



Appendix C: Test Data for E-UTRA Band 5

Product Name: 4G Battery Camera

Test Model: SP1-4G

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Sean Huang
Supervised by:	Nick Peng



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C.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.24	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.22	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.25	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.29	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.26	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.62	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.34	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.71	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.17	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.14	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.16	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.23	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.38	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.10	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.16	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.13	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.05	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.04	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.25	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.11	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.13	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.60	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.15	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.79	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.30	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.69	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.28	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.23	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.96	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.19	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.73	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.79	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.33	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.05	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.95	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	22.19	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.92	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.18	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.68	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.02	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.26	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.78	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.91	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.59	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.96	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.54	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.16	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.57	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.07	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.72	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.08	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.72	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.11	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.74	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.01	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.47	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.97	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.84	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.96	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.87	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.11	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.62	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.02	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.63	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.03	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.64	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.11	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.73	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.04	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.42	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.95	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.24	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.74	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.09	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.25	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.95	PASS



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Band5	3MHz	QPSK	20635	8RB#0	22.12	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.63	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.16	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.65	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.98	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.66	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.01	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.59	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.96	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.92	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.96	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.81	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.00	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.91	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.00	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.56	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.00	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.56	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.05	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.59	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.97	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.81	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.70	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.86	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.75	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.98	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.69	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.56	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.11	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.56	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.04	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.59	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.02	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.60	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.05	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.36	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.02	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.50	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.98	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.44	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.45	PASS



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Band5	5MHz	16QAM	20625	1RB#24	21.97	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.16	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.55	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.19	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.47	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.13	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.67	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.14	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.73	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.89	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.51	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.88	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.61	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.85	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.66	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.19	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.41	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.19	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.42	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.02	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.44	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.08	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.60	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.98	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.66	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.04	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.68	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.07	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.68	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.12	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.78	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.05	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.78	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.06	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.65	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.00	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.58	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.97	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.07	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.93	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.05	PASS



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Band5	10MHz	QPSK	20600	1RB#49	22.54	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.56	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.11	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.61	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.19	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.68	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.04	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.11	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.70	PASS





C.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	4.82	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.08	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.49	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.09	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.62	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.48	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.36	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.91	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.95	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.54	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.45	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.07	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.92	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.66	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.58	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.27	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.65	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.21	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.36	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.97	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.06	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	3.97	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.79	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.36	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.05	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.64	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.61	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.21	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.86	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.94	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.50	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.04	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.08	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	4.48	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.26	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.82	13	PASS



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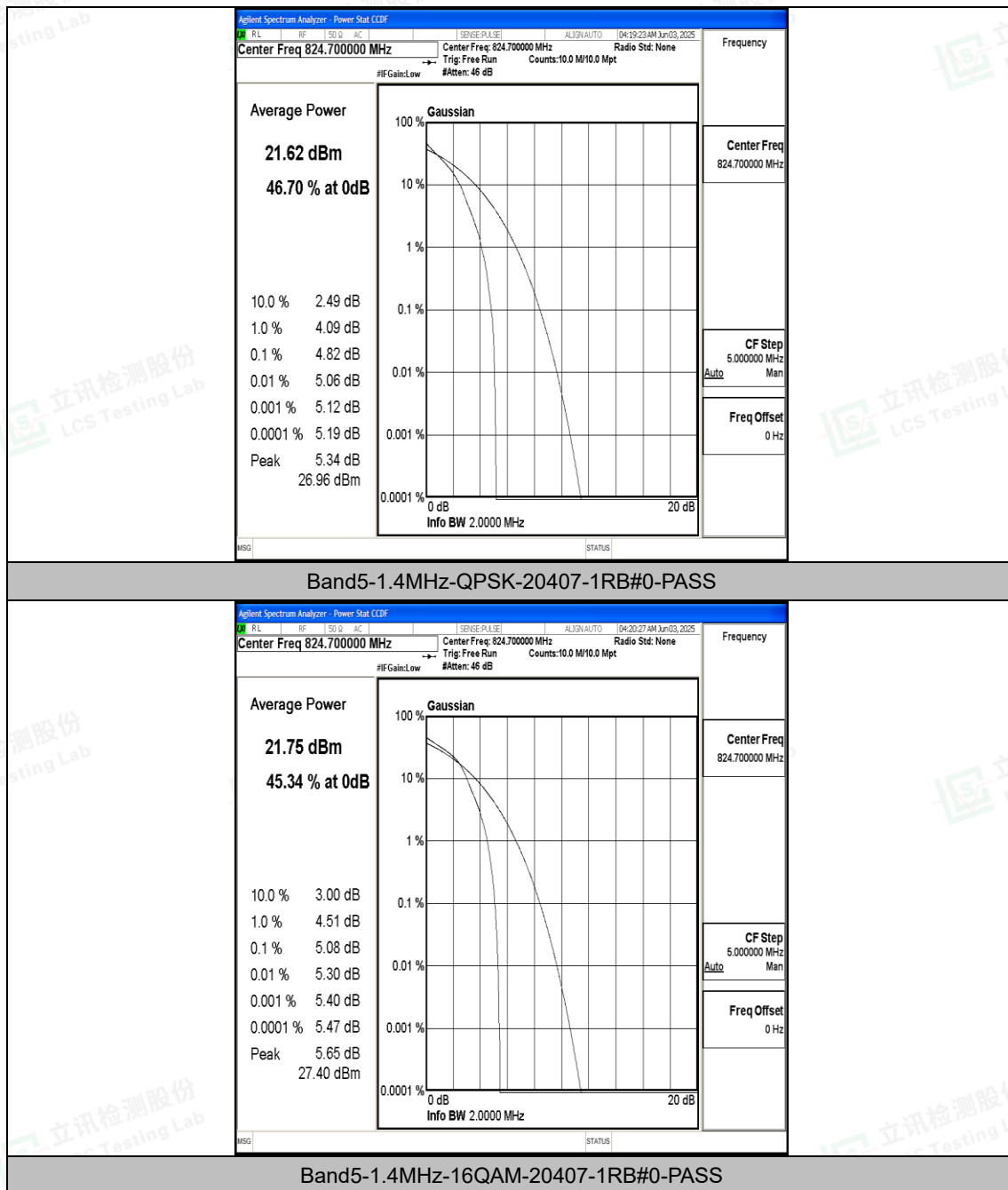


