



Appendix M: Test Data for E-UTRA Band 41

Product Name: Global Powerbank WiFi

Test Model: P1

Environmental Conditions

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



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M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	26.10	PASS
Band41	5MHz	16QAM	39675	1RB#0	25.60	PASS
Band41	5MHz	QPSK	39675	1RB#12	26.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	25.63	PASS
Band41	5MHz	QPSK	39675	1RB#24	26.08	PASS
Band41	5MHz	16QAM	39675	1RB#24	25.50	PASS
Band41	5MHz	QPSK	39675	12RB#0	25.16	PASS
Band41	5MHz	16QAM	39675	12RB#0	23.99	PASS
Band41	5MHz	QPSK	39675	12RB#6	25.16	PASS
Band41	5MHz	16QAM	39675	12RB#6	24.07	PASS
Band41	5MHz	QPSK	39675	12RB#13	25.13	PASS
Band41	5MHz	16QAM	39675	12RB#13	24.06	PASS
Band41	5MHz	QPSK	39675	25RB#0	25.21	PASS
Band41	5MHz	16QAM	39675	25RB#0	24.15	PASS
Band41	5MHz	QPSK	40620	1RB#0	25.85	PASS
Band41	5MHz	16QAM	40620	1RB#0	25.42	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.82	PASS
Band41	5MHz	16QAM	40620	1RB#12	25.30	PASS
Band41	5MHz	QPSK	40620	1RB#24	25.87	PASS
Band41	5MHz	16QAM	40620	1RB#24	25.16	PASS
Band41	5MHz	QPSK	40620	12RB#0	24.93	PASS
Band41	5MHz	16QAM	40620	12RB#0	24.13	PASS
Band41	5MHz	QPSK	40620	12RB#6	24.95	PASS
Band41	5MHz	16QAM	40620	12RB#6	24.11	PASS
Band41	5MHz	QPSK	40620	12RB#13	24.96	PASS
Band41	5MHz	16QAM	40620	12RB#13	24.09	PASS
Band41	5MHz	QPSK	40620	25RB#0	24.97	PASS
Band41	5MHz	16QAM	40620	25RB#0	24.18	PASS
Band41	5MHz	QPSK	41565	1RB#0	25.84	PASS
Band41	5MHz	16QAM	41565	1RB#0	25.10	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.77	PASS
Band41	5MHz	16QAM	41565	1RB#12	25.13	PASS
Band41	5MHz	QPSK	41565	1RB#24	25.80	PASS
Band41	5MHz	16QAM	41565	1RB#24	25.04	PASS



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Band41	5MHz	QPSK	41565	12RB#0	24.86	PASS
Band41	5MHz	16QAM	41565	12RB#0	23.95	PASS
Band41	5MHz	QPSK	41565	12RB#6	24.82	PASS
Band41	5MHz	16QAM	41565	12RB#6	24.02	PASS
Band41	5MHz	QPSK	41565	12RB#13	24.78	PASS
Band41	5MHz	16QAM	41565	12RB#13	23.93	PASS
Band41	5MHz	QPSK	41565	25RB#0	24.75	PASS
Band41	5MHz	16QAM	41565	25RB#0	24.05	PASS
Band41	10MHz	QPSK	39700	1RB#0	26.13	PASS
Band41	10MHz	16QAM	39700	1RB#0	25.56	PASS
Band41	10MHz	QPSK	39700	1RB#24	26.16	PASS
Band41	10MHz	16QAM	39700	1RB#24	25.46	PASS
Band41	10MHz	QPSK	39700	1RB#49	26.09	PASS
Band41	10MHz	16QAM	39700	1RB#49	25.48	PASS
Band41	10MHz	QPSK	39700	25RB#0	24.94	PASS
Band41	10MHz	16QAM	39700	25RB#0	24.03	PASS
Band41	10MHz	QPSK	39700	25RB#12	24.96	PASS
Band41	10MHz	16QAM	39700	25RB#12	24.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	24.99	PASS
Band41	10MHz	16QAM	39700	25RB#25	24.01	PASS
Band41	10MHz	QPSK	39700	50RB#0	25.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	24.01	PASS
Band41	10MHz	QPSK	40620	1RB#0	25.99	PASS
Band41	10MHz	16QAM	40620	1RB#0	25.43	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.86	PASS
Band41	10MHz	16QAM	40620	1RB#24	25.40	PASS
Band41	10MHz	QPSK	40620	1RB#49	25.87	PASS
Band41	10MHz	16QAM	40620	1RB#49	25.35	PASS
Band41	10MHz	QPSK	40620	25RB#0	24.77	PASS
Band41	10MHz	16QAM	40620	25RB#0	23.84	PASS
Band41	10MHz	QPSK	40620	25RB#12	24.78	PASS
Band41	10MHz	16QAM	40620	25RB#12	23.85	PASS
Band41	10MHz	QPSK	40620	25RB#25	24.76	PASS
Band41	10MHz	16QAM	40620	25RB#25	23.85	PASS
Band41	10MHz	QPSK	40620	50RB#0	24.78	PASS
Band41	10MHz	16QAM	40620	50RB#0	23.89	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.77	PASS
Band41	10MHz	16QAM	41540	1RB#0	25.22	PASS
Band41	10MHz	QPSK	41540	1RB#24	25.81	PASS
Band41	10MHz	16QAM	41540	1RB#24	25.22	PASS



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Band41	10MHz	QPSK	41540	1RB#49	25.78	PASS
Band41	10MHz	16QAM	41540	1RB#49	25.18	PASS
Band41	10MHz	QPSK	41540	25RB#0	24.70	PASS
Band41	10MHz	16QAM	41540	25RB#0	23.79	PASS
Band41	10MHz	QPSK	41540	25RB#12	24.72	PASS
Band41	10MHz	16QAM	41540	25RB#12	23.80	PASS
Band41	10MHz	QPSK	41540	25RB#25	24.68	PASS
Band41	10MHz	16QAM	41540	25RB#25	23.80	PASS
Band41	10MHz	QPSK	41540	50RB#0	24.61	PASS
Band41	10MHz	16QAM	41540	50RB#0	23.80	PASS
Band41	15MHz	QPSK	39725	1RB#0	26.07	PASS
Band41	15MHz	16QAM	39725	1RB#0	25.21	PASS
Band41	15MHz	QPSK	39725	1RB#38	26.12	PASS
Band41	15MHz	16QAM	39725	1RB#38	25.11	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.90	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.93	PASS
Band41	15MHz	QPSK	39725	38RB#0	25.07	PASS
Band41	15MHz	16QAM	39725	38RB#0	25.07	PASS
Band41	15MHz	QPSK	39725	38RB#18	25.07	PASS
Band41	15MHz	16QAM	39725	38RB#18	24.95	PASS
Band41	15MHz	QPSK	39725	38RB#37	24.95	PASS
Band41	15MHz	16QAM	39725	38RB#37	24.94	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.94	PASS
Band41	15MHz	16QAM	39725	75RB#0	24.07	PASS
Band41	15MHz	QPSK	40620	1RB#0	25.94	PASS
Band41	15MHz	16QAM	40620	1RB#0	25.45	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.90	PASS
Band41	15MHz	16QAM	40620	1RB#38	25.40	PASS
Band41	15MHz	QPSK	40620	1RB#74	25.87	PASS
Band41	15MHz	16QAM	40620	1RB#74	25.35	PASS
Band41	15MHz	QPSK	40620	38RB#0	24.83	PASS
Band41	15MHz	16QAM	40620	38RB#0	24.83	PASS
Band41	15MHz	QPSK	40620	38RB#18	24.82	PASS
Band41	15MHz	16QAM	40620	38RB#18	24.83	PASS
Band41	15MHz	QPSK	40620	38RB#37	24.83	PASS
Band41	15MHz	16QAM	40620	38RB#37	24.83	PASS
Band41	15MHz	QPSK	40620	75RB#0	24.83	PASS
Band41	15MHz	16QAM	40620	75RB#0	23.85	PASS
Band41	15MHz	QPSK	41515	1RB#0	25.77	PASS
Band41	15MHz	16QAM	41515	1RB#0	25.23	PASS



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Band41	15MHz	QPSK	41515	1RB#38	25.79	PASS
Band41	15MHz	16QAM	41515	1RB#38	25.28	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.80	PASS
Band41	15MHz	16QAM	41515	1RB#74	25.23	PASS
Band41	15MHz	QPSK	41515	38RB#0	24.72	PASS
Band41	15MHz	16QAM	41515	38RB#0	24.72	PASS
Band41	15MHz	QPSK	41515	38RB#18	24.72	PASS
Band41	15MHz	16QAM	41515	38RB#18	24.72	PASS
Band41	15MHz	QPSK	41515	38RB#37	24.72	PASS
Band41	15MHz	16QAM	41515	38RB#37	24.72	PASS
Band41	15MHz	QPSK	41515	75RB#0	24.72	PASS
Band41	15MHz	16QAM	41515	75RB#0	23.87	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.90	PASS
Band41	20MHz	16QAM	39750	1RB#0	25.60	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.85	PASS
Band41	20MHz	16QAM	39750	1RB#49	25.47	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.70	PASS
Band41	20MHz	16QAM	39750	1RB#99	25.31	PASS
Band41	20MHz	QPSK	39750	50RB#0	24.91	PASS
Band41	20MHz	16QAM	39750	50RB#0	24.15	PASS
Band41	20MHz	QPSK	39750	50RB#25	24.94	PASS
Band41	20MHz	16QAM	39750	50RB#25	24.24	PASS
Band41	20MHz	QPSK	39750	50RB#50	24.83	PASS
Band41	20MHz	16QAM	39750	50RB#50	24.16	PASS
Band41	20MHz	QPSK	39750	100RB#0	24.97	PASS
Band41	20MHz	16QAM	39750	100RB#0	24.05	PASS
Band41	20MHz	QPSK	40620	1RB#0	25.80	PASS
Band41	20MHz	16QAM	40620	1RB#0	25.46	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.65	PASS
Band41	20MHz	16QAM	40620	1RB#49	25.41	PASS
Band41	20MHz	QPSK	40620	1RB#99	25.45	PASS
Band41	20MHz	16QAM	40620	1RB#99	25.29	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.74	PASS
Band41	20MHz	16QAM	40620	50RB#0	24.02	PASS
Band41	20MHz	QPSK	40620	50RB#25	24.76	PASS
Band41	20MHz	16QAM	40620	50RB#25	24.02	PASS
Band41	20MHz	QPSK	40620	50RB#50	24.78	PASS
Band41	20MHz	16QAM	40620	50RB#50	24.01	PASS
Band41	20MHz	QPSK	40620	100RB#0	24.74	PASS
Band41	20MHz	16QAM	40620	100RB#0	23.89	PASS



