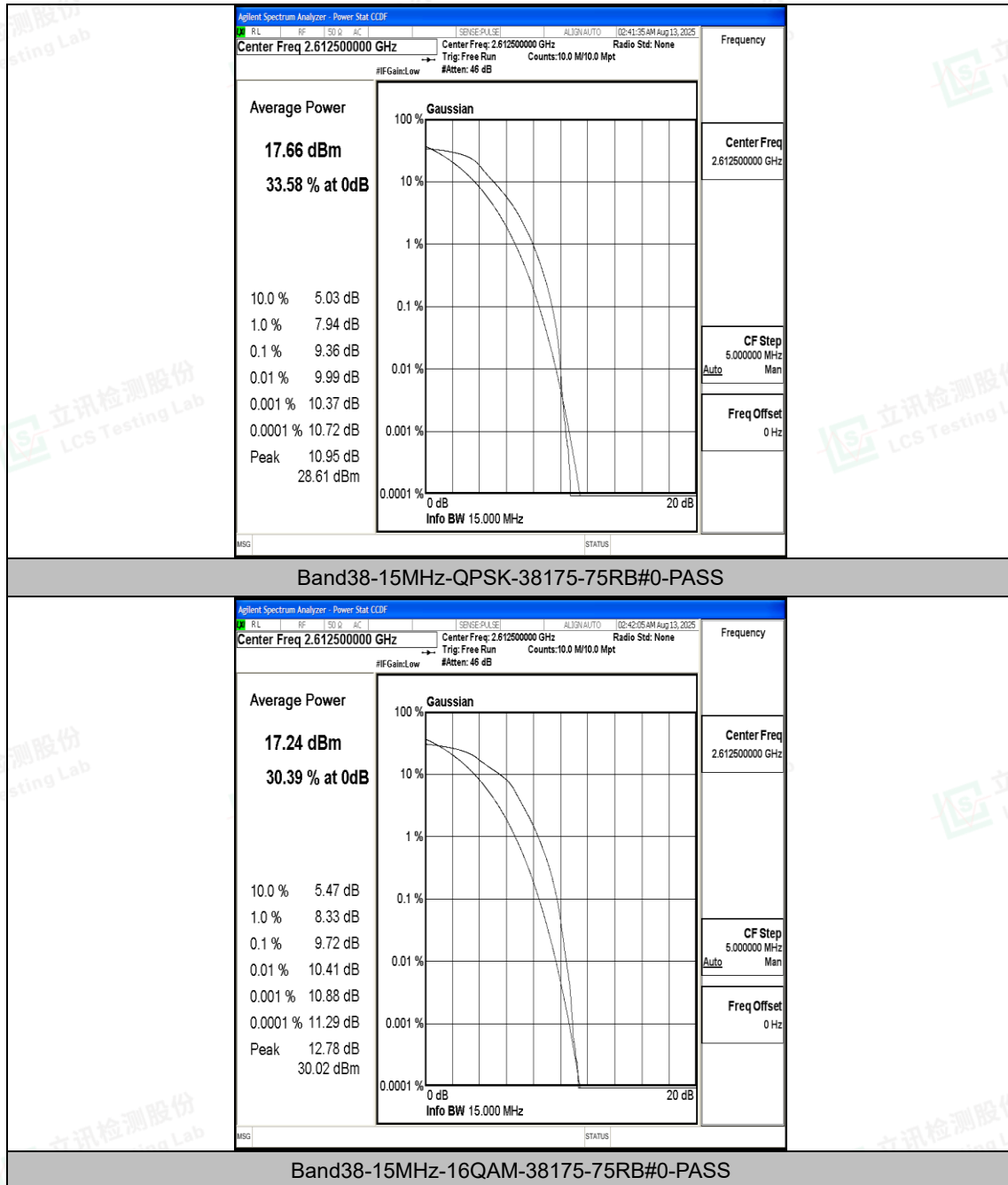


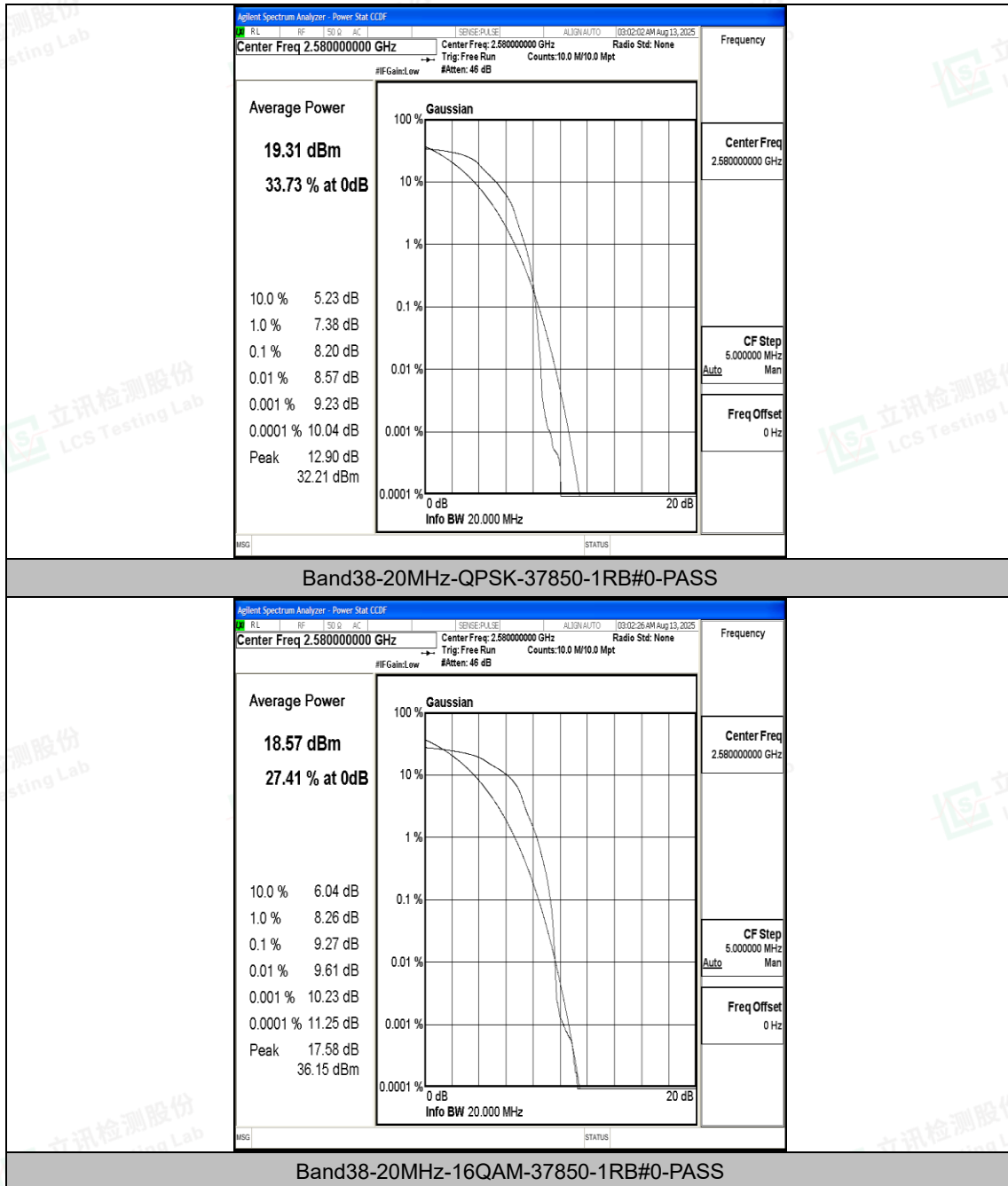


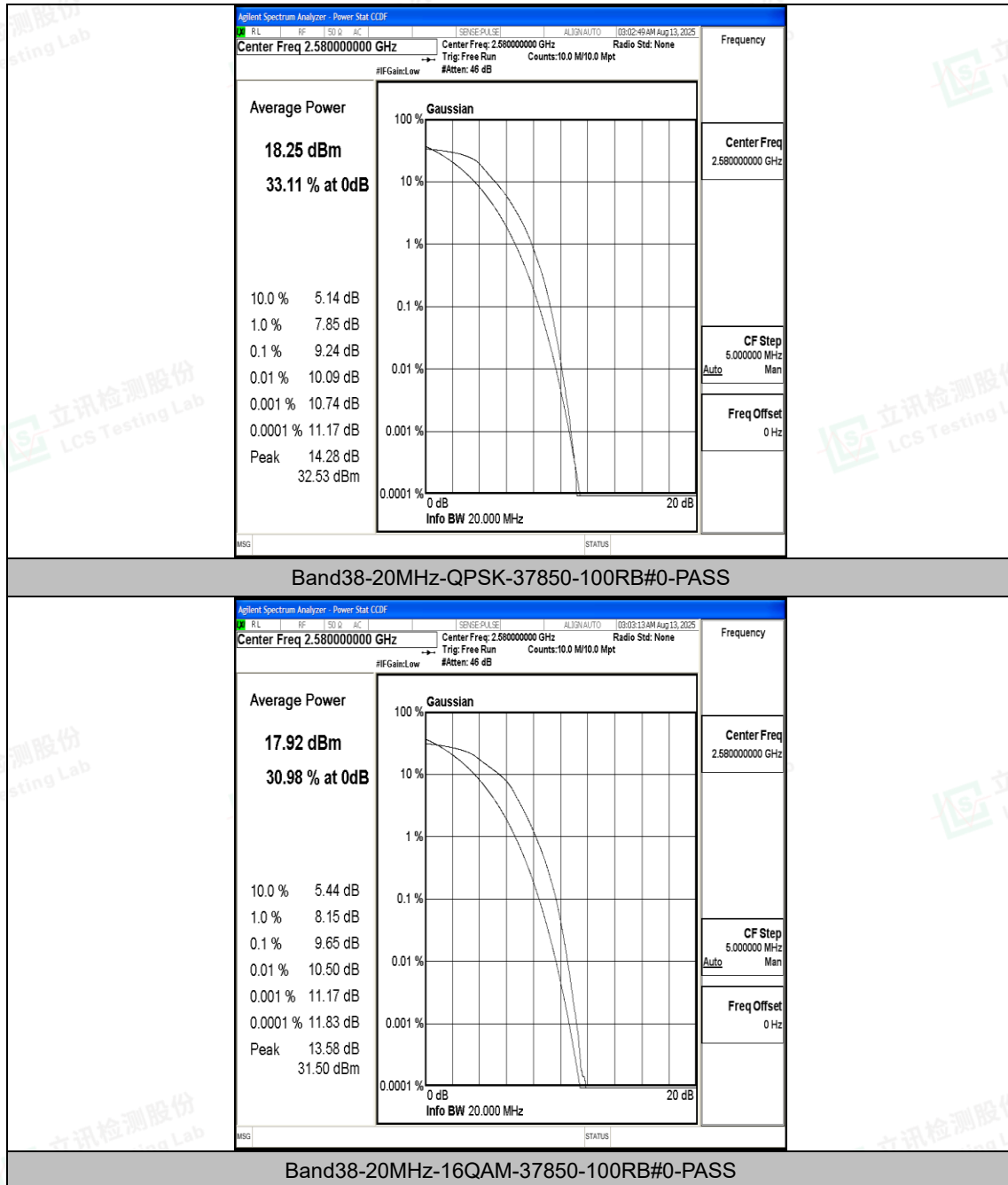


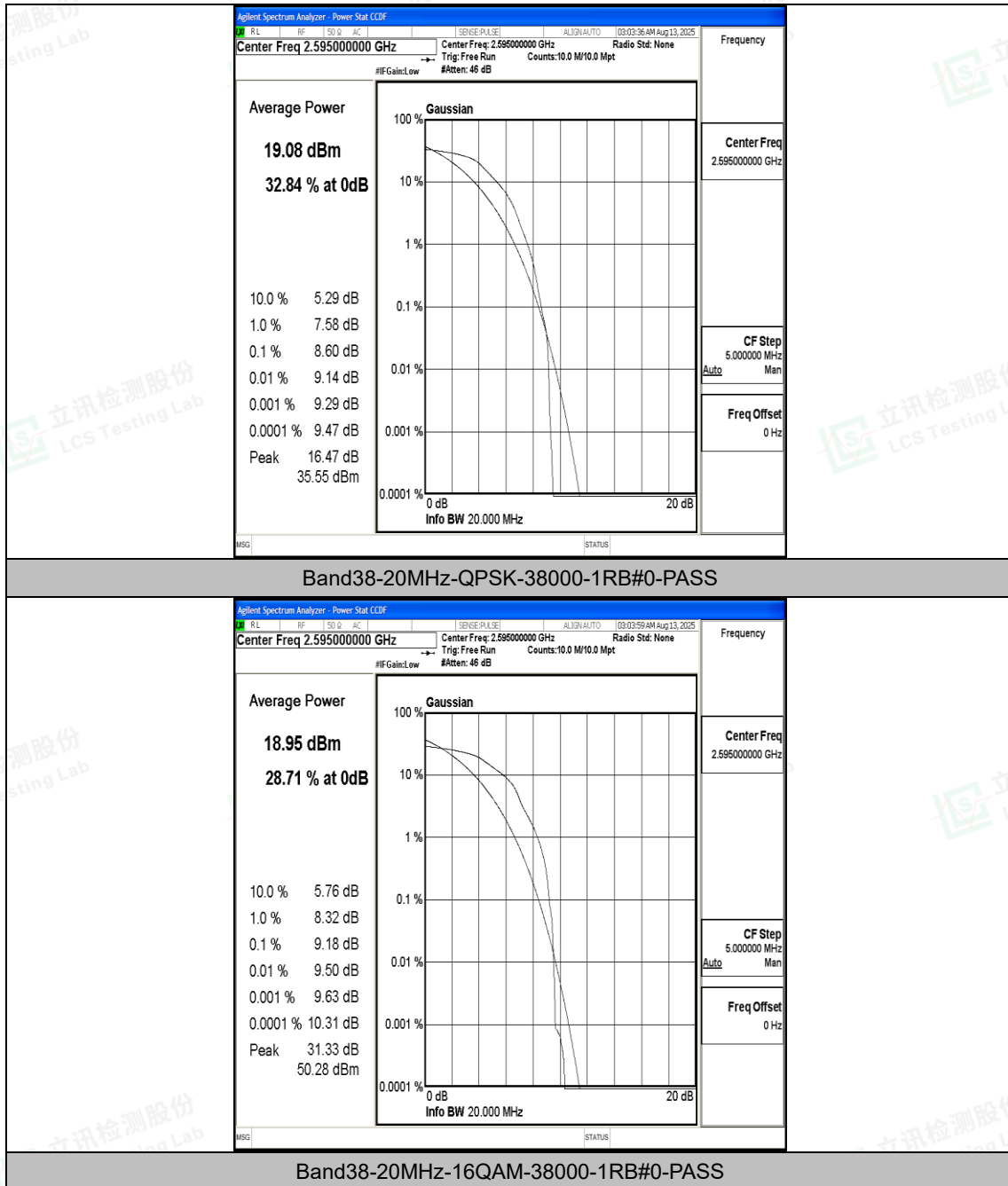


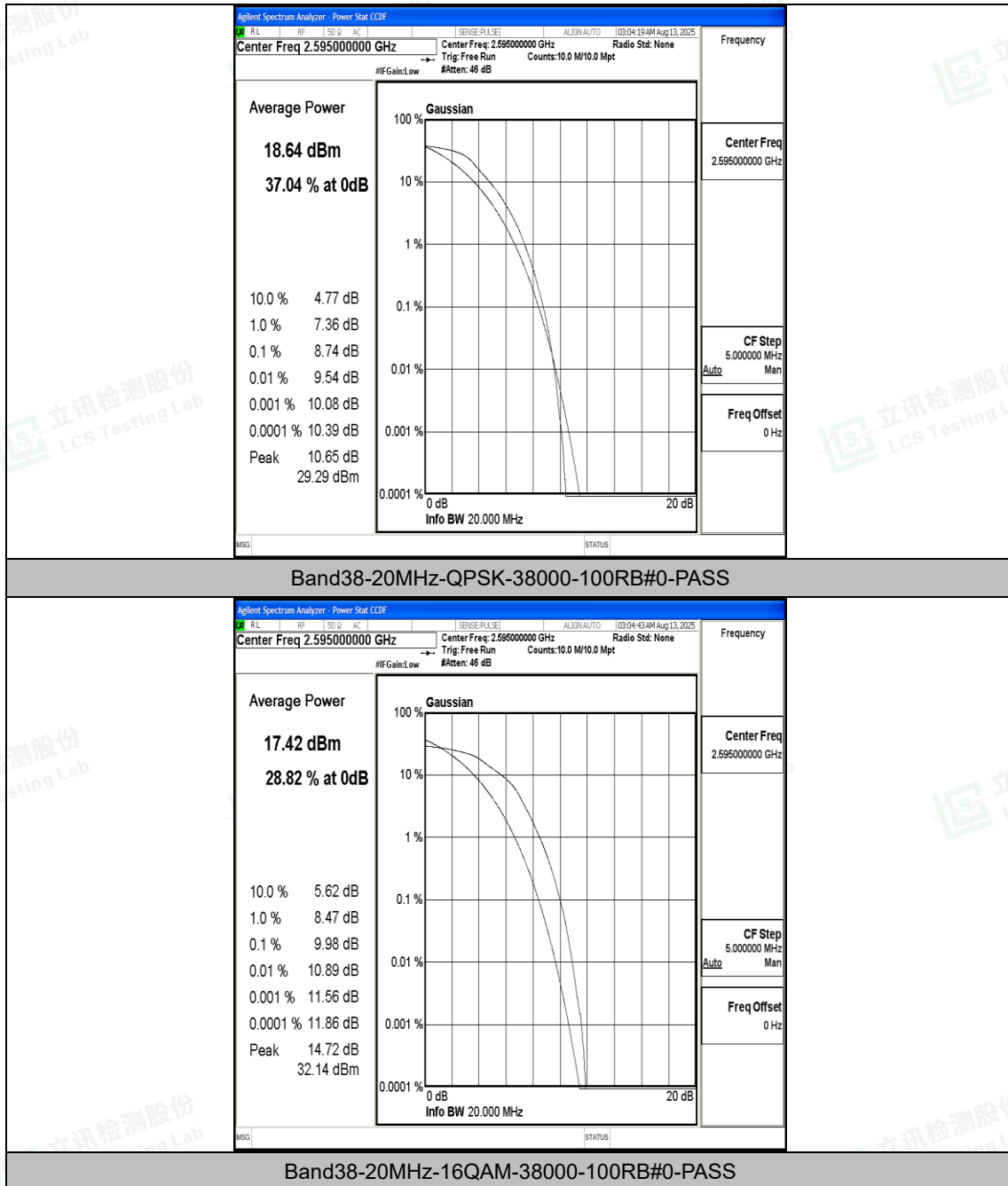


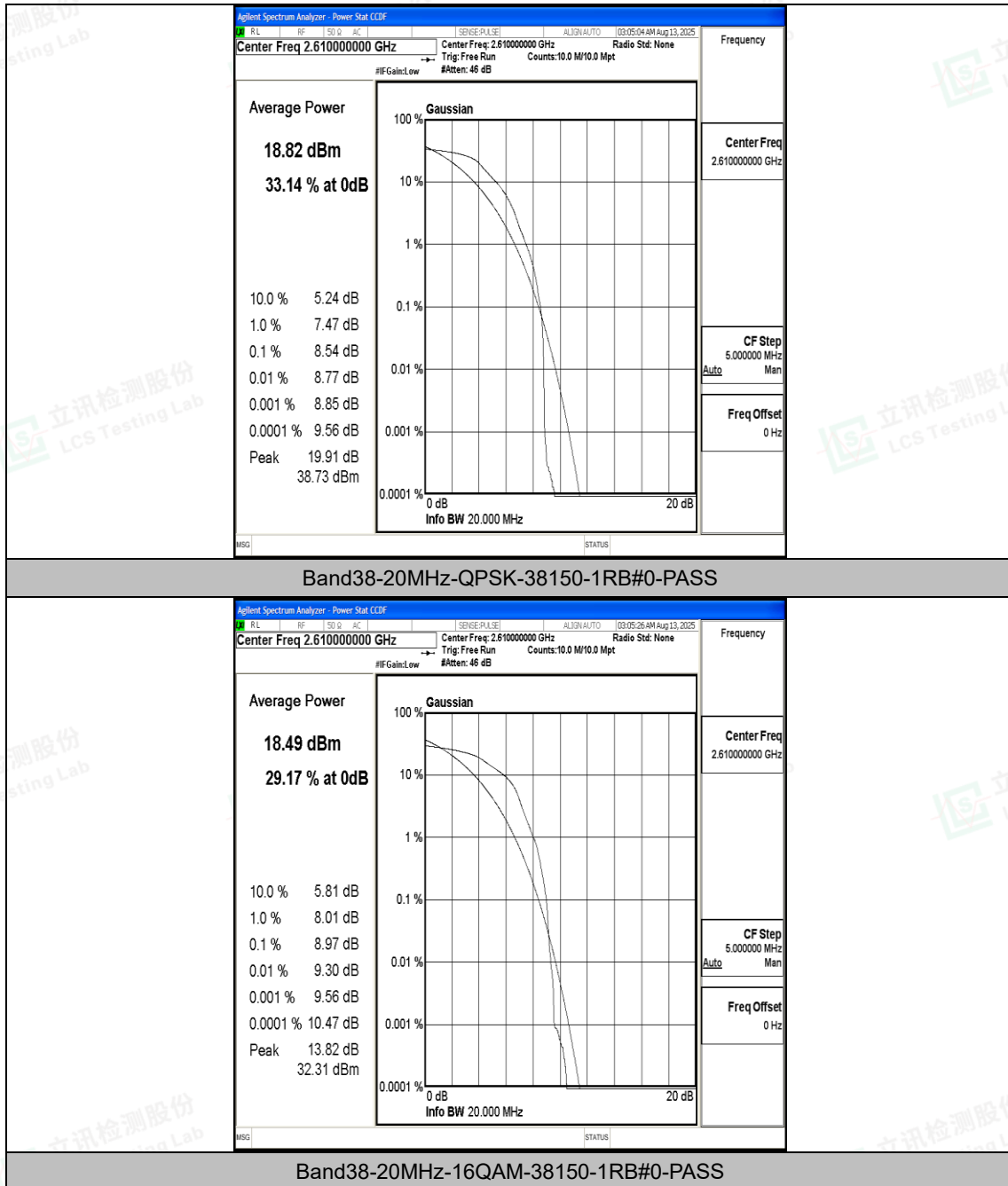


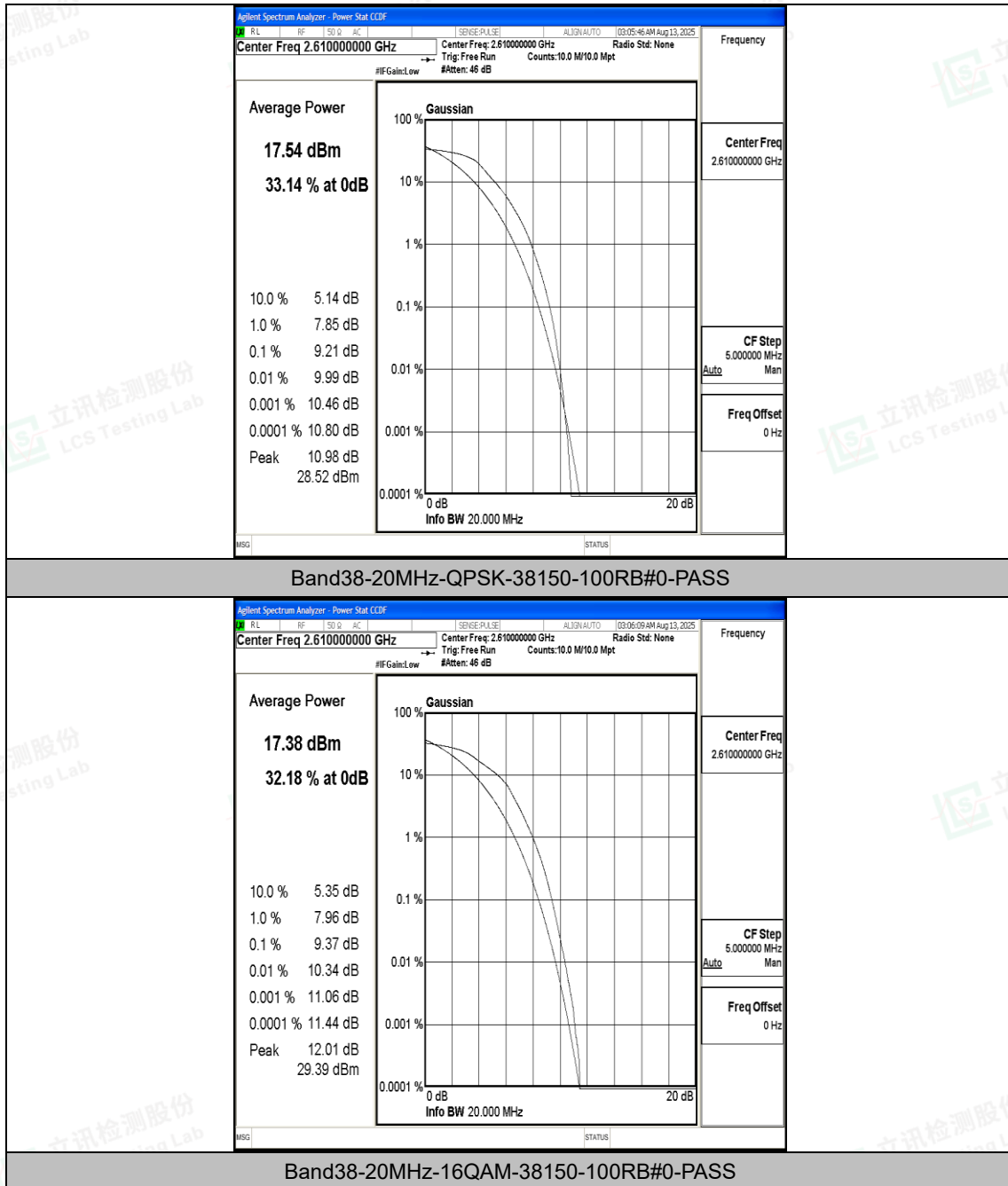














N.3 26dB Bandwidth and Occupied Bandwidth

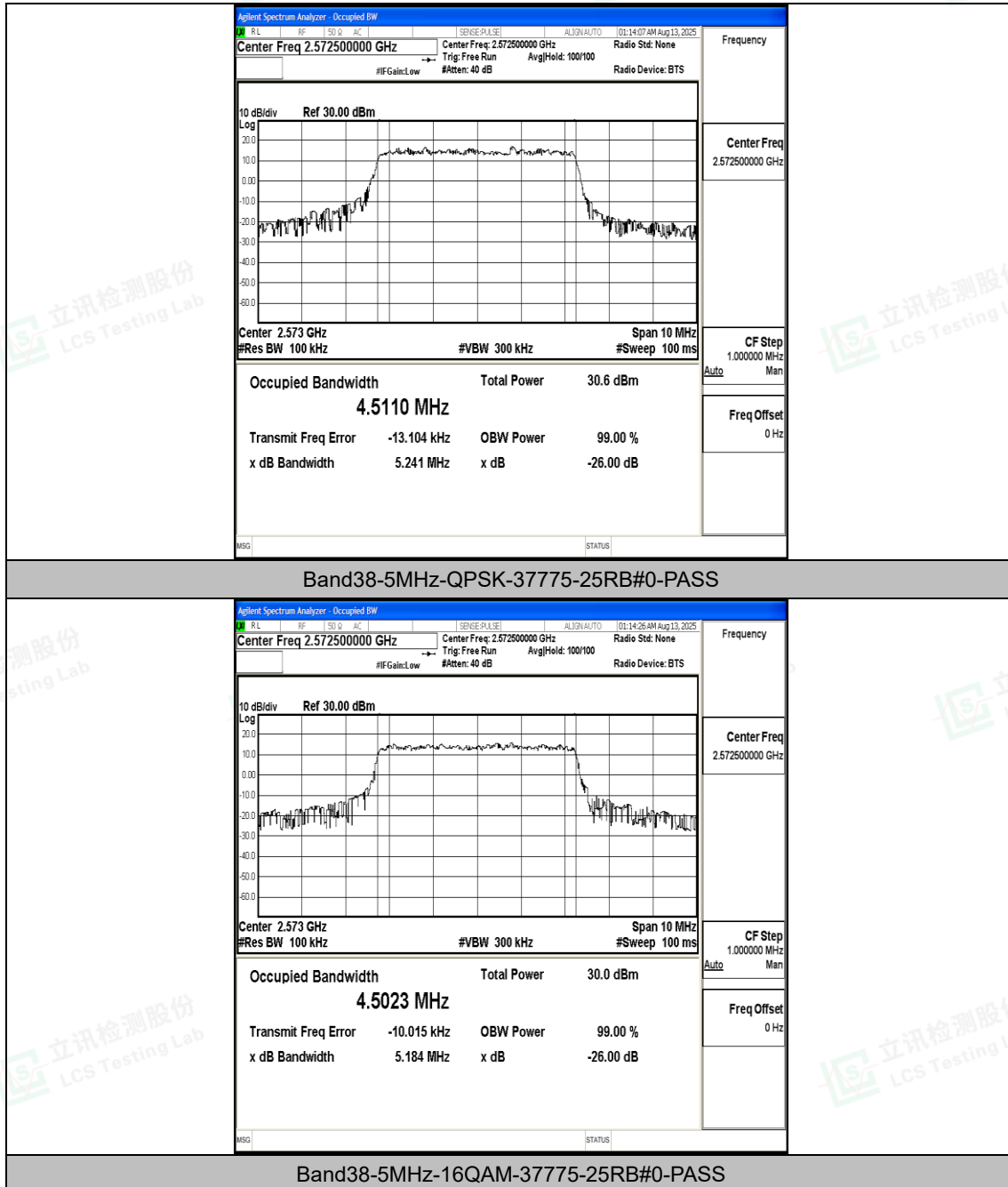
Test Result

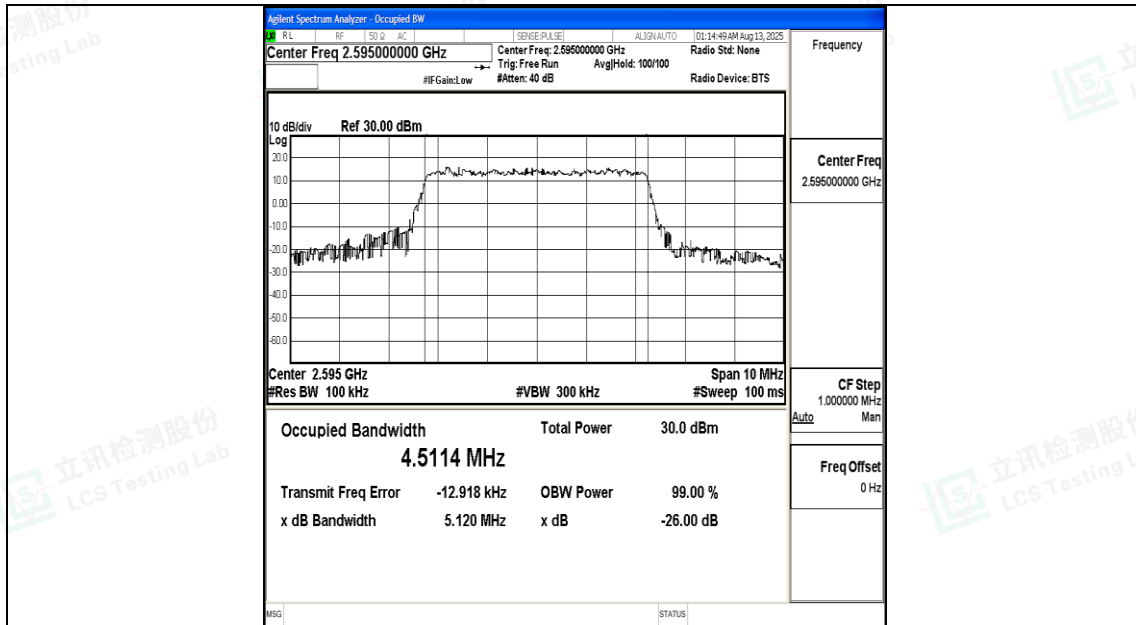
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5110	5.241	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5023	5.184	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5114	5.120	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5210	5.417	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4913	5.145	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5030	5.262	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9899	10.12	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9780	10.10	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9799	9.917	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9948	9.972	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0078	10.09	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0212	10.85	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.527	14.97	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.528	14.98	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.479	15.74	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.488	15.40	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.046	15.30	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.547	15.82	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.990	20.40	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.011	20.16	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.914	19.70	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.968	20.21	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.999	19.35	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.992	20.07	PASS