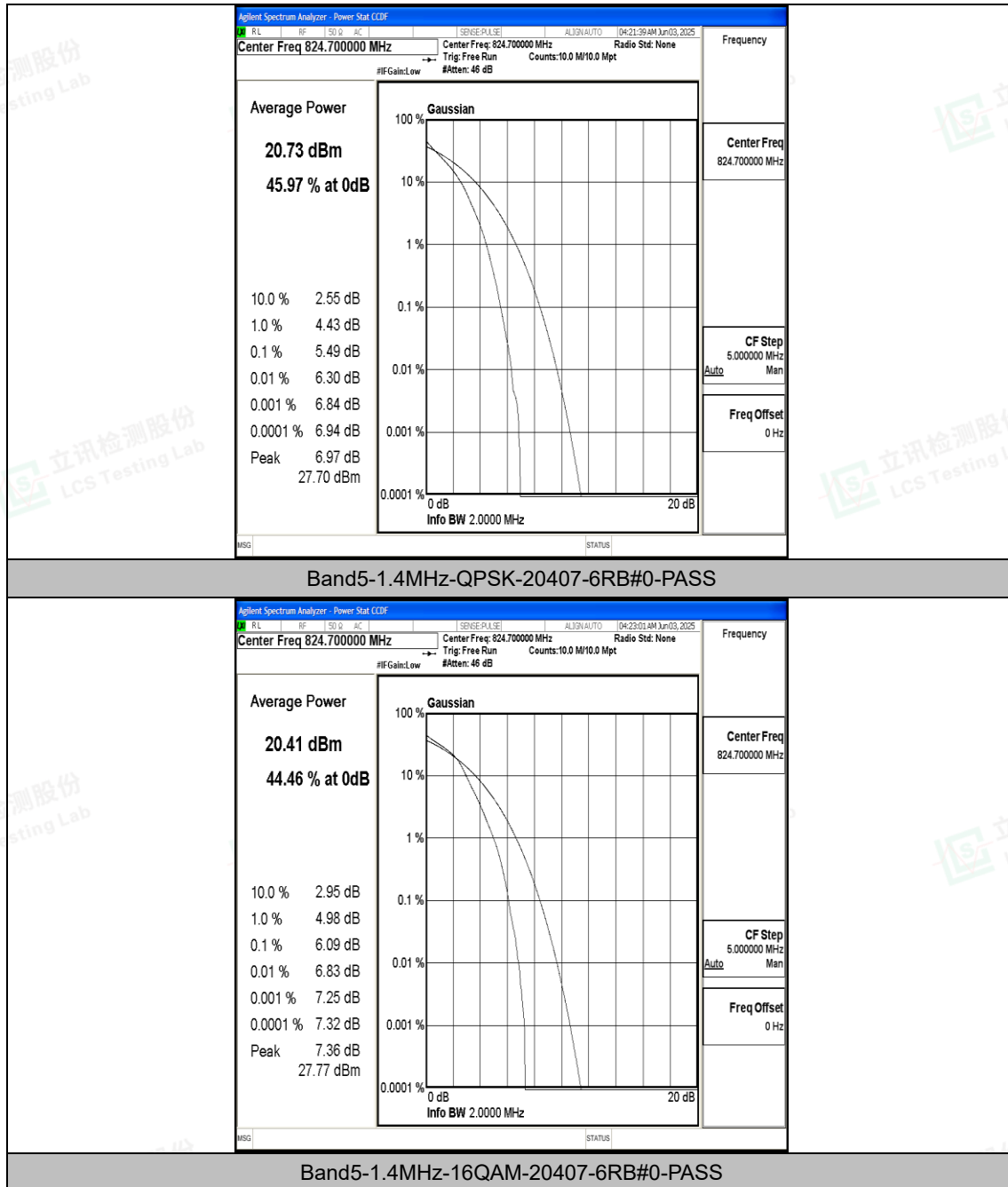
Band5	10MHz	QPSK	20450	1RB#0	5.03	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.53	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.56	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.19	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.41	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.50	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.14	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.67	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.91	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.27	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.90	13	PASS