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Band41	20MHz	QPSK	41490	1RB#0	25.53	PASS
Band41	20MHz	16QAM	41490	1RB#0	25.20	PASS
Band41	20MHz	QPSK	41490	1RB#49	25.62	PASS
Band41	20MHz	16QAM	41490	1RB#49	25.30	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.59	PASS
Band41	20MHz	16QAM	41490	1RB#99	25.47	PASS
Band41	20MHz	QPSK	41490	50RB#0	24.80	PASS
Band41	20MHz	16QAM	41490	50RB#0	24.17	PASS
Band41	20MHz	QPSK	41490	50RB#25	24.83	PASS
Band41	20MHz	16QAM	41490	50RB#25	24.17	PASS
Band41	20MHz	QPSK	41490	50RB#50	24.81	PASS
Band41	20MHz	16QAM	41490	50RB#50	24.11	PASS
Band41	20MHz	QPSK	41490	100RB#0	24.80	PASS
Band41	20MHz	16QAM	41490	100RB#0	24.08	PASS





M.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	7.53	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.42	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.89	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.49	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.51	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	9.11	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.28	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.88	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	7.71	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.53	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.12	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.70	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	7.27	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.36	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.07	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.80	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.28	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	9.27	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	9.35	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.95	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	7.90	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.38	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.02	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.70	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	7.56	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	7.83	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.35	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	10.34	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.01	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	8.77	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	7.40	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	7.82	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.02	13	PASS



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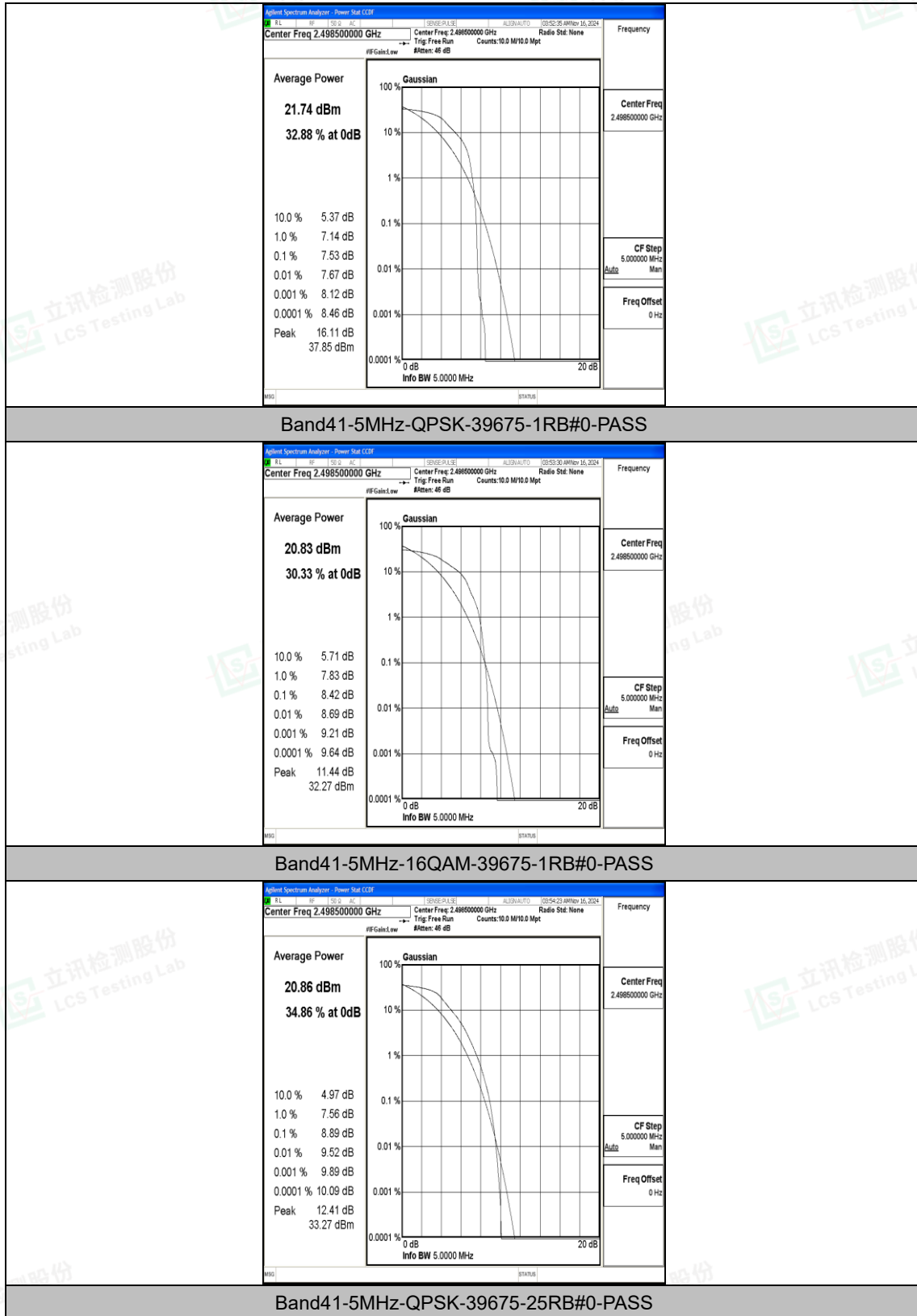


Band41	20MHz	16QAM	39750	100RB#0	9.91	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.46	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.53	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	10.16	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	7.42	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	8.19	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	9.05	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.54	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.90	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.25	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.73	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	7.91	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.56	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.98	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.71	13	PASS