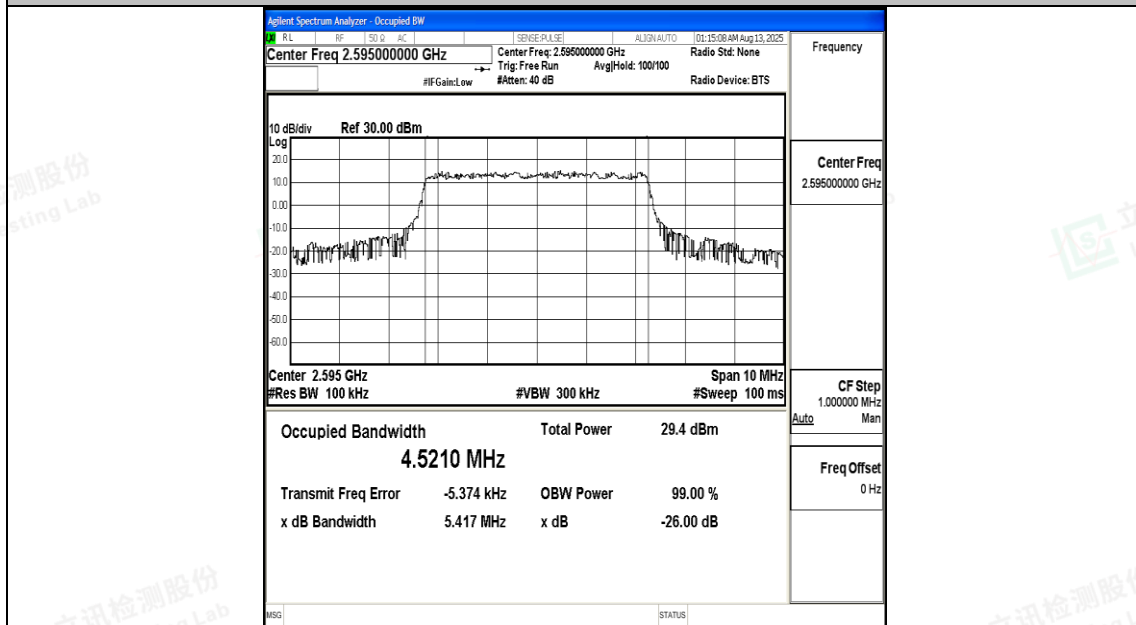


Test Graphs



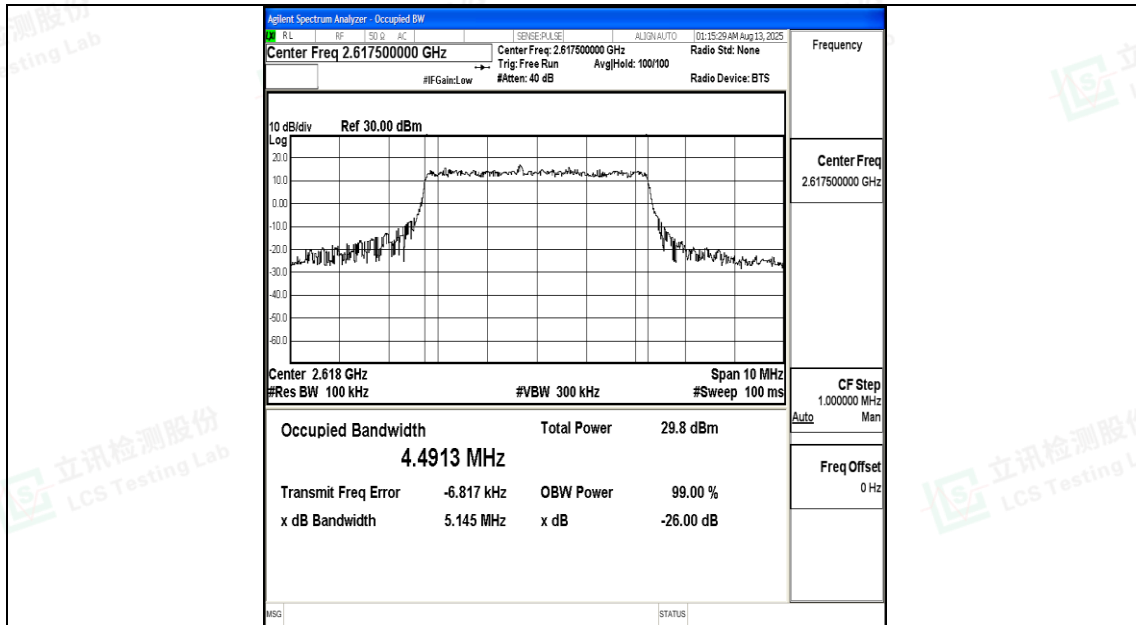


Band38-5MHz-QPSK-38000-25RB#0-PASS

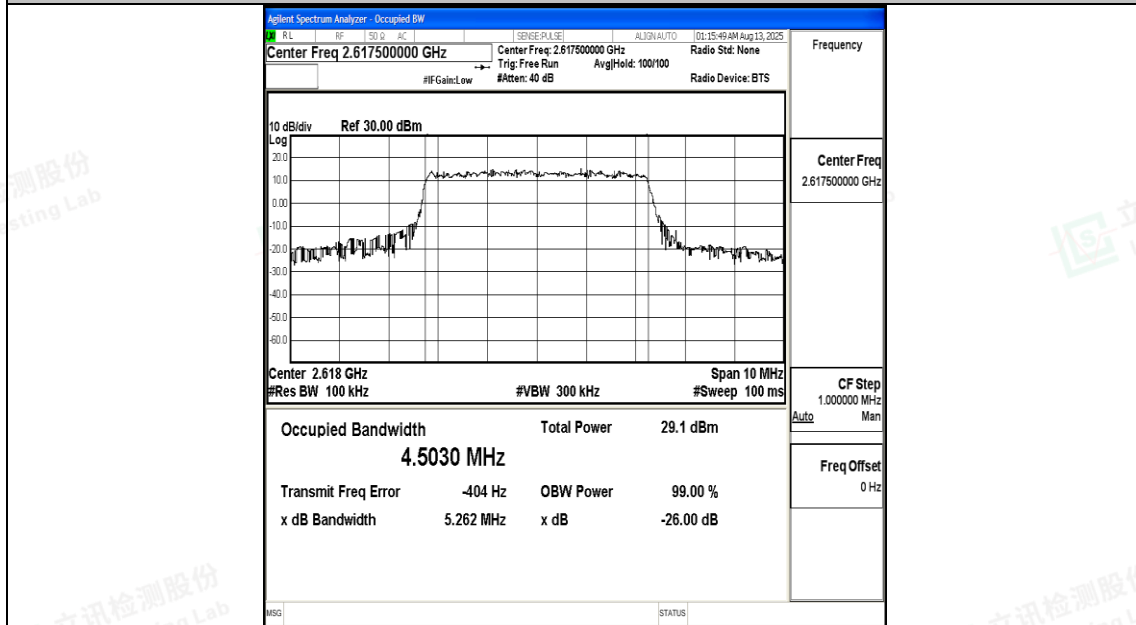


Band38-5MHz-16QAM-38000-25RB#0-PASS



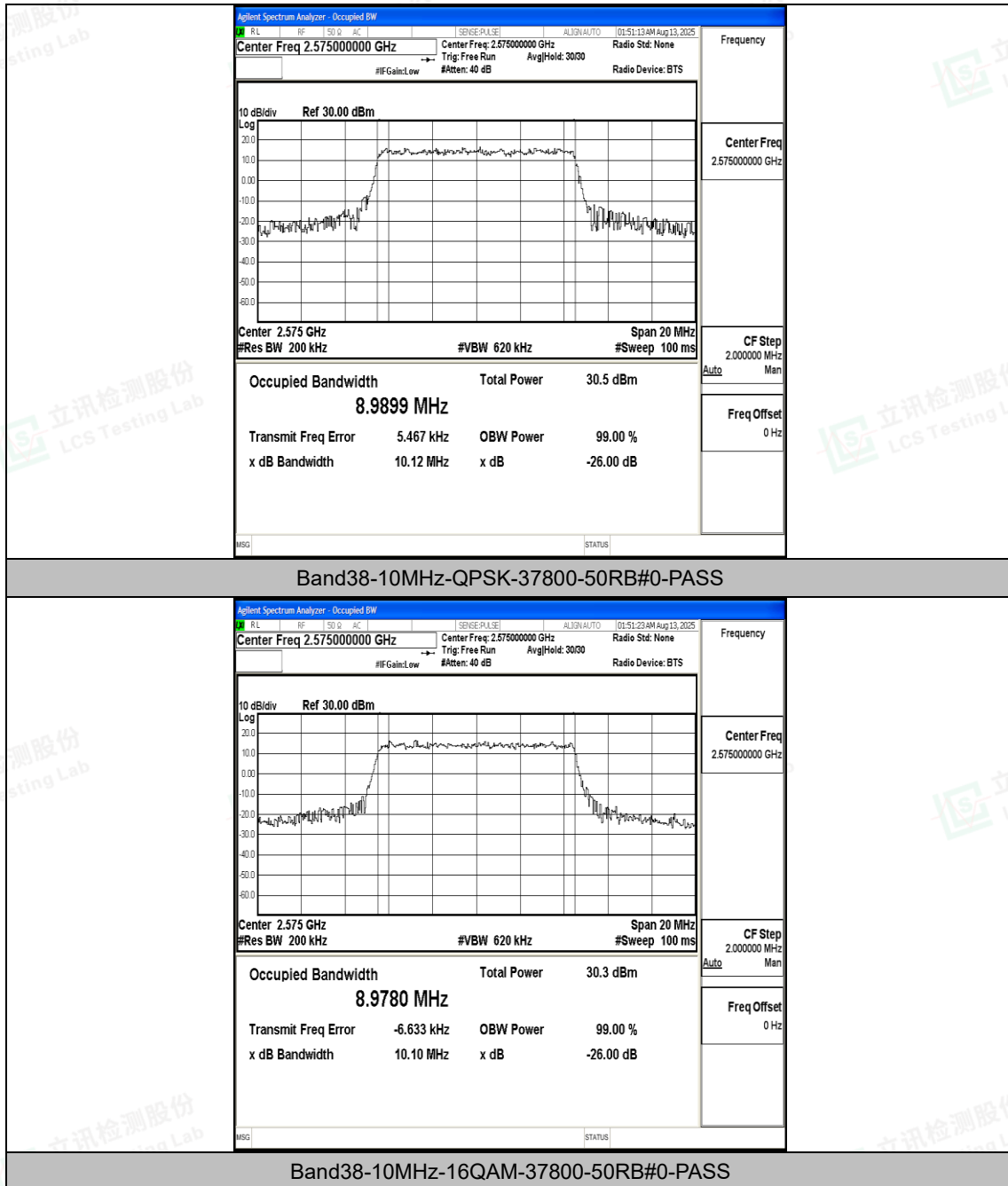


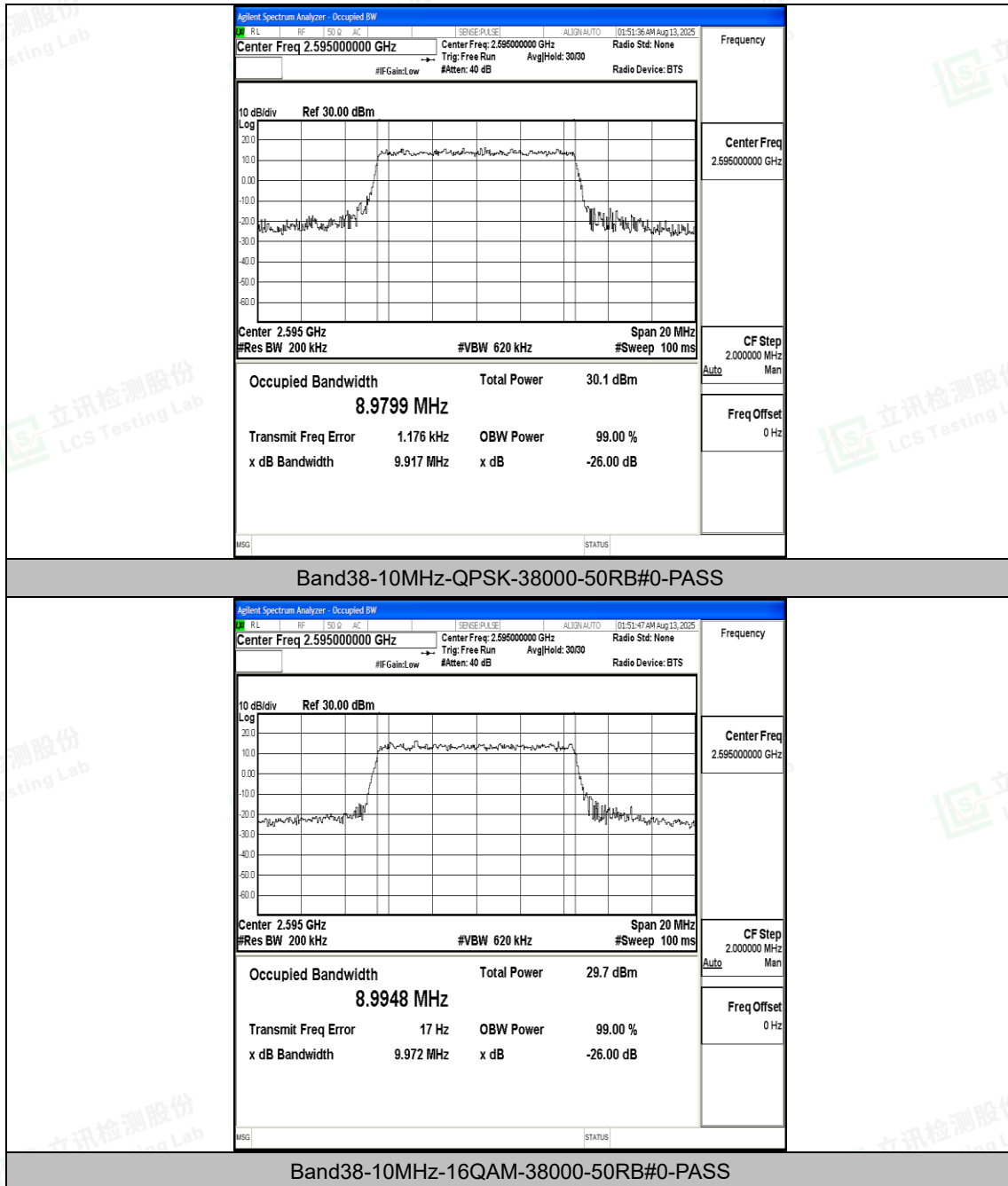
Band38-5MHz-QPSK-38225-25RB#0-PASS

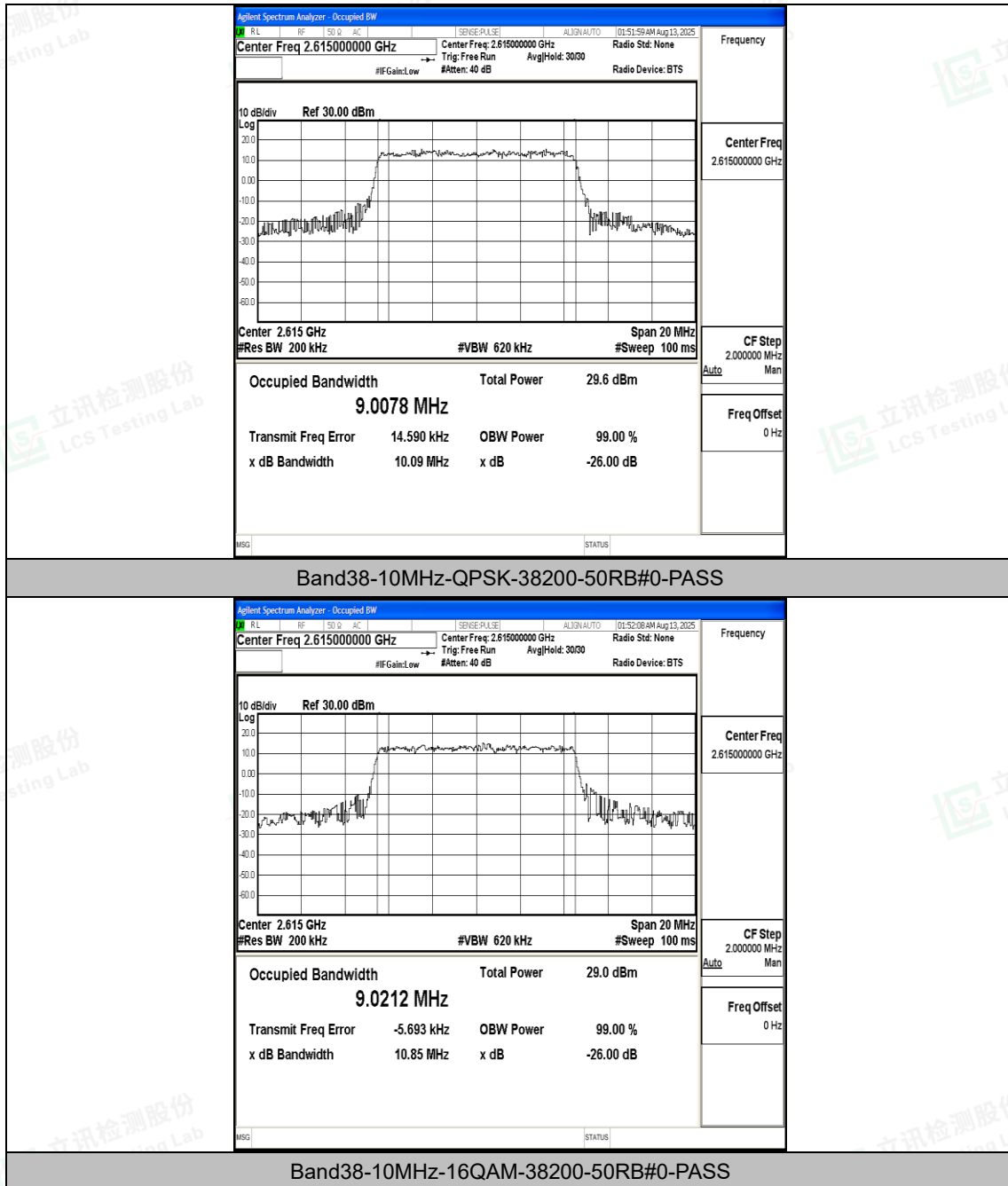


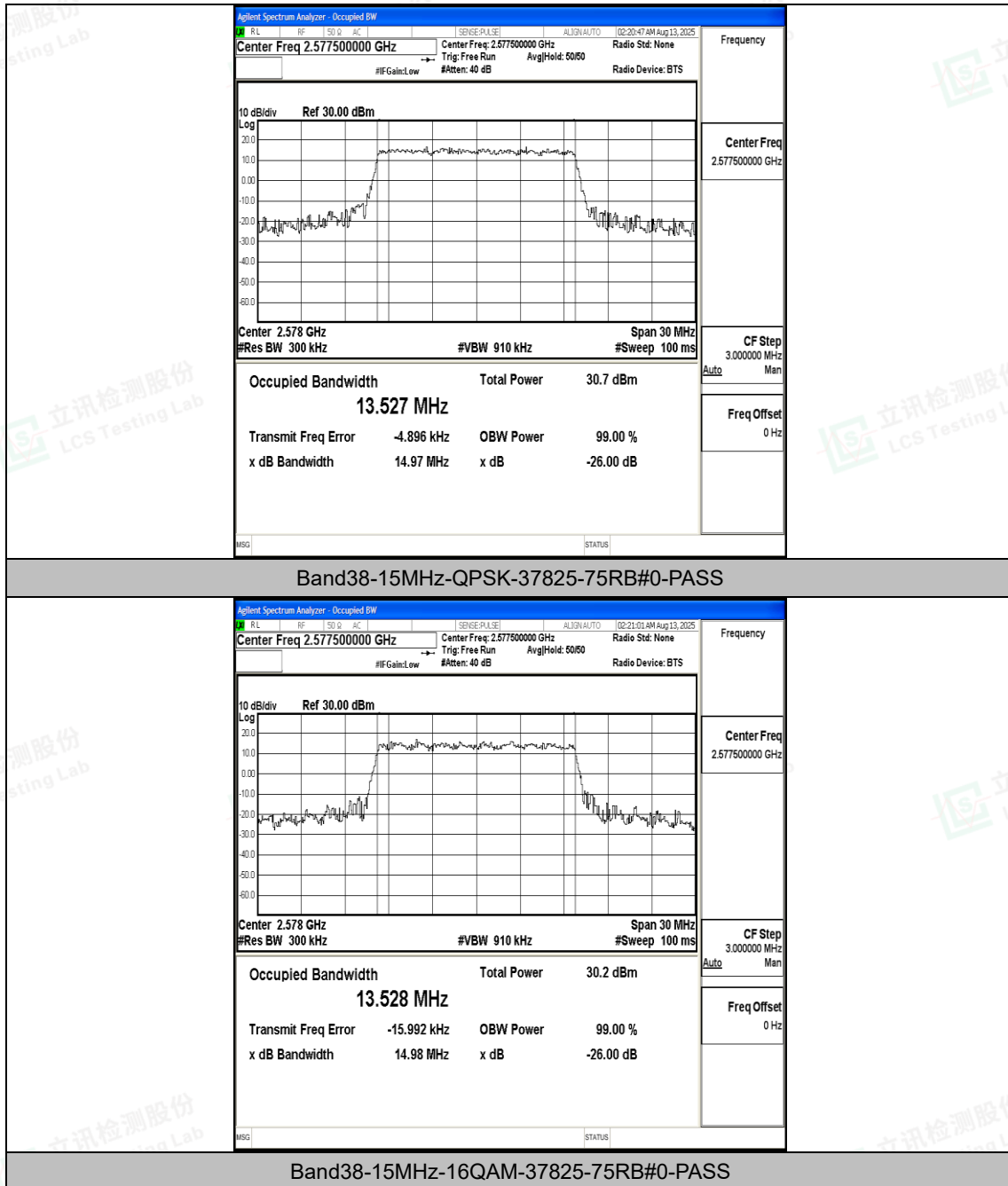