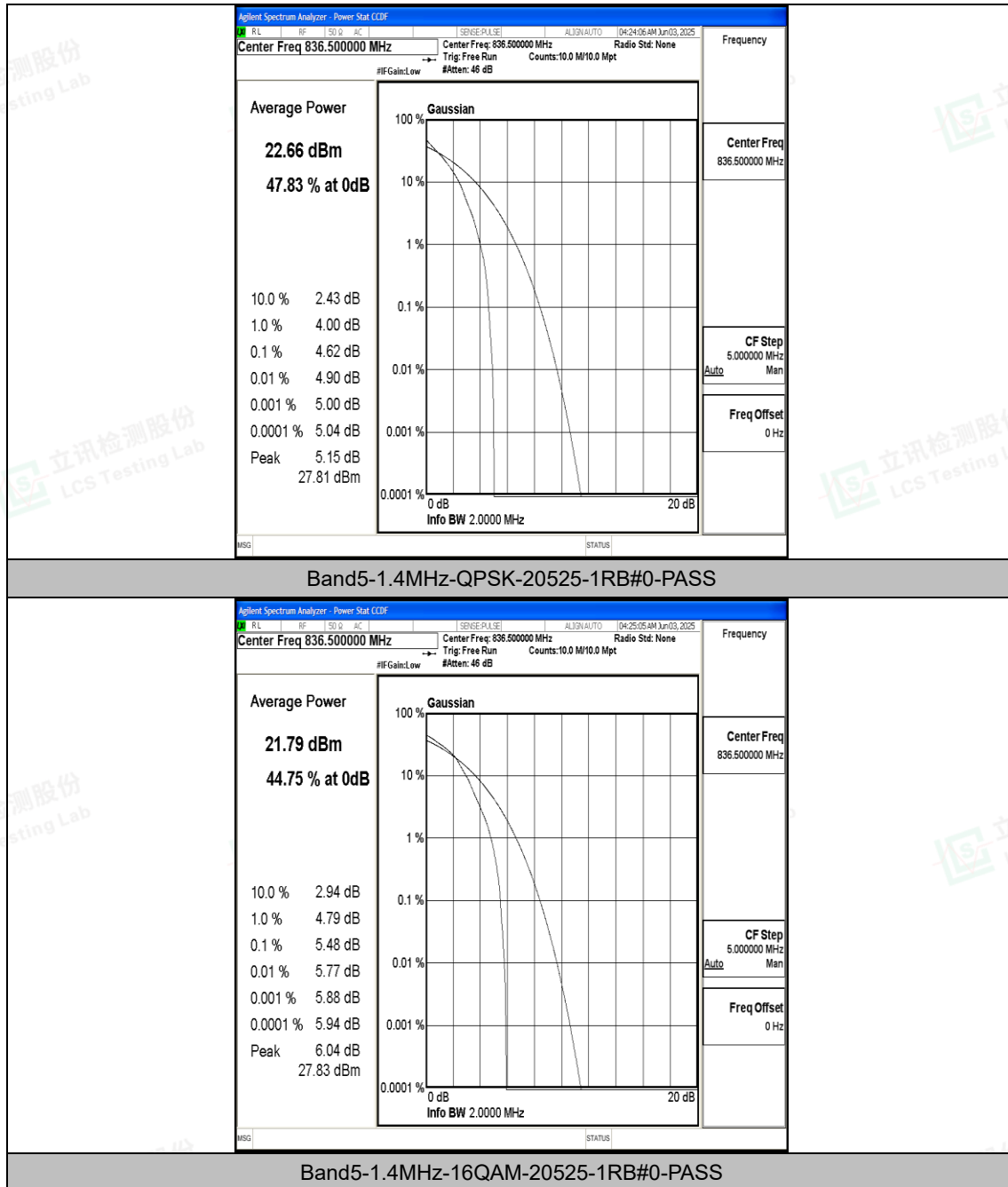


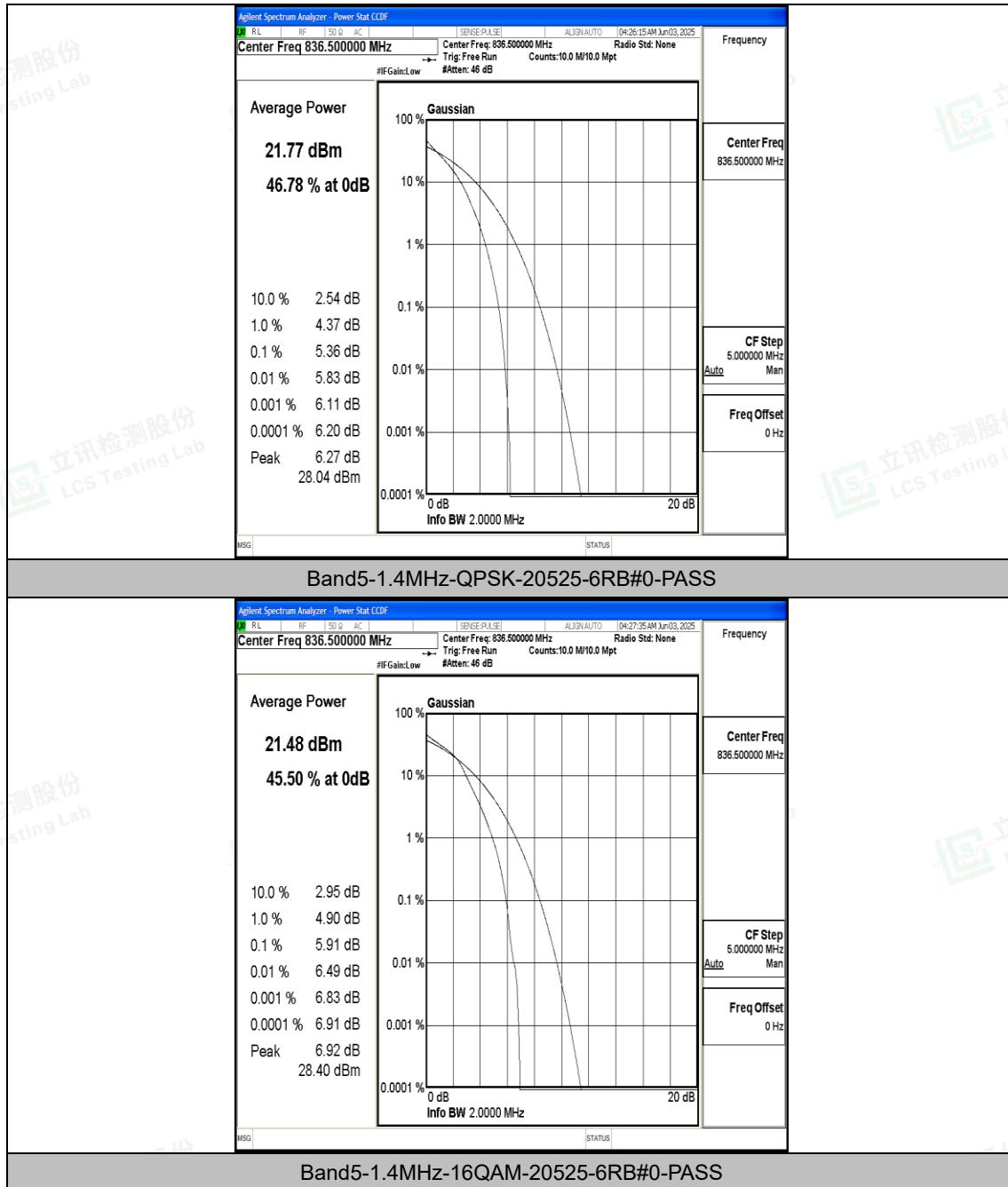