Test Graphs

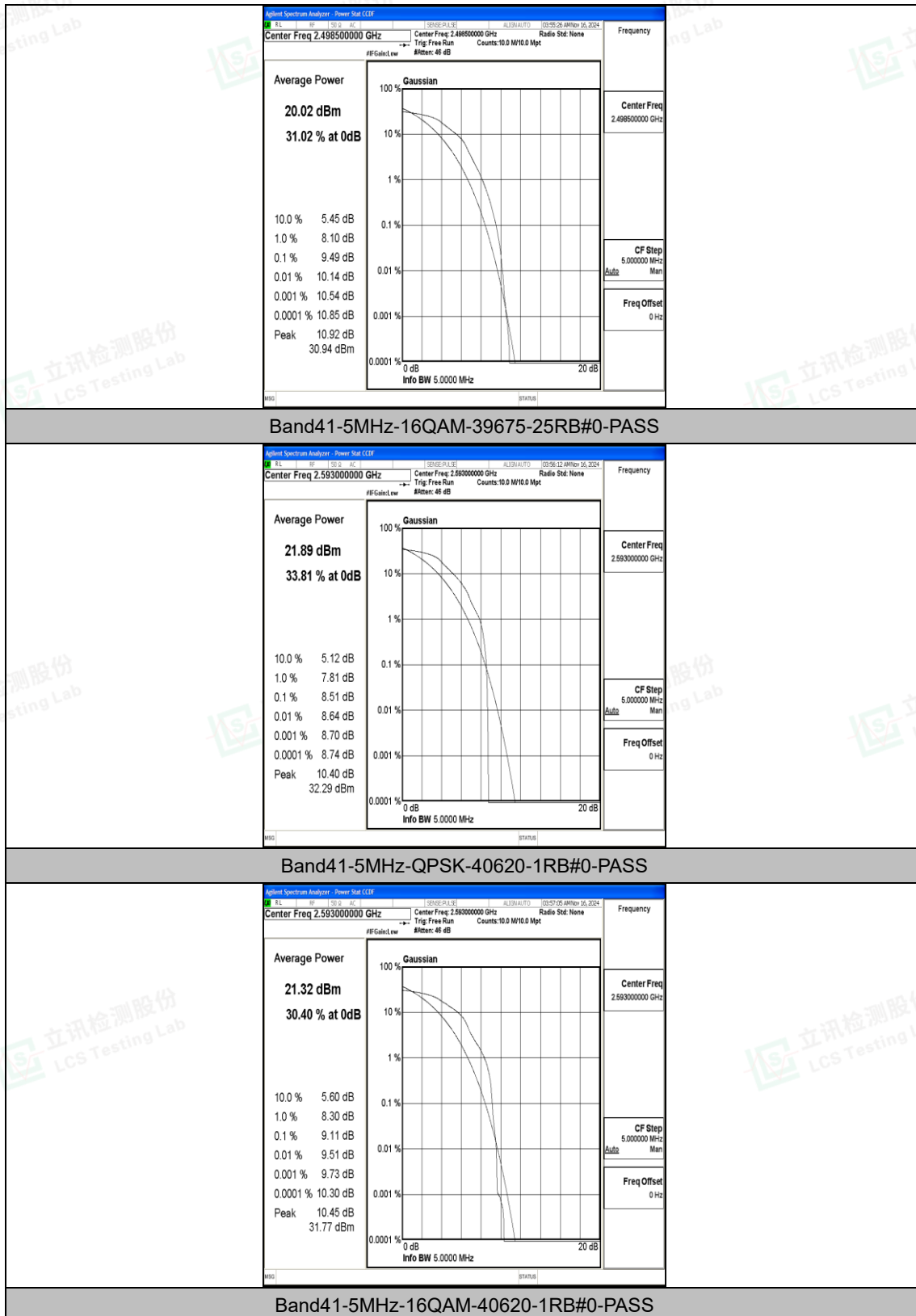


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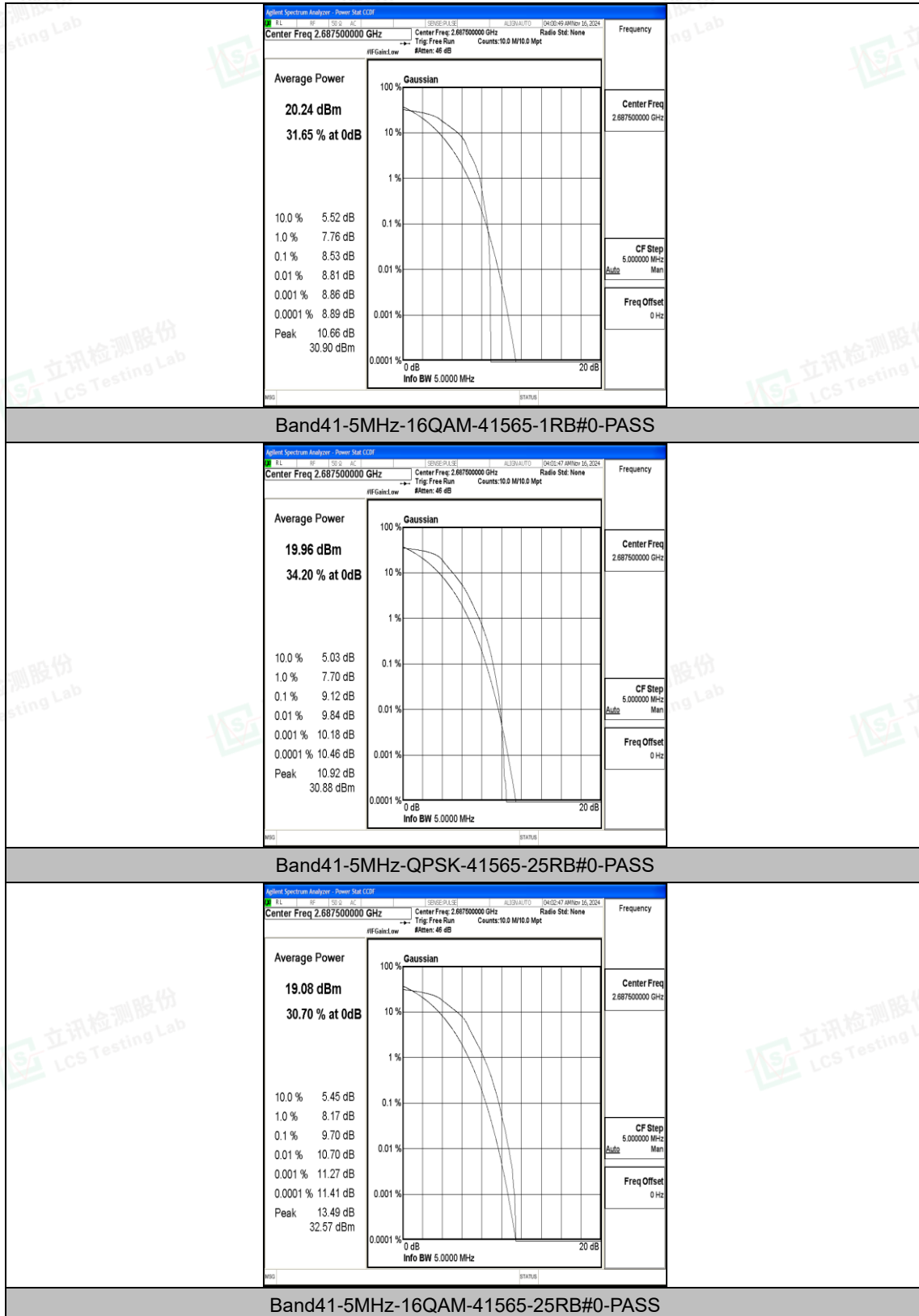
Shenzhen LCS Compliance Testing Laboratory Ltd.

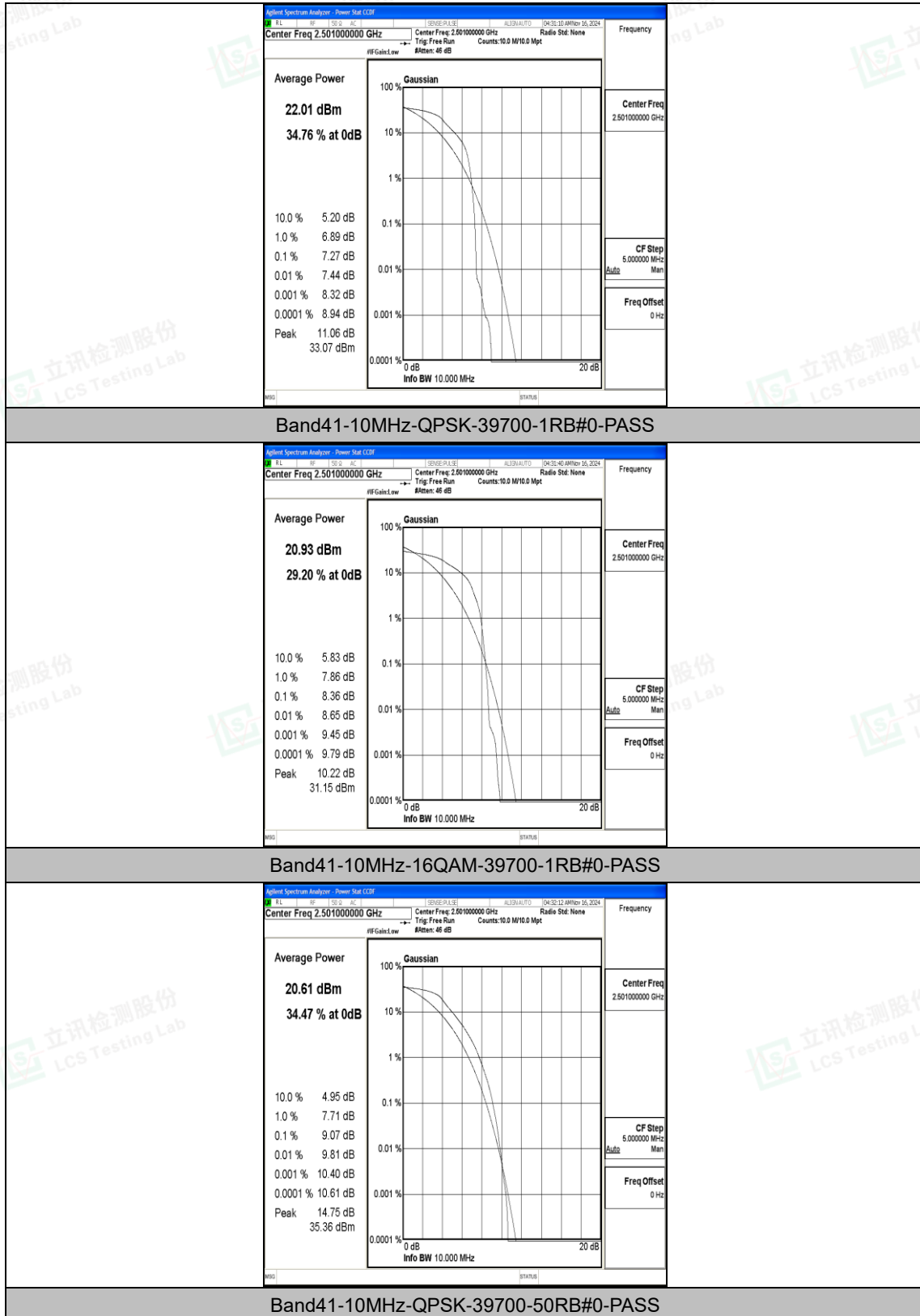
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

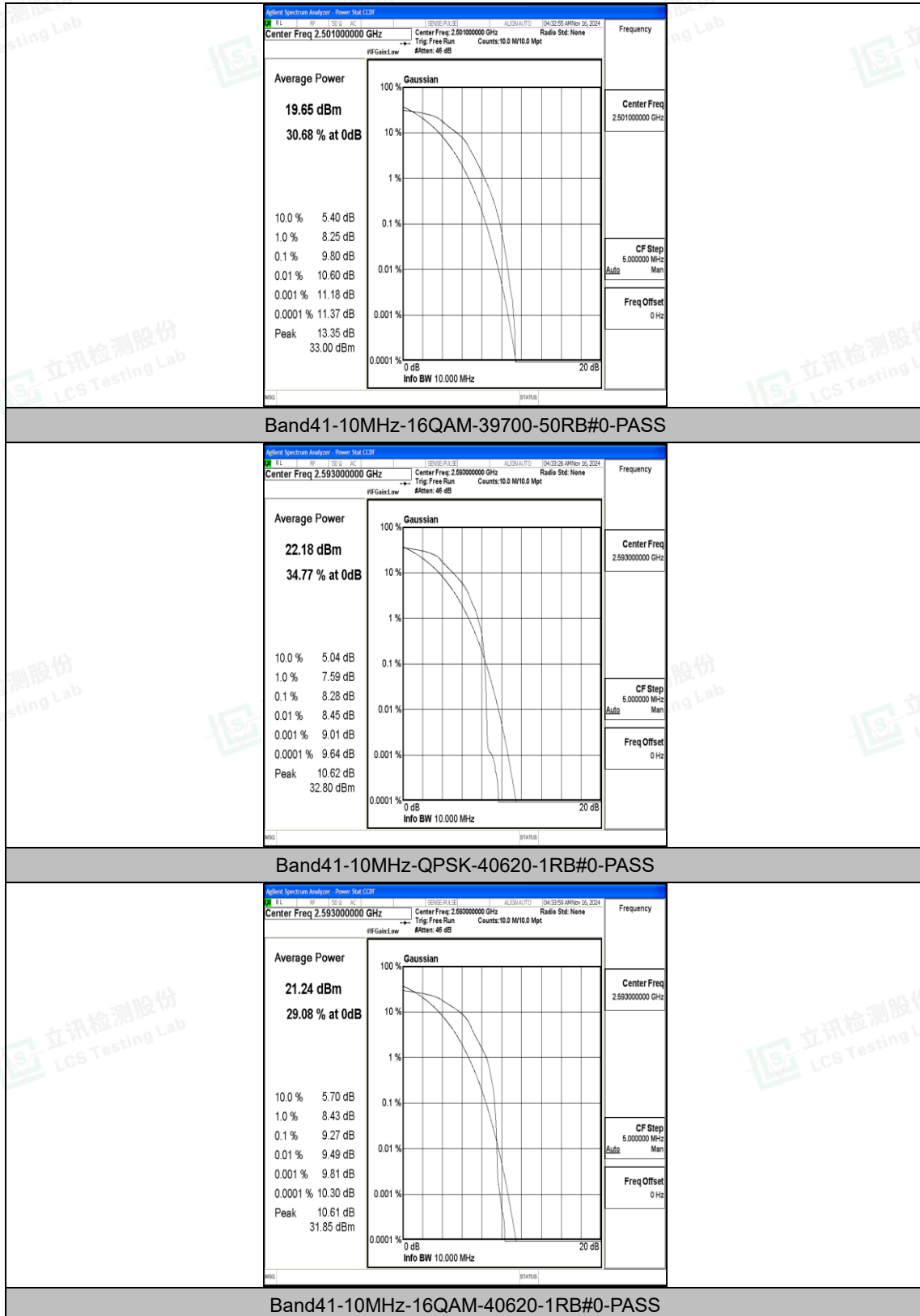
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