Band38-5MHz-16QAM-38225-25RB#0-PASS

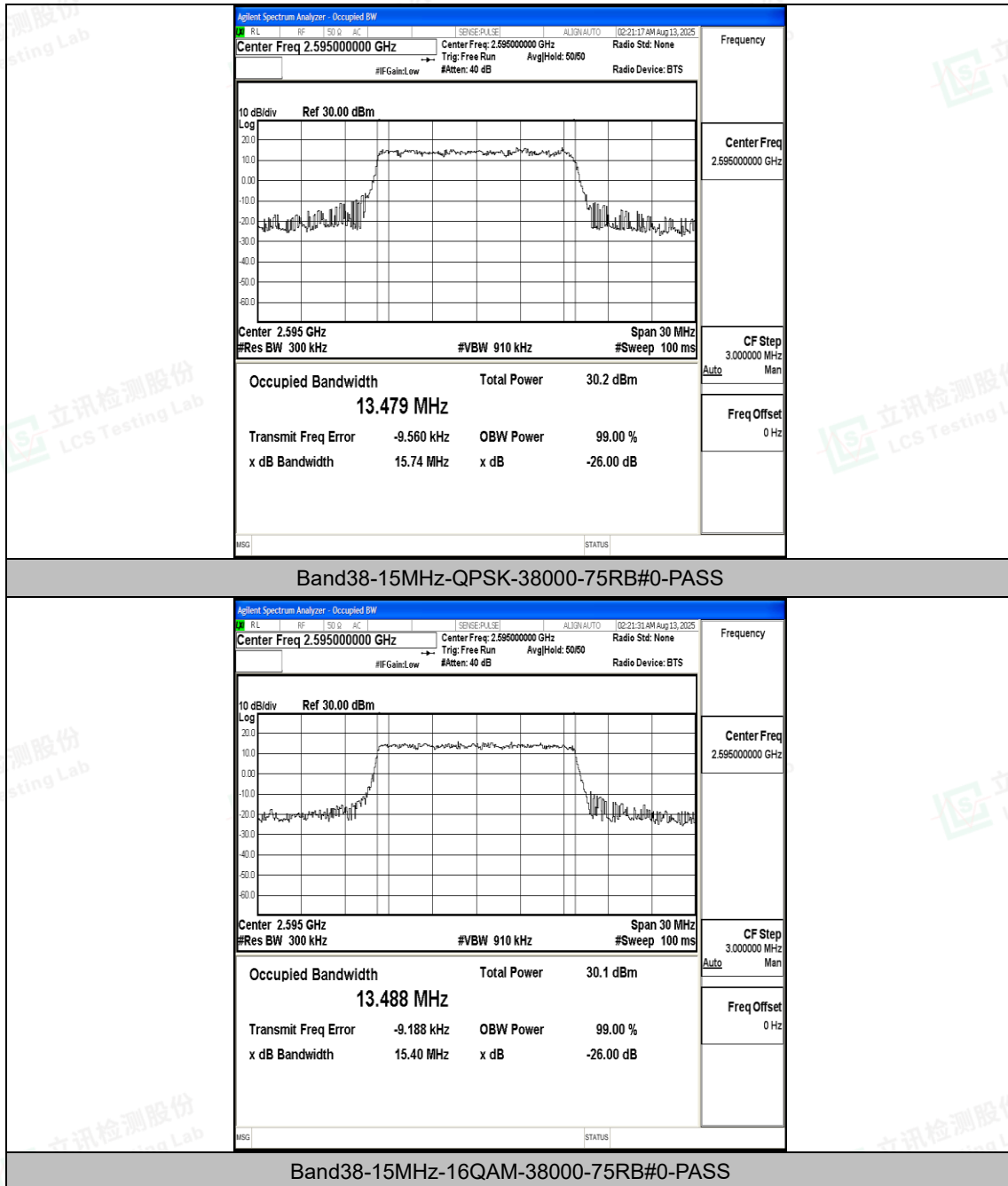


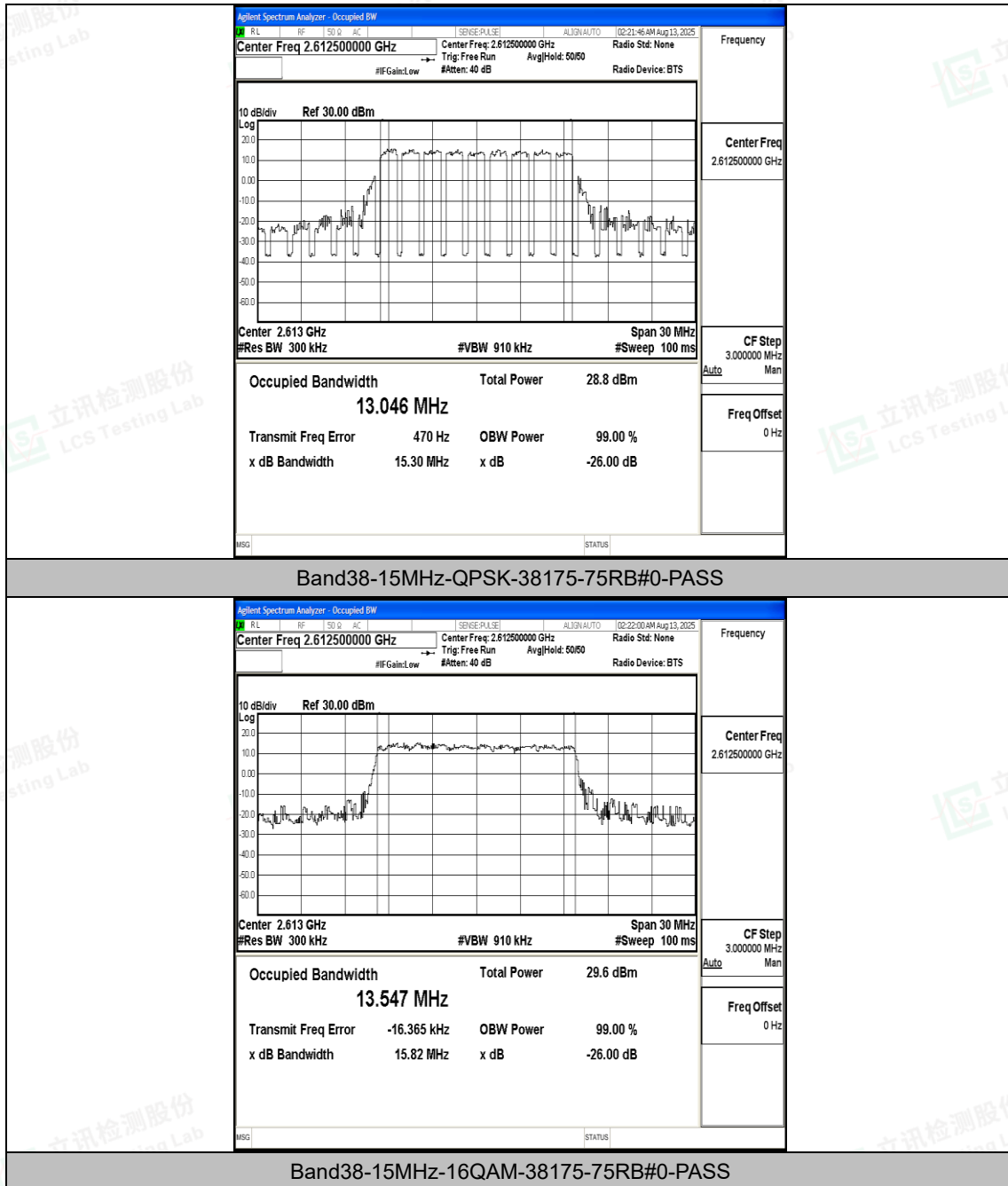


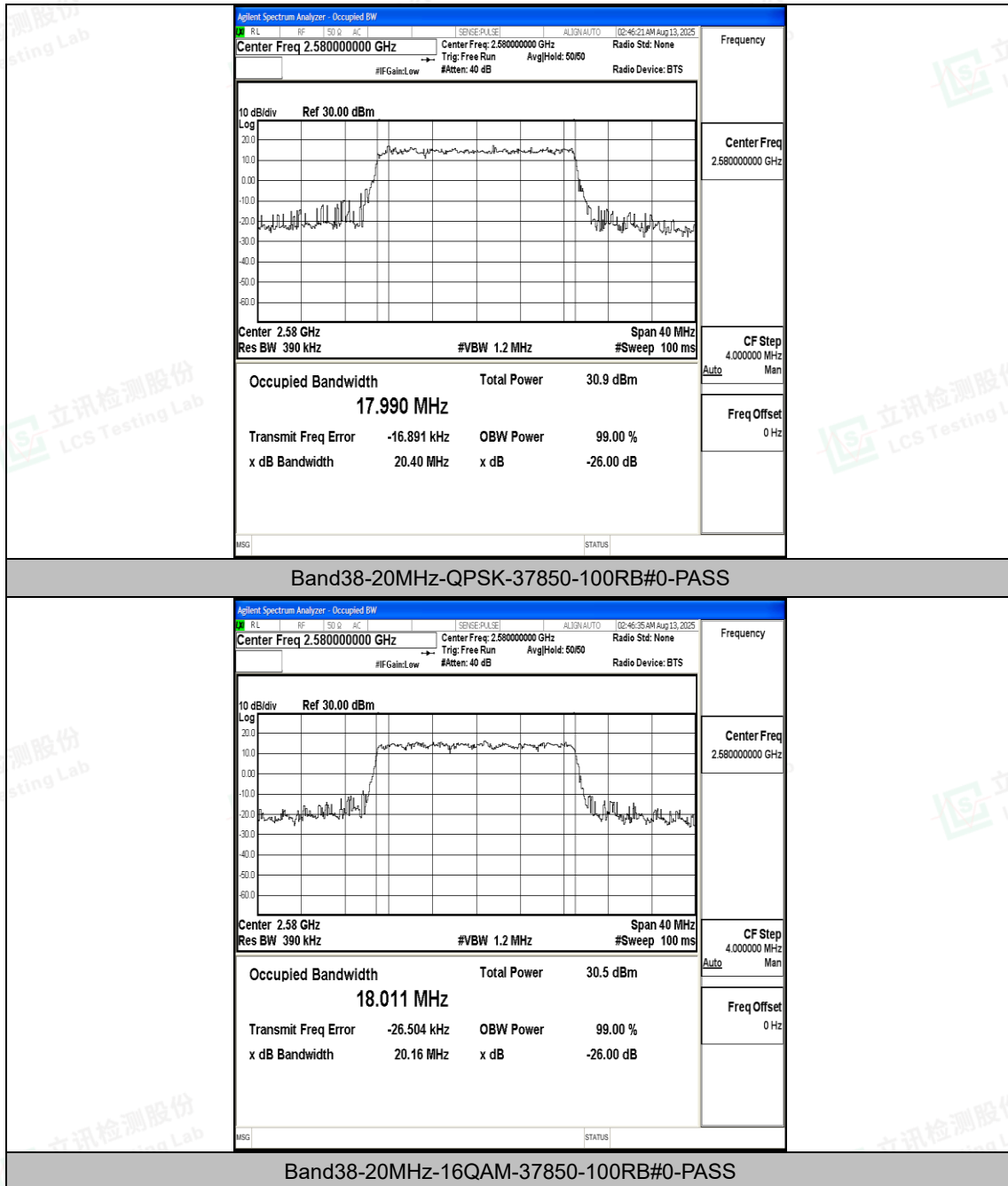


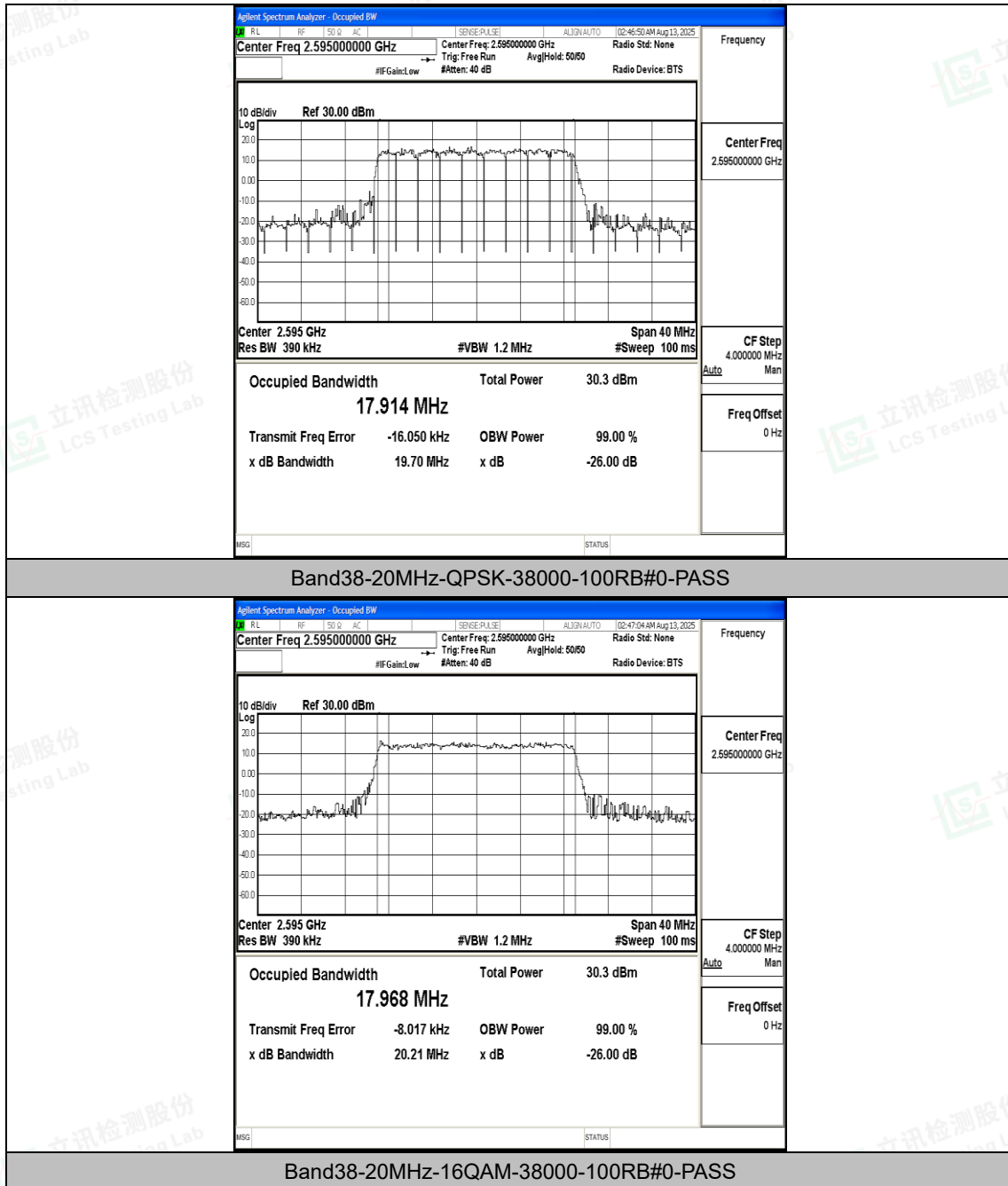


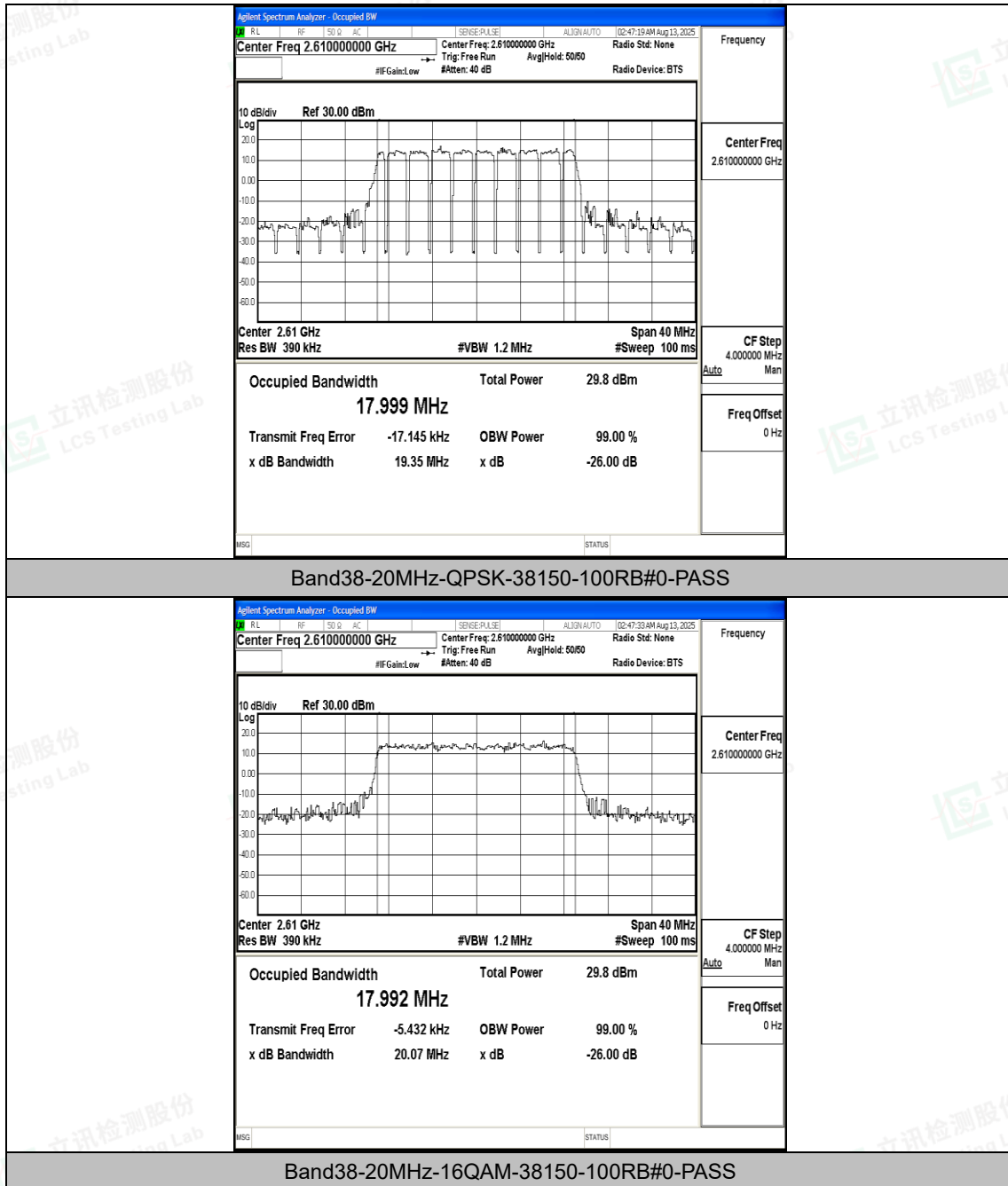














N.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	2563.45	-27.27	PASS_Final1
Band38	5MHz	QPSK	37775	25RB#0	2569.95	-25.31	PASS_Final2