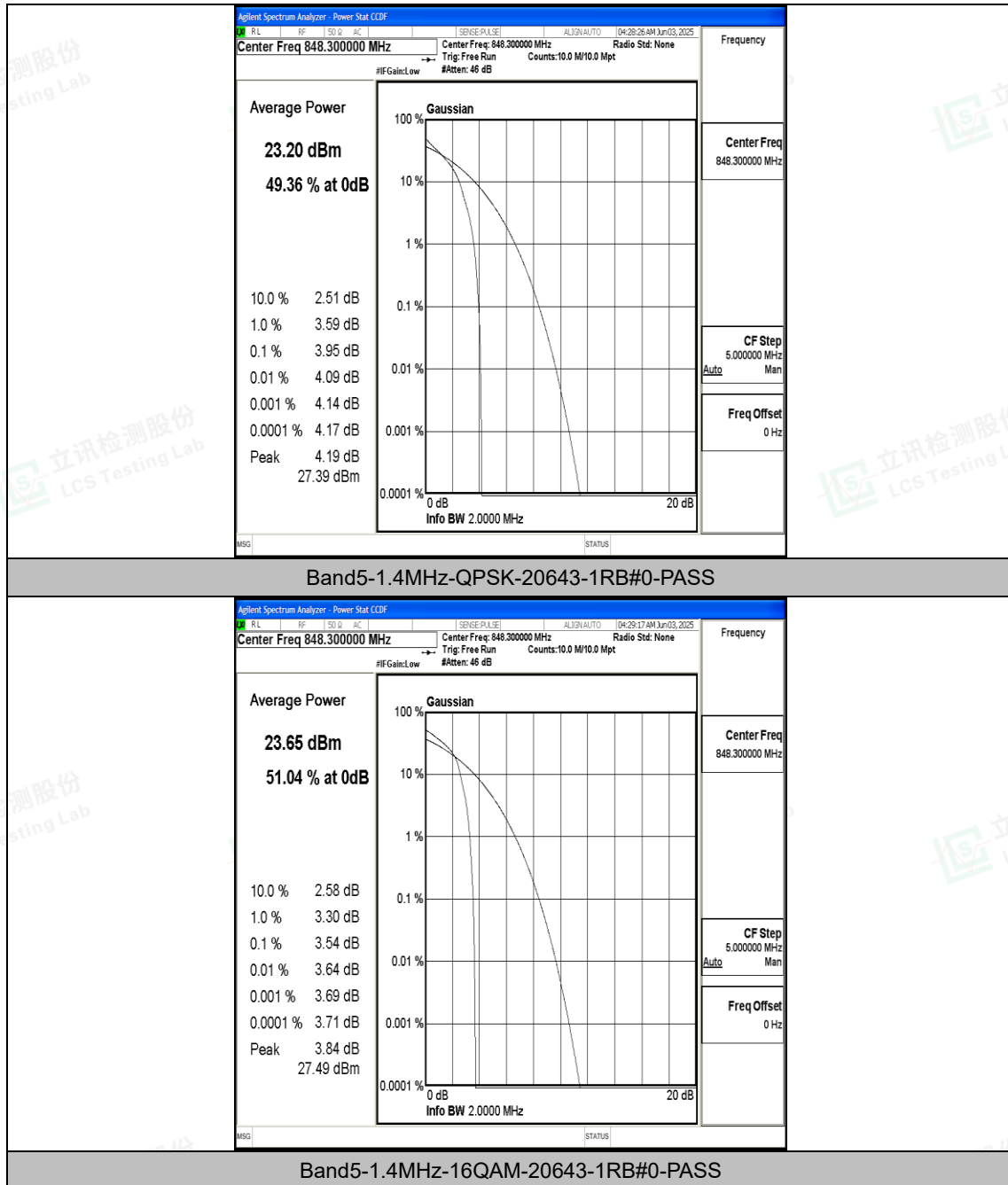