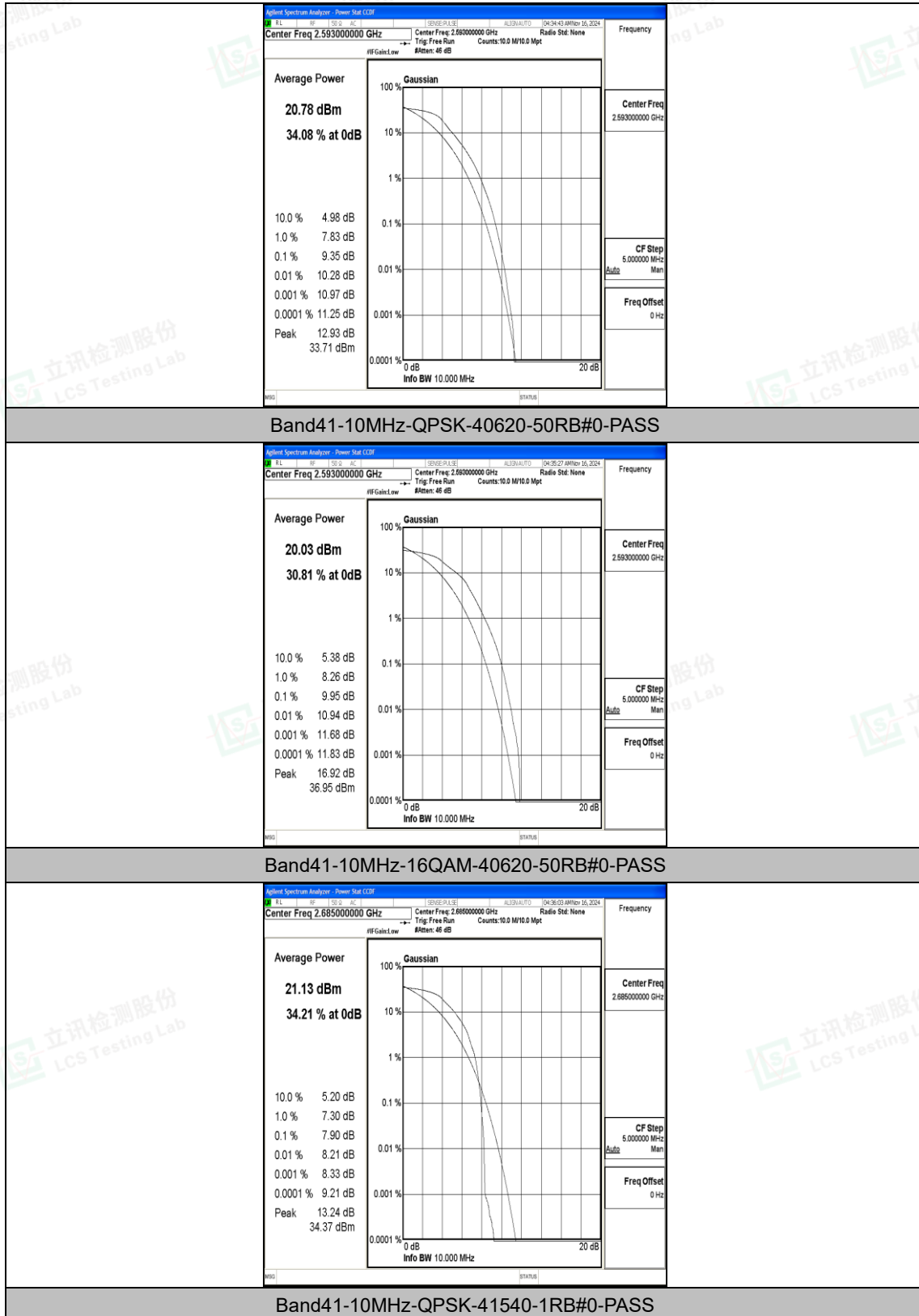
Scan code to check authenticity

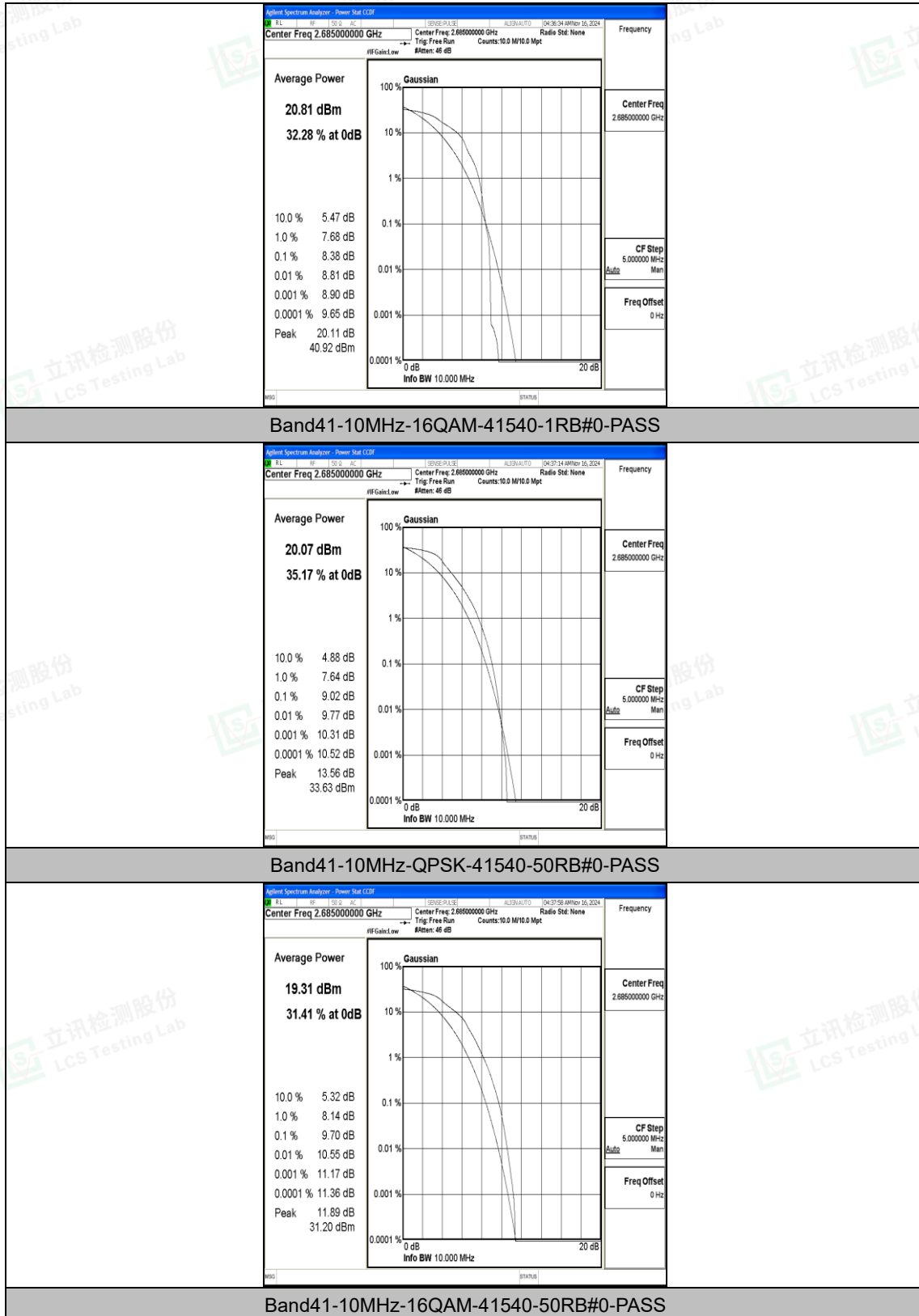














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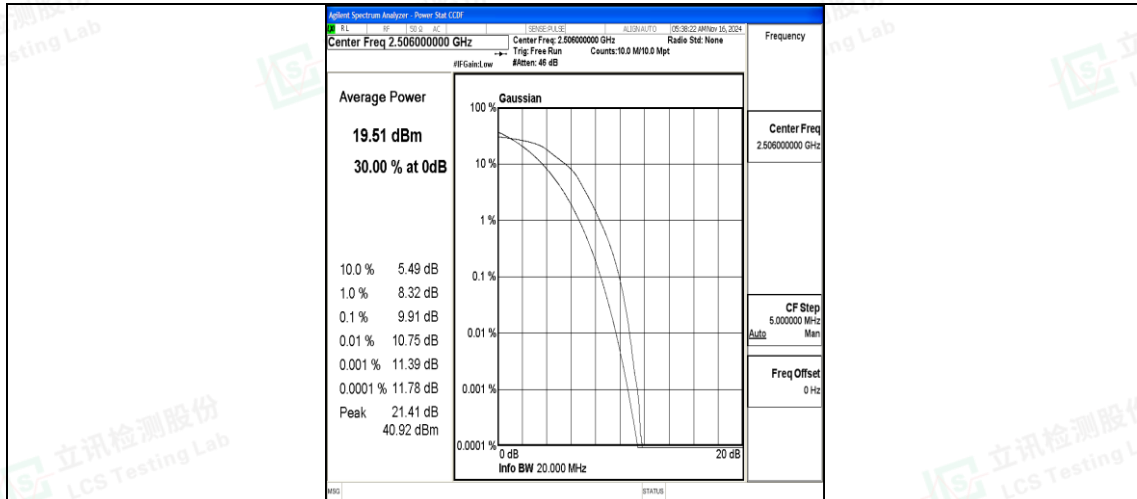
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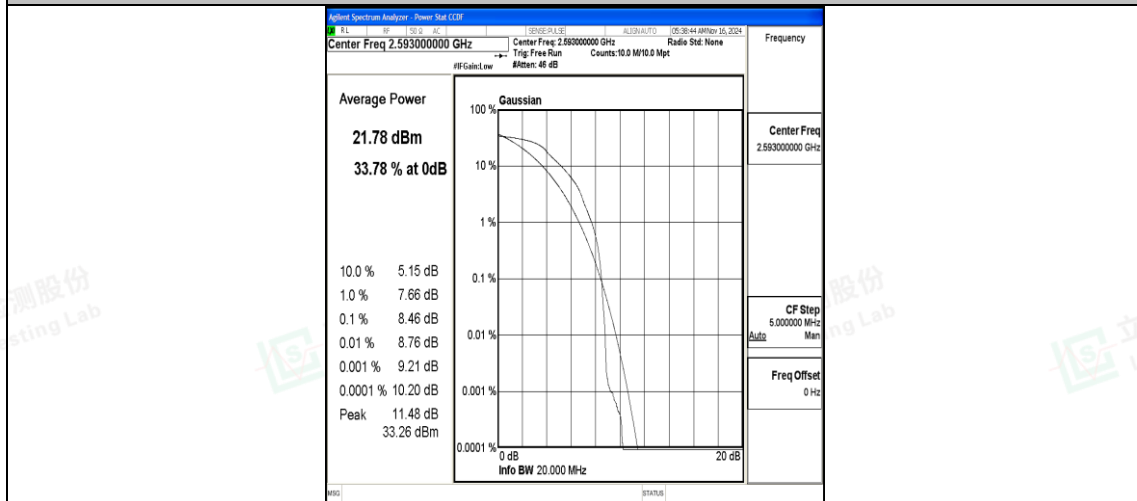
Scan code to check authenticity