Band38	5MHz	16QAM	37775	25RB#0	2563.50	-27.59	PASS_Final1
Band38	5MHz	QPSK	38225	25RB#0	2626.54	-27.26	PASS_Final1
Band38	5MHz	QPSK	37775	25RB#0	2563.48	-39.61	PASS
Band38	5MHz	16QAM	37775	25RB#0	2560.00	-39.87	PASS
Band38	5MHz	QPSK	38225	25RB#0	2626.22	-39.33	PASS
Band38	5MHz	16QAM	38225	25RB#0	2626.50	-27.85	PASS_Final1
Band38	10MHz	QPSK	37800	50RB#0	2559.50	-27.67	PASS_Final1
Band38	10MHz	16QAM	37800	50RB#0	2558.40	-27.58	PASS_Final1
Band38	10MHz	QPSK	38200	50RB#0	2630.50	-27.29	PASS_Final1
Band38	5MHz	16QAM	38225	25RB#0	2626.16	-40.08	PASS
Band38	10MHz	QPSK	37800	50RB#0	2558.88	-35.81	PASS
Band38	10MHz	16QAM	37800	50RB#0	2557.50	-36.23	PASS
Band38	10MHz	QPSK	38200	50RB#0	2632.05	-35.52	PASS
Band38	10MHz	16QAM	38200	50RB#0	2630.50	-26.64	PASS_Final1
Band38	10MHz	16QAM	38200	50RB#0	2630.38	-35.14	PASS
Band38	15MHz	QPSK	37825	75RB#0	2553.12	-34.21	PASS
Band38	15MHz	16QAM	37825	75RB#0	2553.96	-32.97	PASS
Band38	15MHz	QPSK	38175	75RB#0	2636.71	-33.84	PASS
Band38	15MHz	16QAM	38175	75RB#0	2636.05	-34.07	PASS
Band38	20MHz	QPSK	37850	100RB#0	2548.51	-33.41	PASS
Band38	20MHz	16QAM	37850	100RB#0	2549.95	-32.44	PASS
Band38	20MHz	QPSK	38150	100RB#0	2641.27	-32.30	PASS
Band38	20MHz	16QAM	38150	100RB#0	2640.28	-33.13	PASS





Test Graphs