Test Graphs

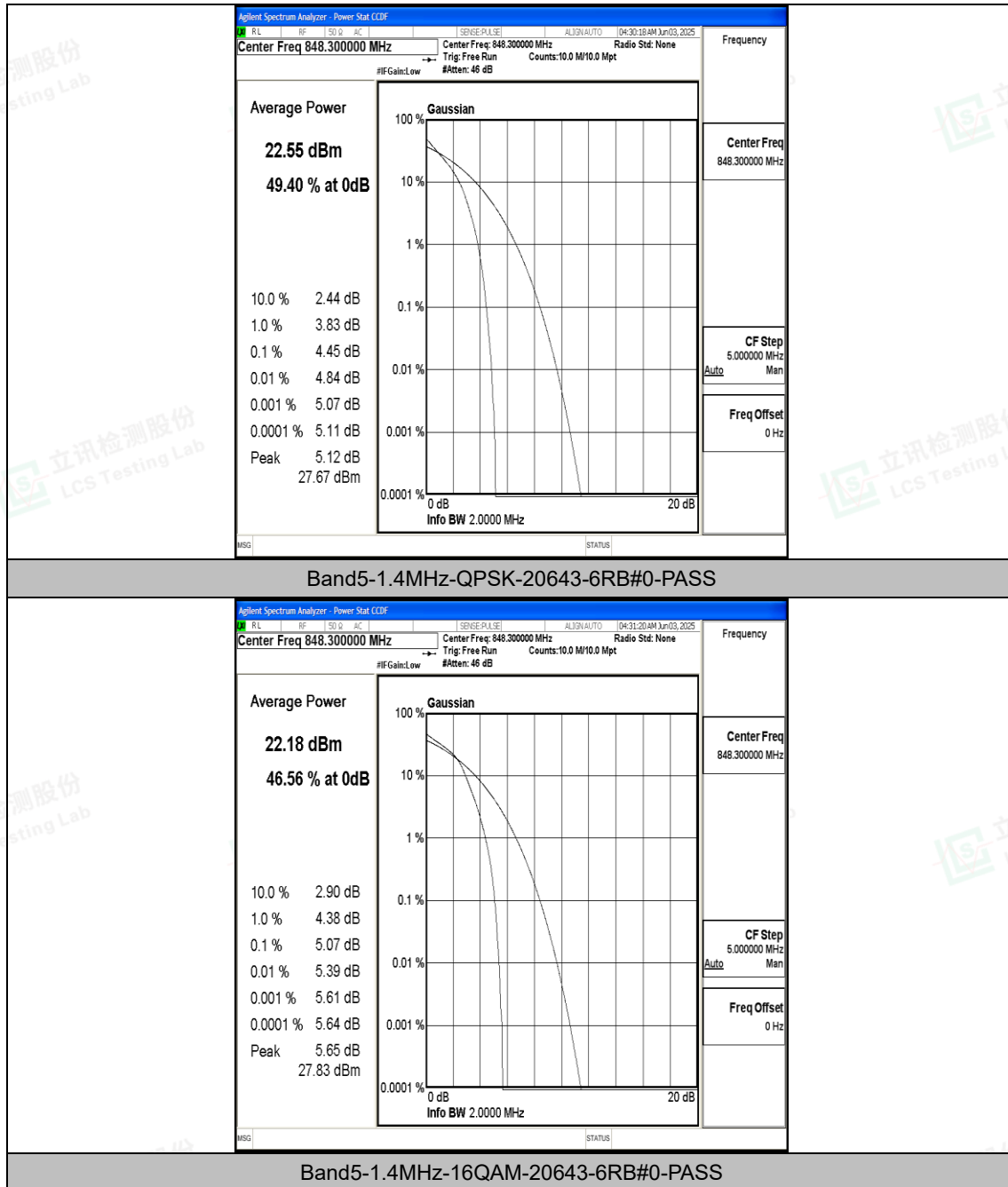