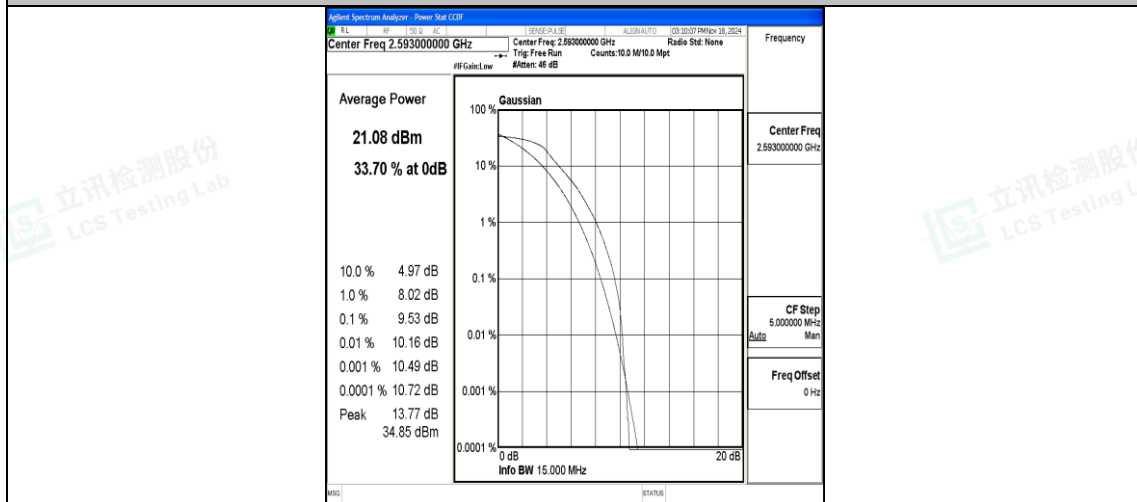




Band41-20MHz-16QAM-39750-100RB#0-PASS

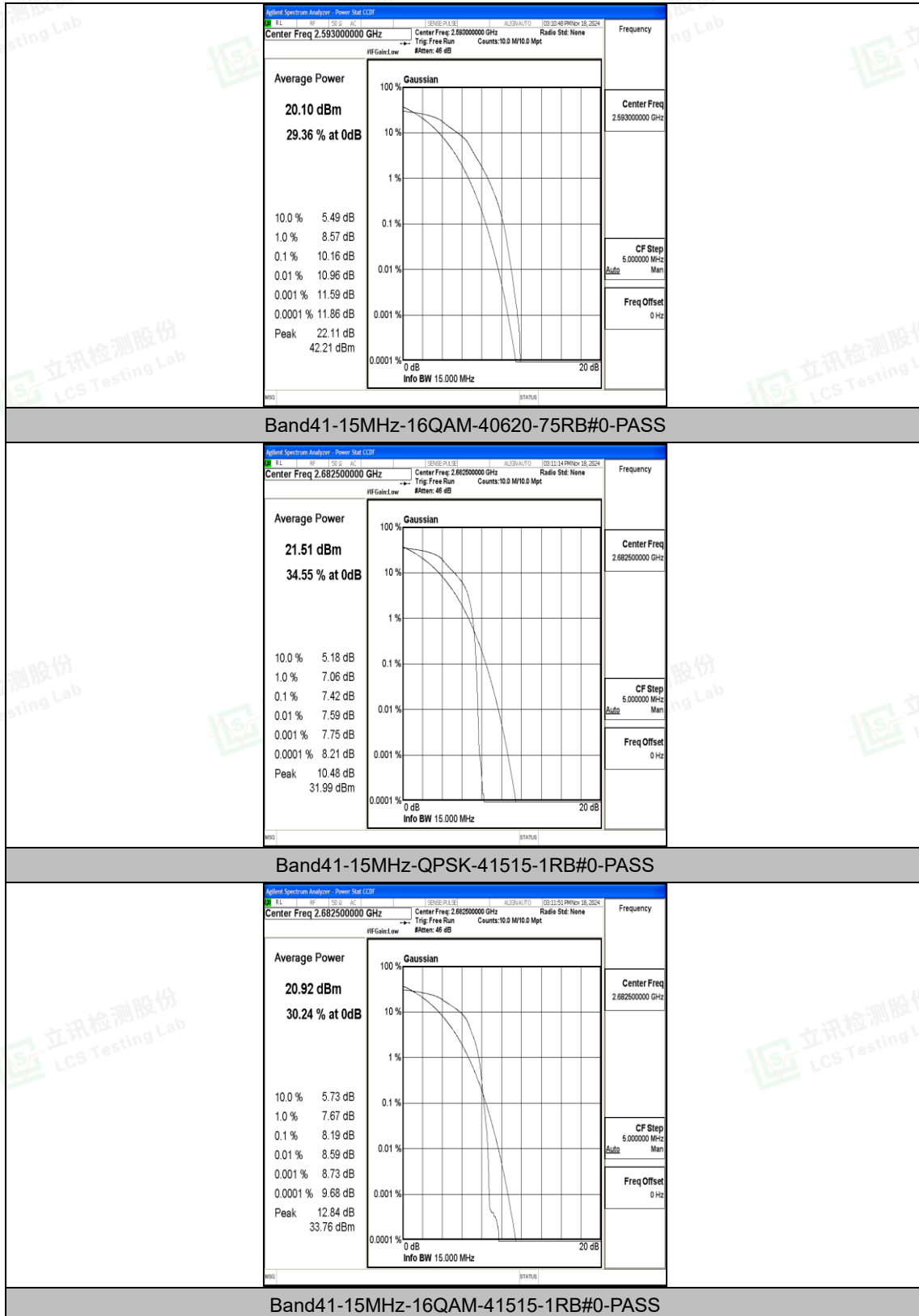


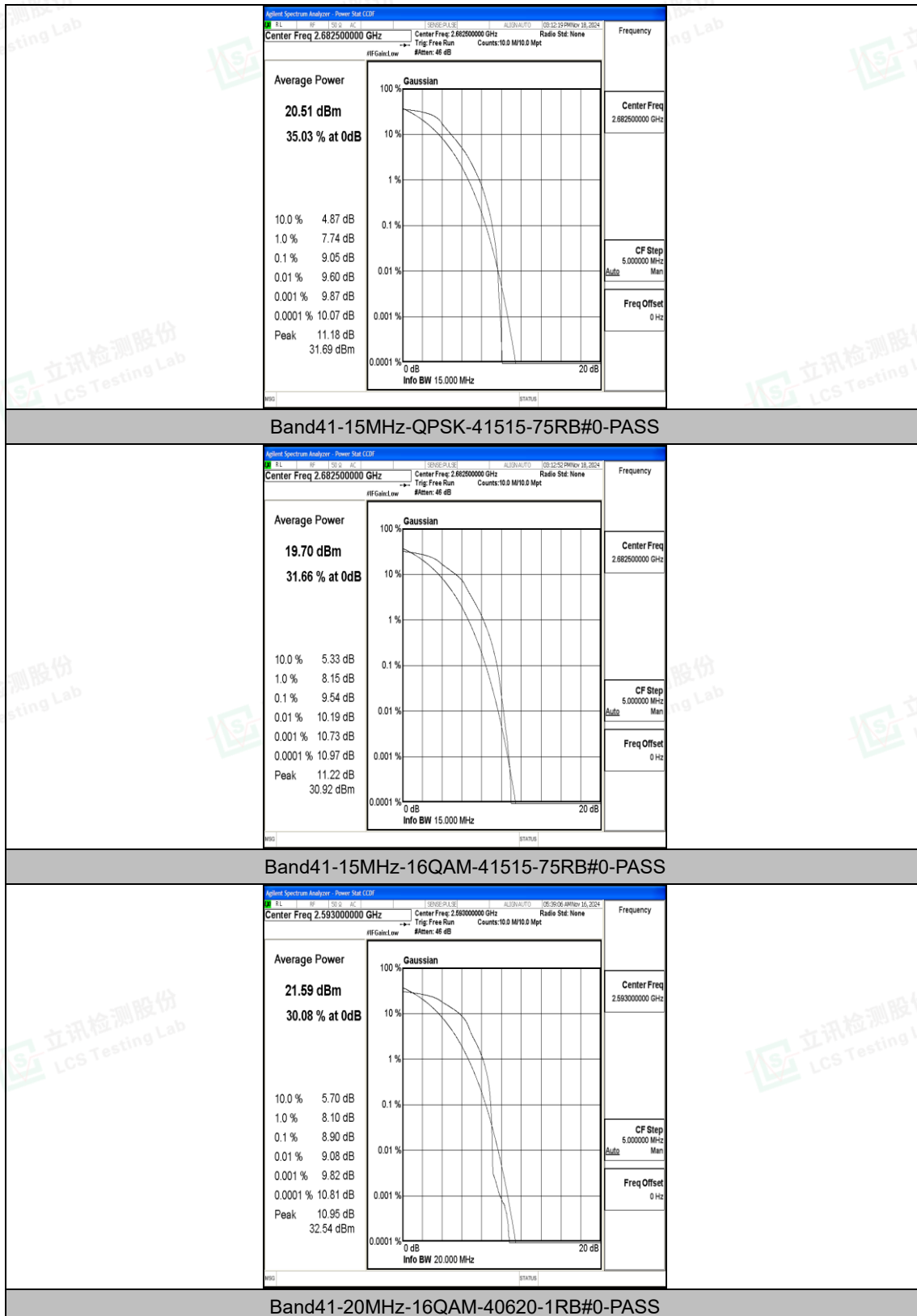
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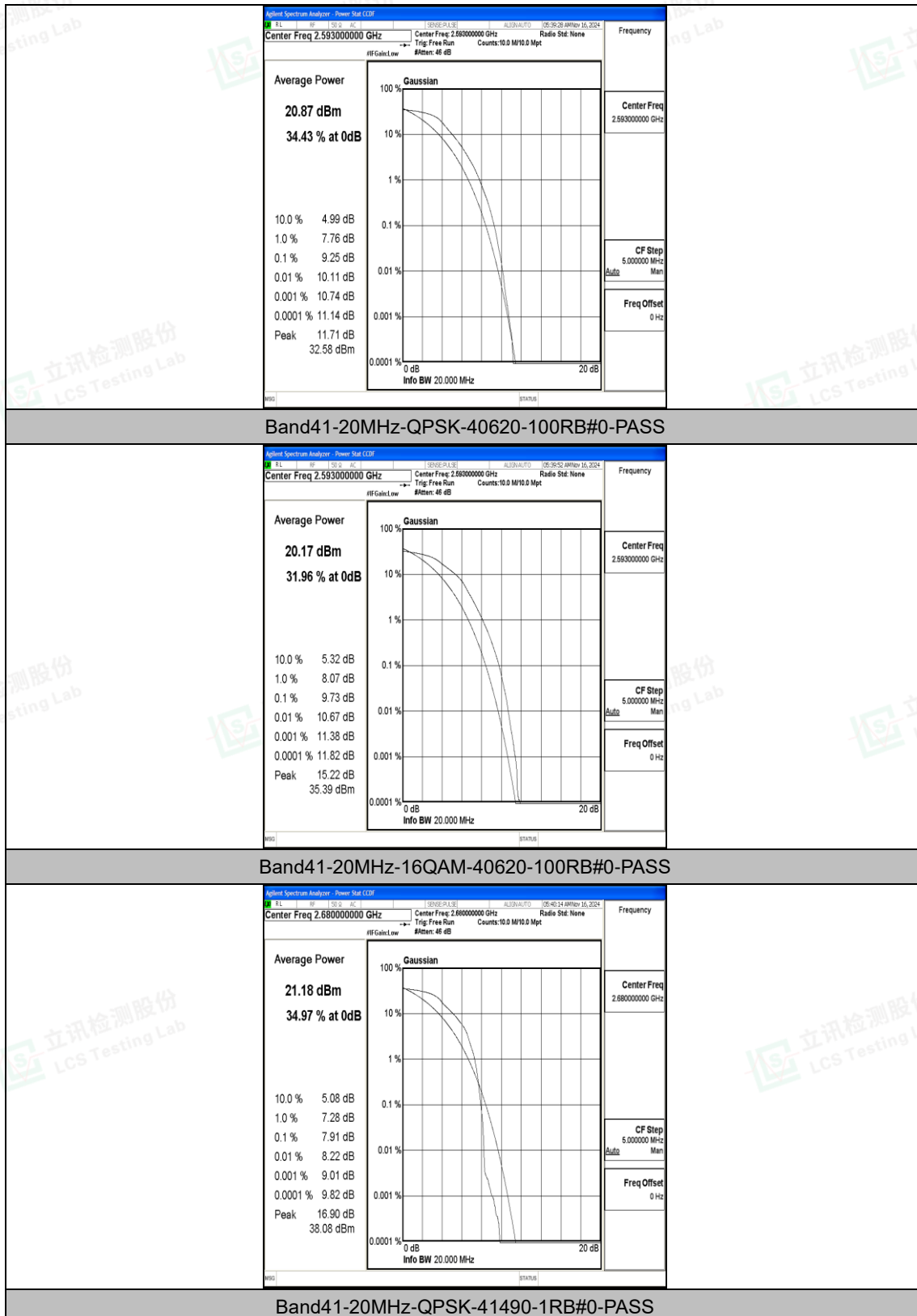