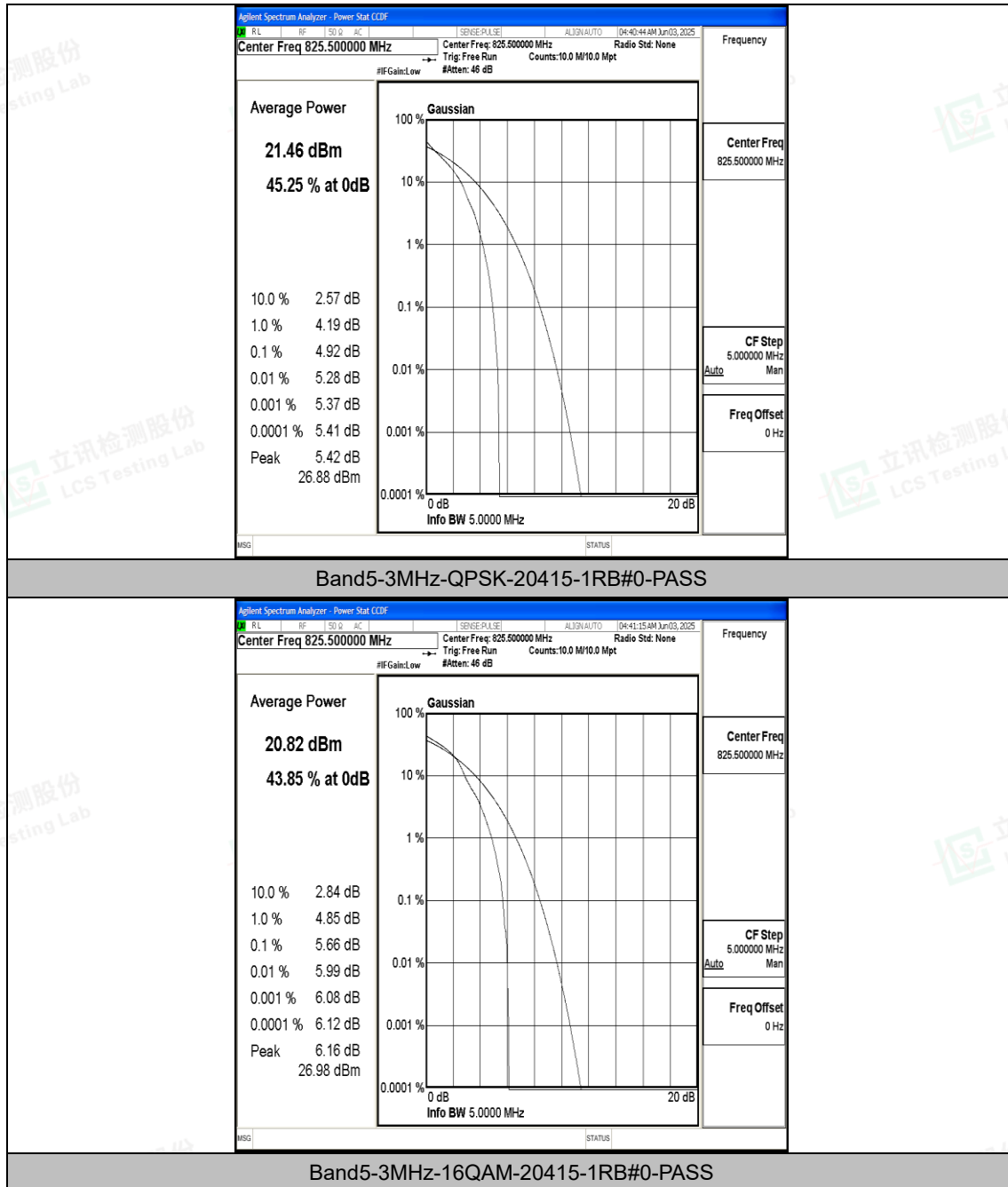


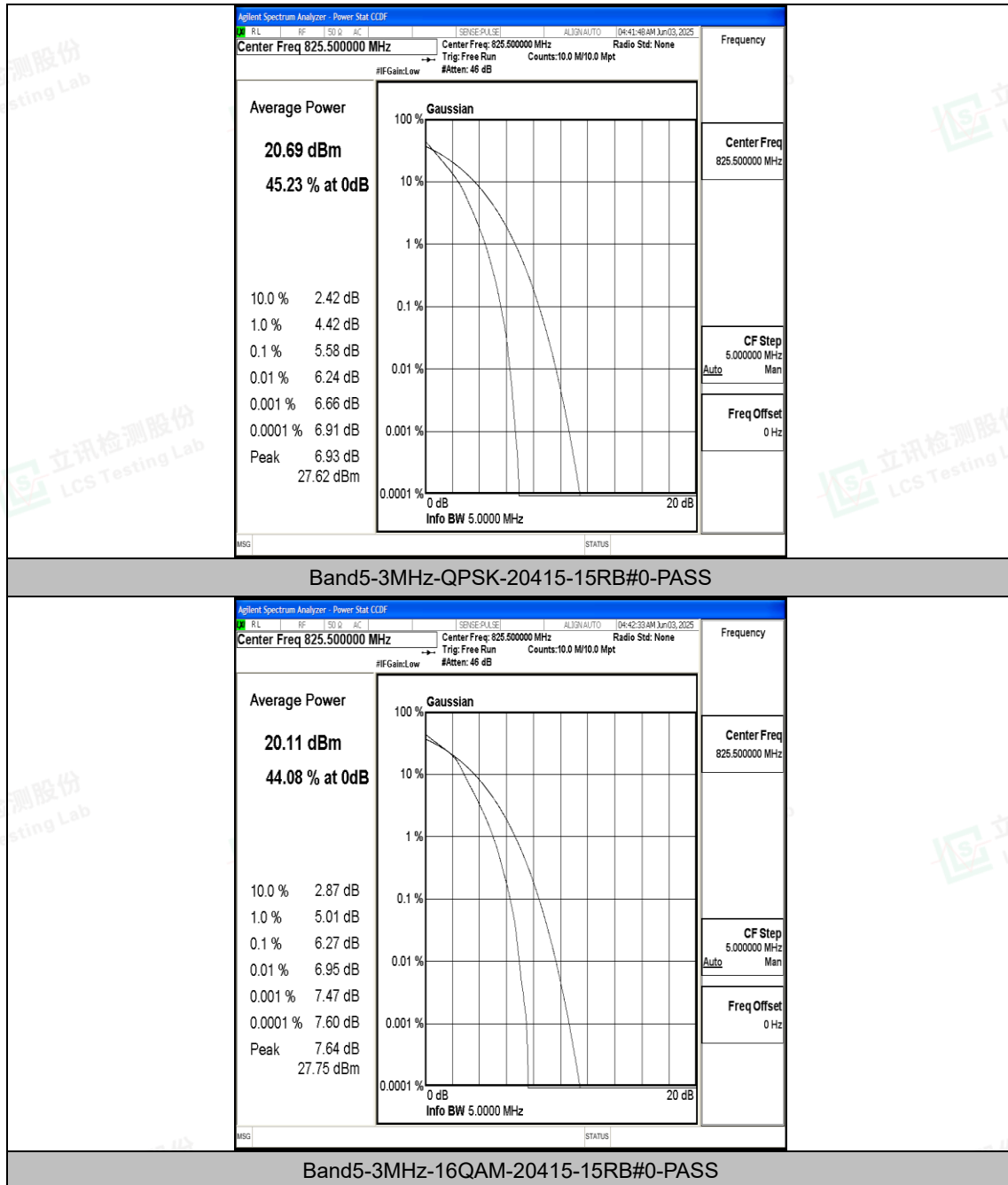


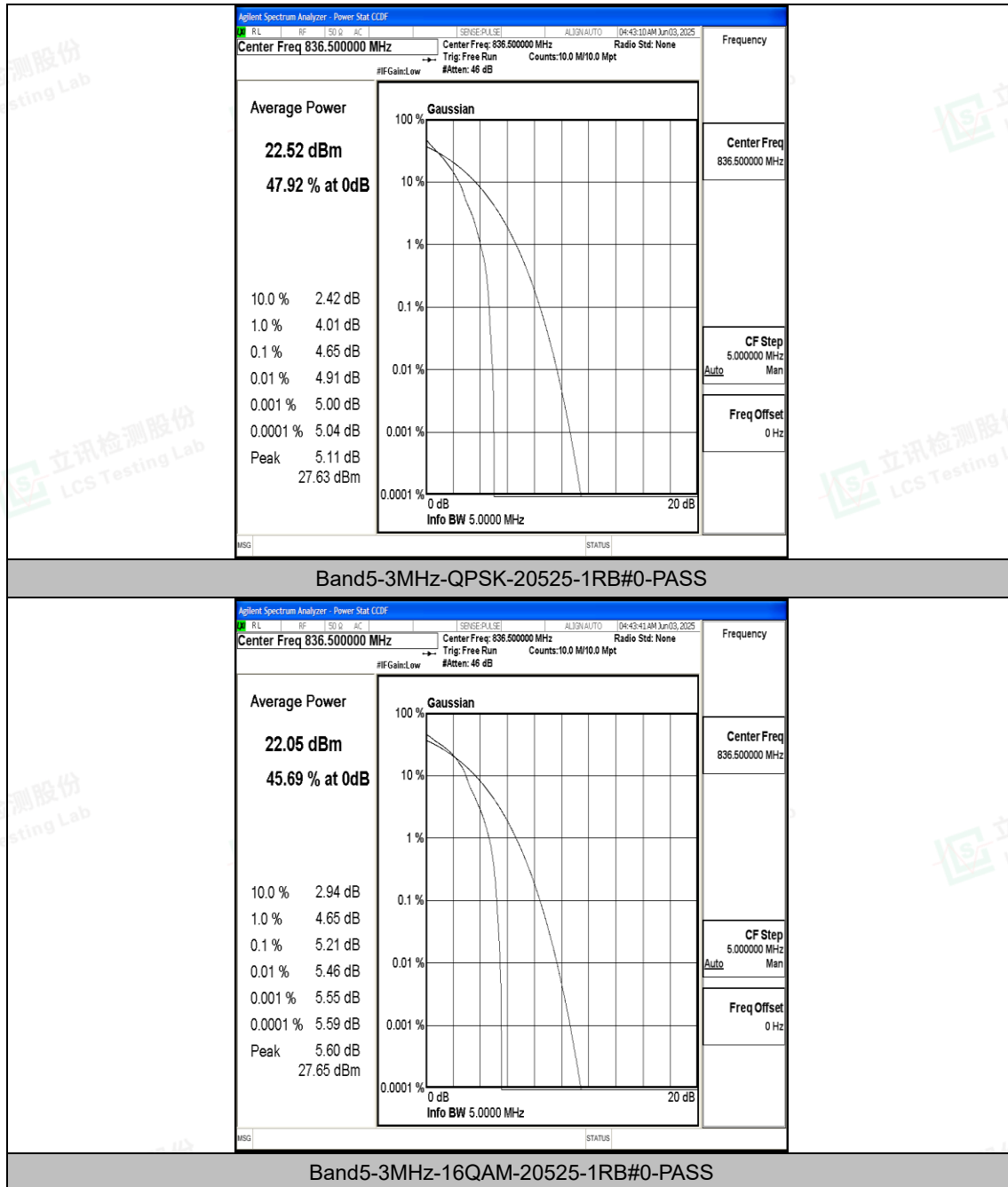