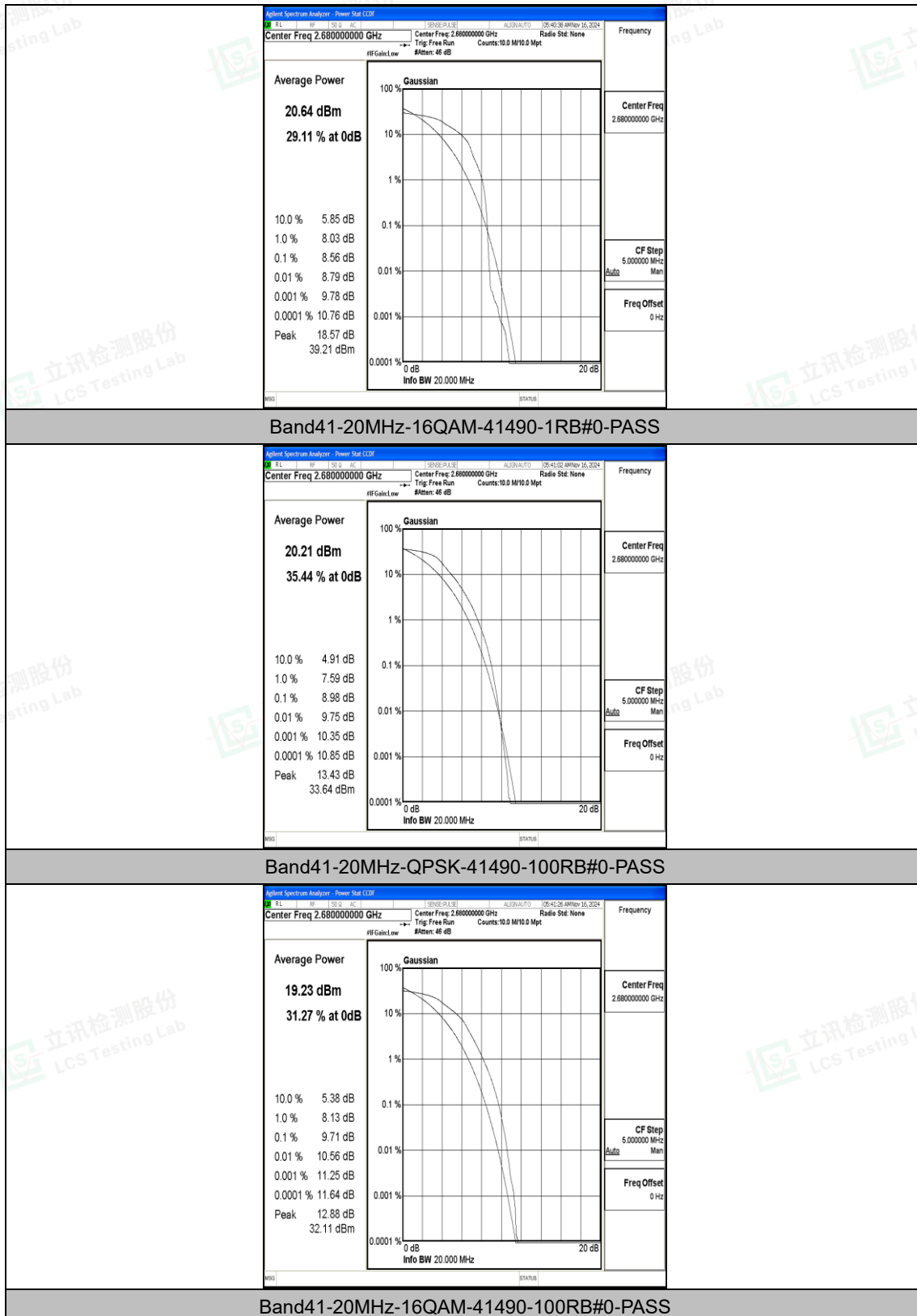
Band41-15MHz-QPSK-40620-75RB#0-PASS













M.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	4.5114	5.376	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5024	5.157	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5020	5.110	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4937	5.216	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4859	4.922	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4949	4.946	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9607	10.07	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9844	10.10	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9922	10.60	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9834	9.897	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0038	10.36	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9998	9.859	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.486	15.48	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.538	14.82	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.502	15.53	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.481	14.90	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.425	15.31	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.467	14.97	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.012	19.58	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.983	19.75	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.984	19.39	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.969	19.47	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.998	19.41	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.937	19.74	PASS



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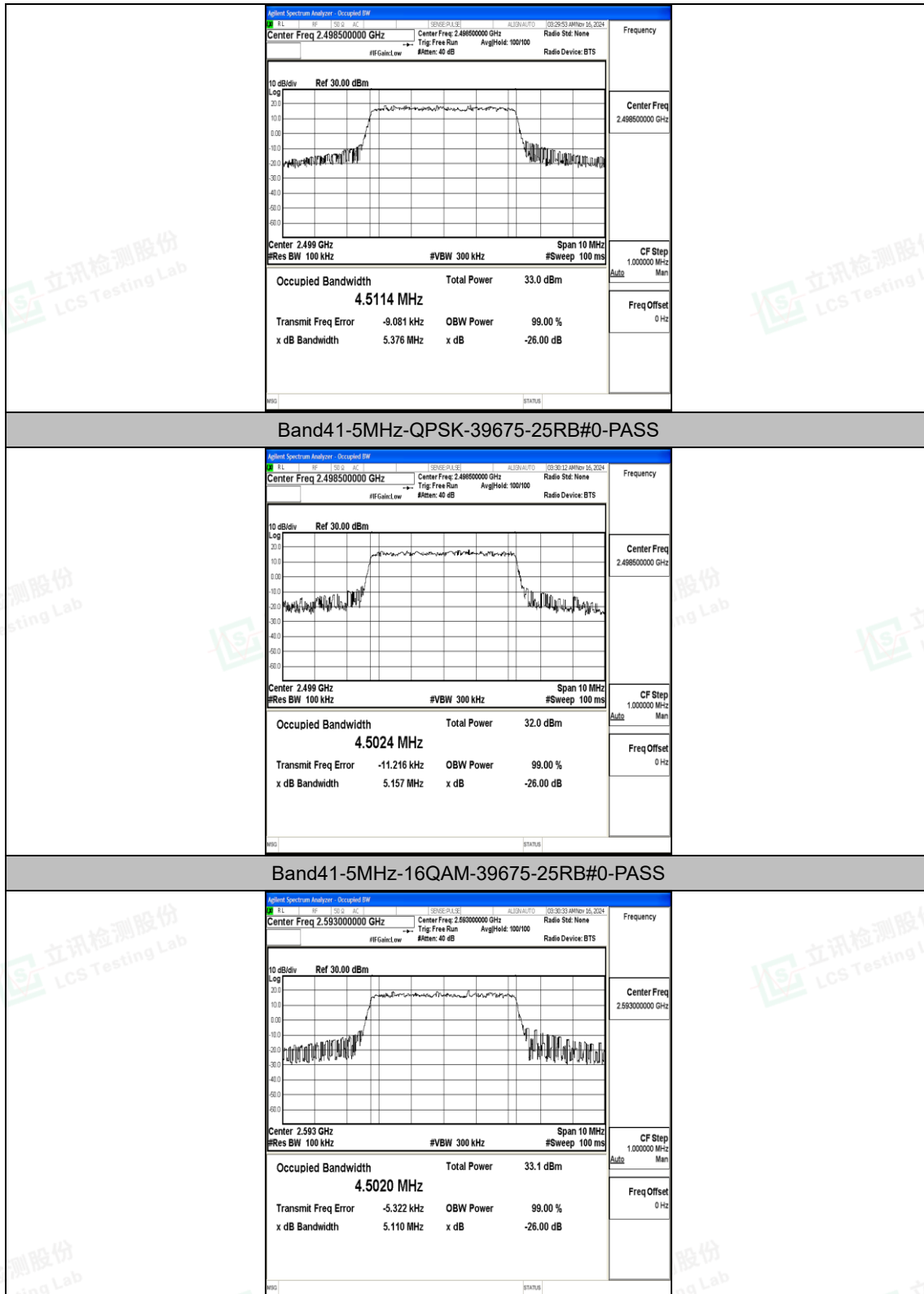
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

Scan code to check authenticity

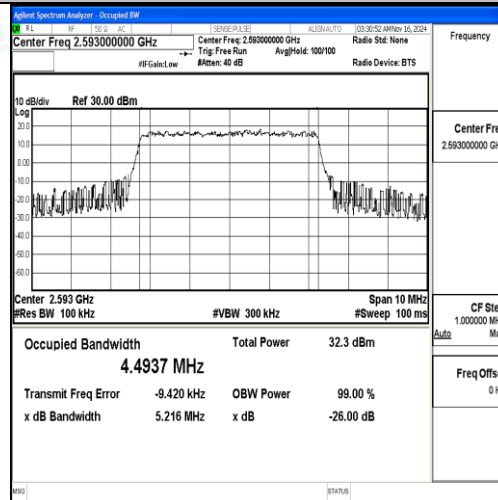


Test Graphs

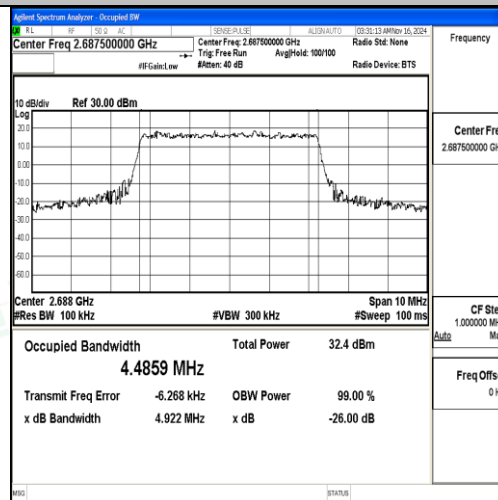




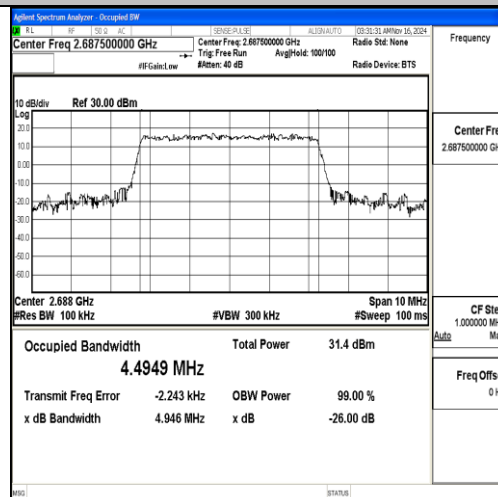
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Band41-5MHz-16QAM-40620-25RB#0-PASS



Band41-5MHz-QPSK-41565-25RB#0-PASS



Band41-5MHz-16QAM-41565-25RB#0-PASS

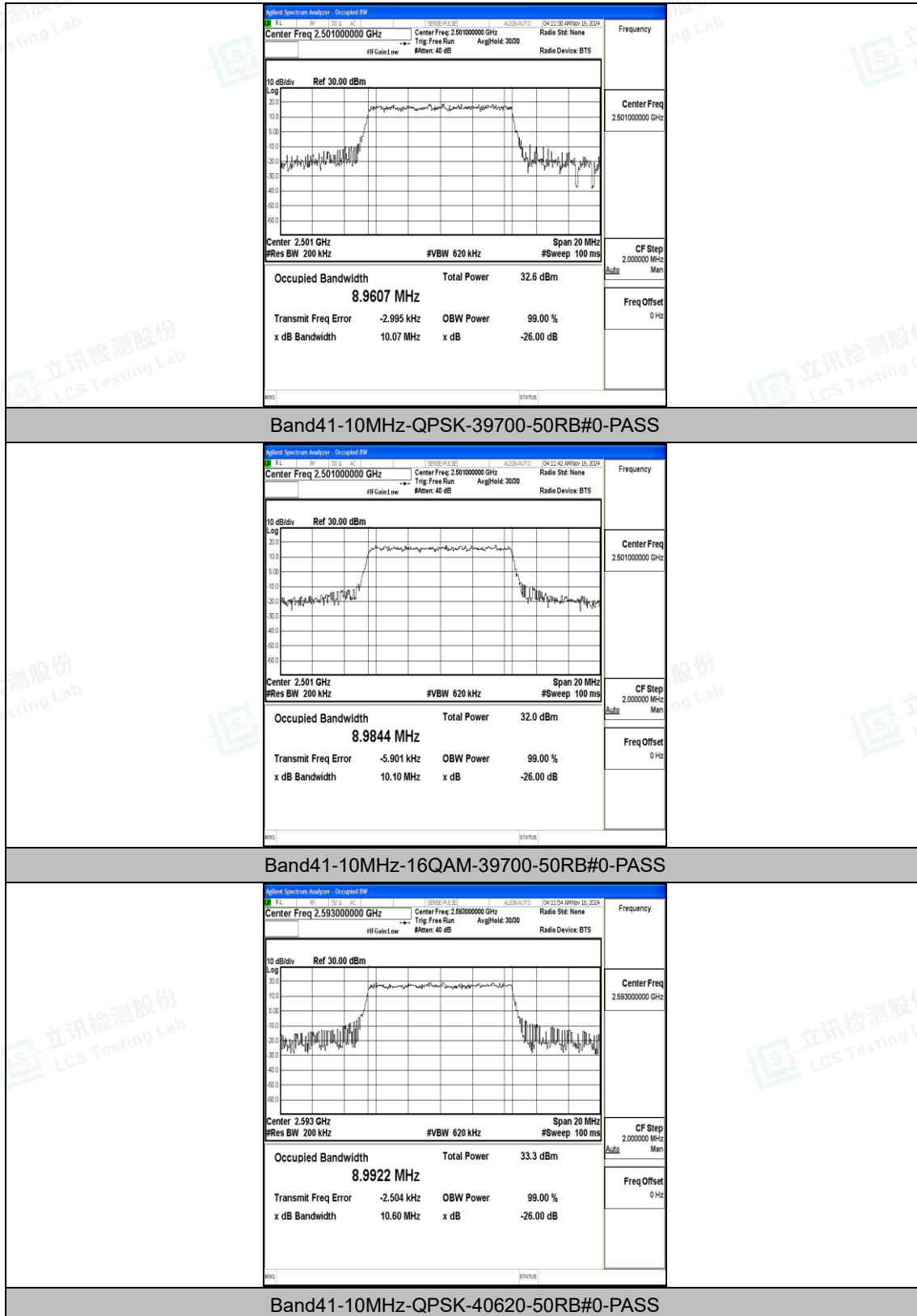


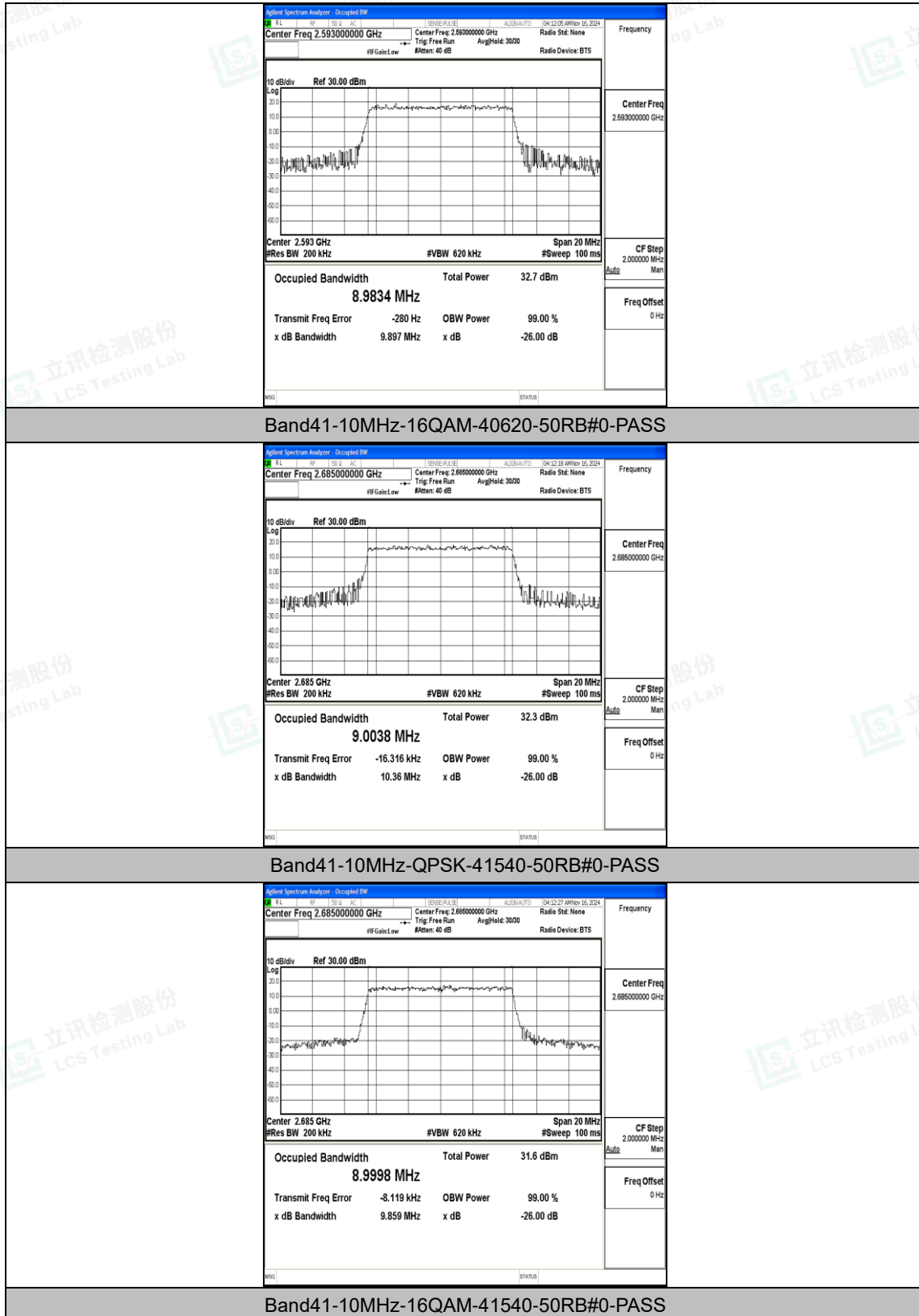
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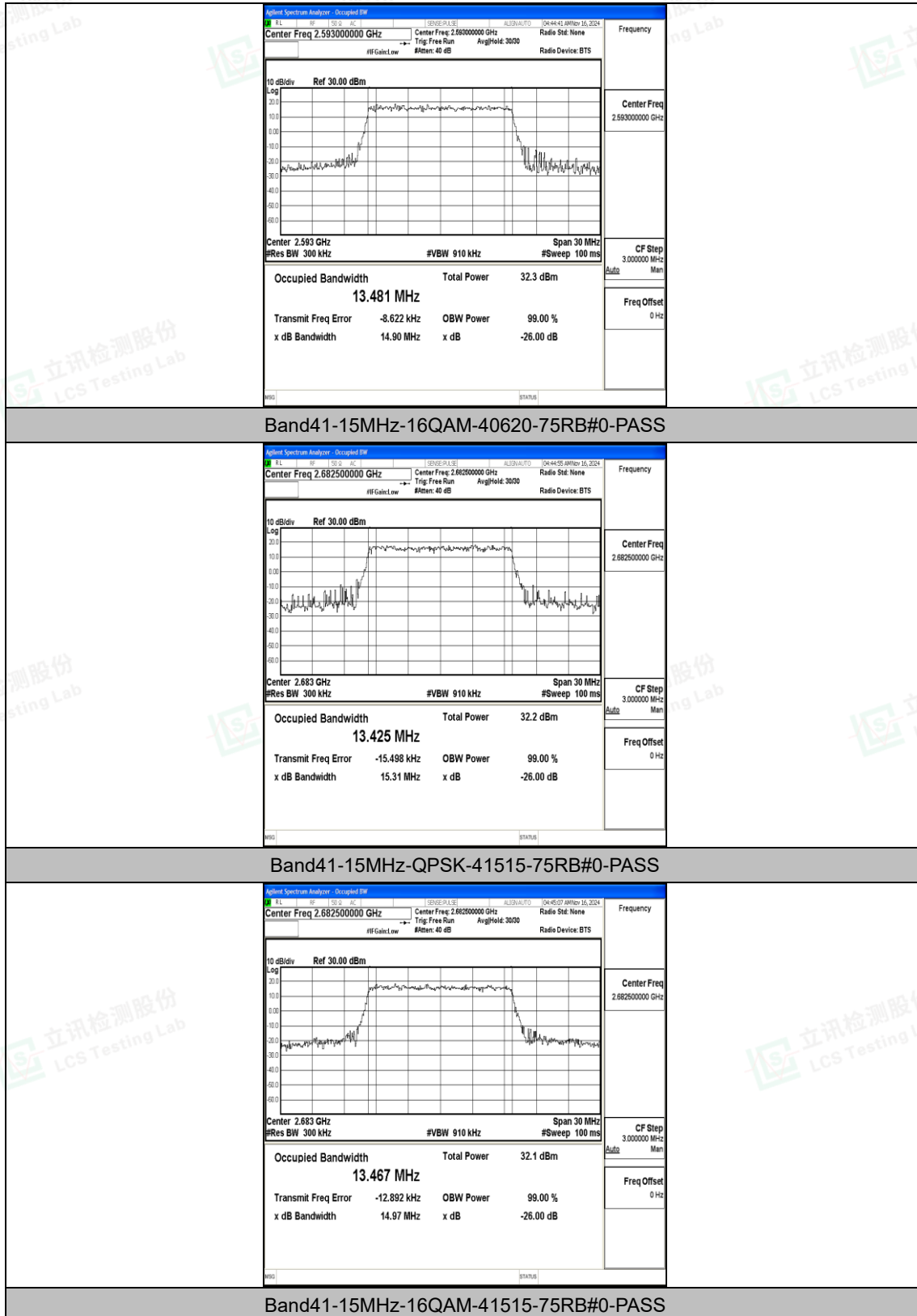
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

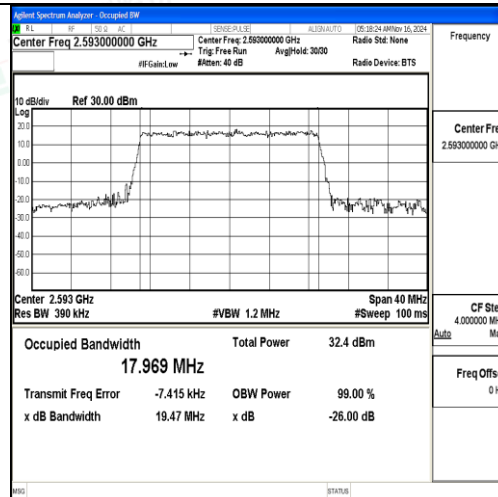




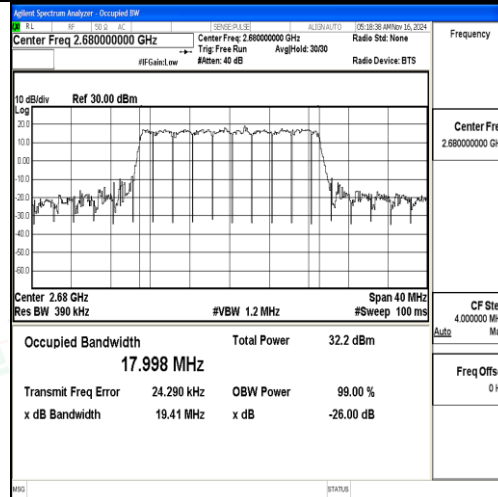




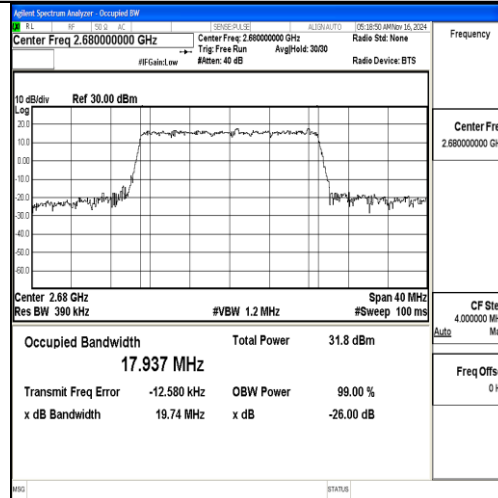




Band41-20MHz-16QAM-40620-100RB#0-PASS



Band41-20MHz-QPSK-41490-100RB#0-PASS



Band41-20MHz-16QAM-41490-100RB#0-PASS



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Scan code to check authenticity

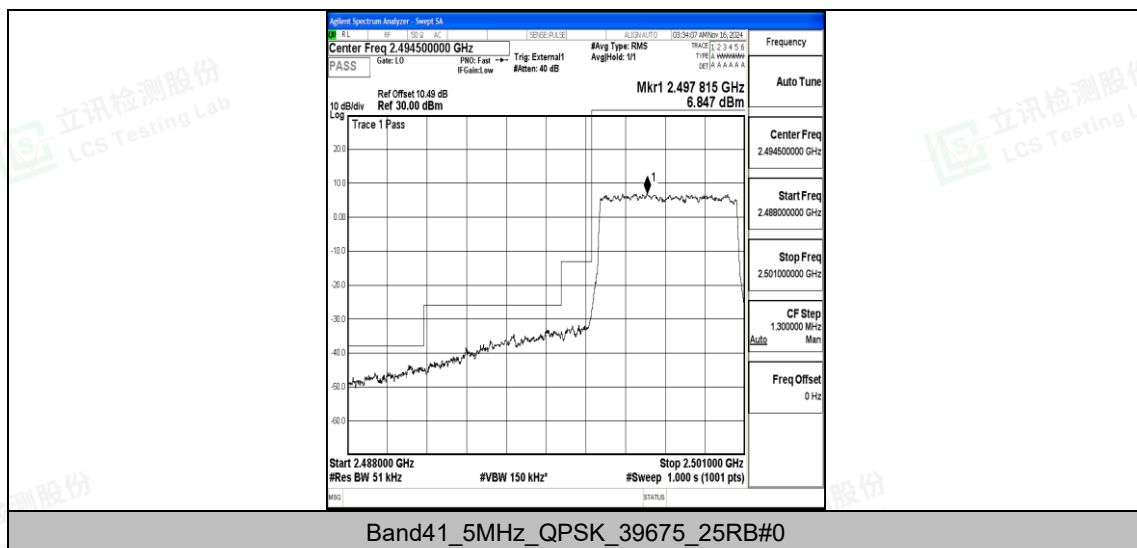


M.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	2490.02	-43.59	PASS
Band41	5MHz	16QAM	39675	25RB#0	2490.42	-46.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	2696.36	-42.95	PASS
Band41	5MHz	16QAM	41565	25RB#0	2696.03	-44.22	PASS
Band41	10MHz	QPSK	39700	50RB#0	2490.48	-36.46	PASS
Band41	10MHz	16QAM	39700	50RB#0	2490.45	-37.82	PASS
Band41	10MHz	QPSK	41540	50RB#0	2700.05	-39.92	PASS
Band41	10MHz	16QAM	41540	50RB#0	2700.13	-40.66	PASS
Band41	20MHz	QPSK	39750	100RB#0	2490.30	-33.53	PASS
Band41	20MHz	16QAM	39750	100RB#0	2490.44	-34.20	PASS
Band41	15MHz	QPSK	39725	75RB#0	2489.29	-26.08	PASS_Final1
Band41	15MHz	QPSK	39725	75RB#0	2490.30	-46.83	PASS
Band41	15MHz	16QAM	39725	75RB#0	2489.52	-46.87	PASS
Band41	15MHz	QPSK	41515	75RB#0	2706.19	-43.85	PASS
Band41	15MHz	16QAM	41515	75RB#0	2707.24	-43.82	PASS
Band41	20MHz	QPSK	41490	100RB#0	2710.55	-39.25	PASS
Band41	20MHz	16QAM	41490	100RB#0	2710.05	-40.09	PASS
Band41	15MHz	16QAM	39725	75RB#0	2489.47	-25.55	PASS_Final1

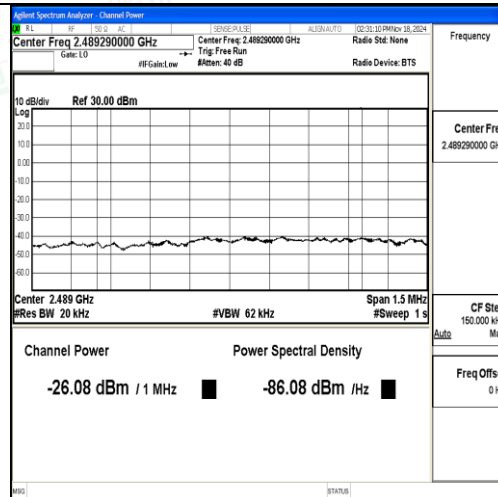
Test Graphs



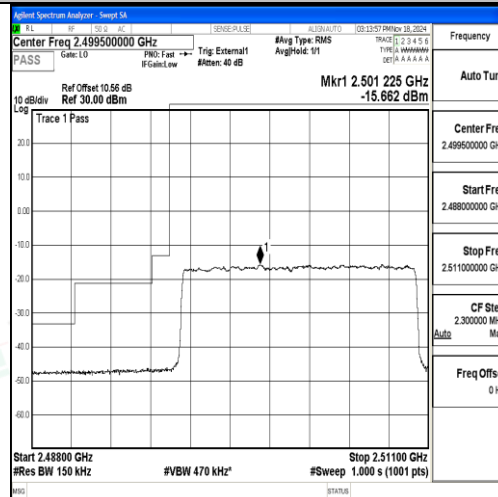




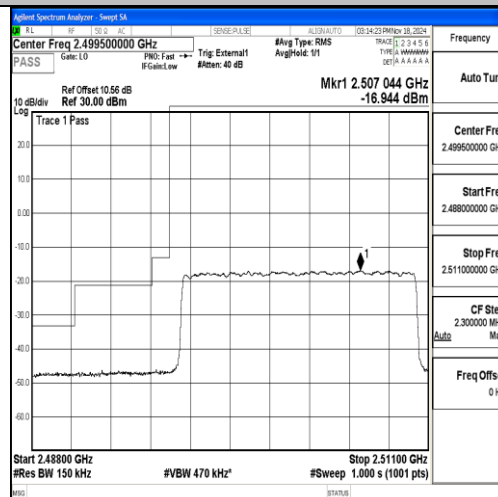




Band41_15MHz_QPSK_39725_75RB#0_Final1



Band41_15MHz_QPSK_39725_75RB#0



Band41_15MHz_16QAM_39725_75RB#0