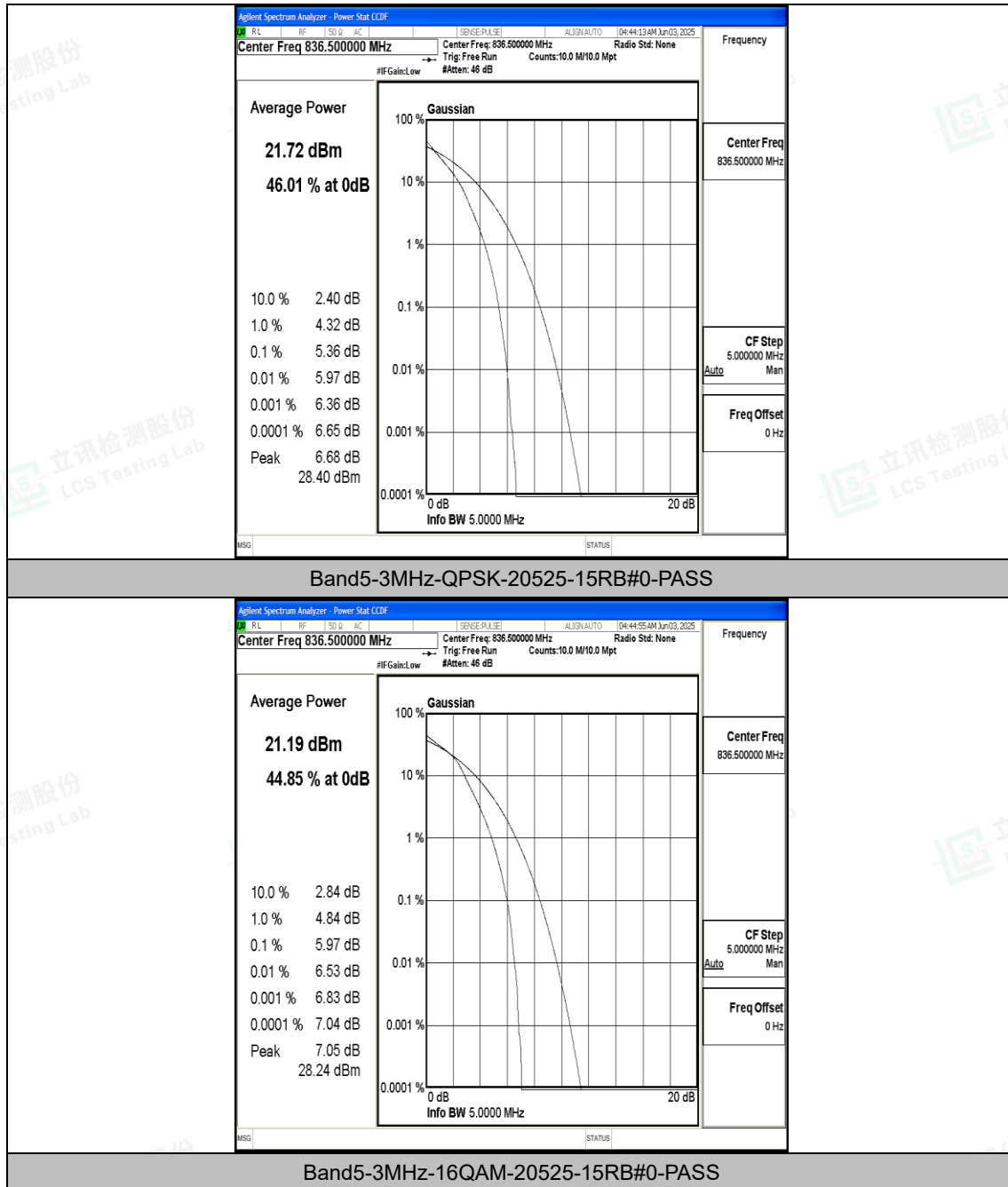


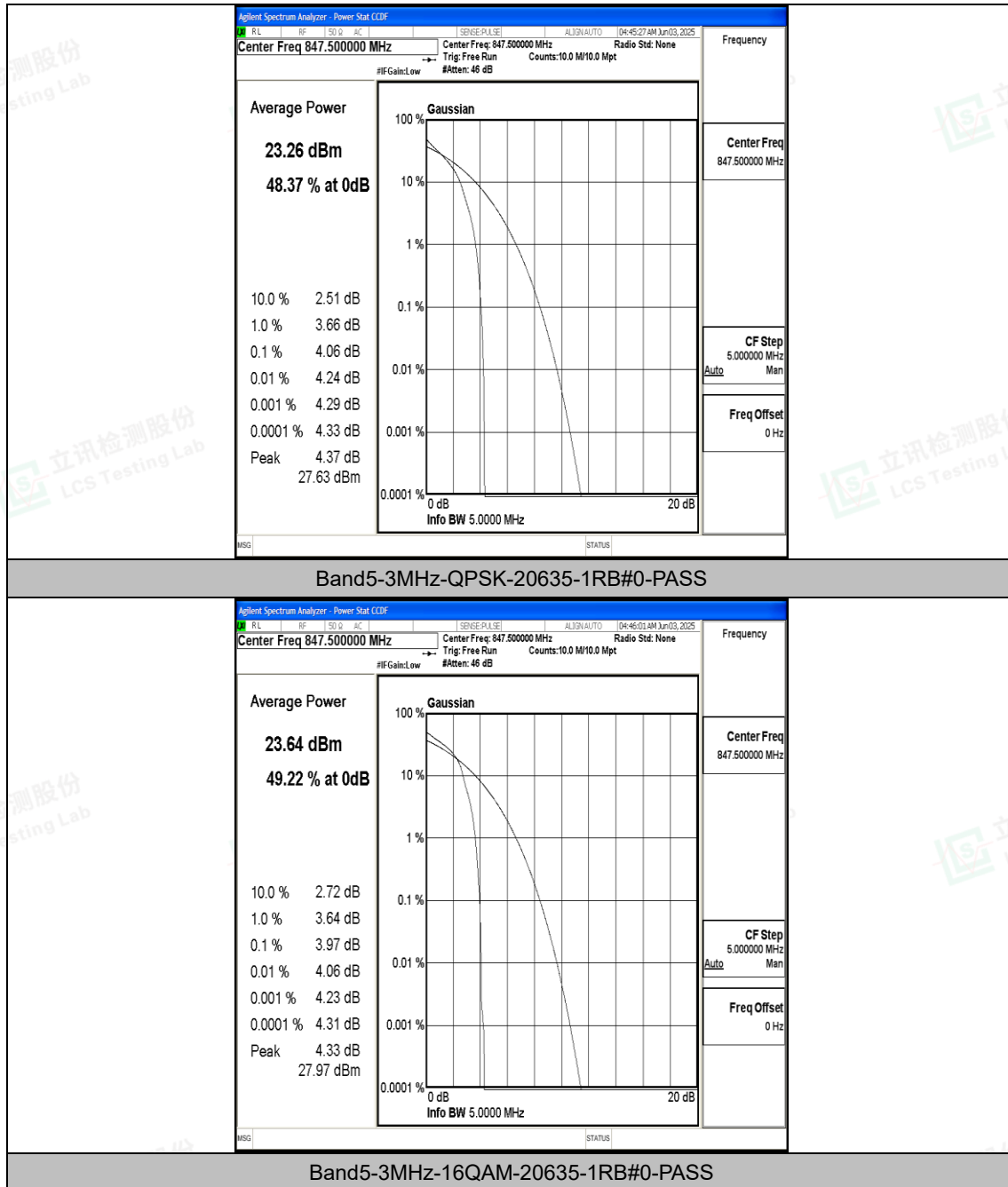


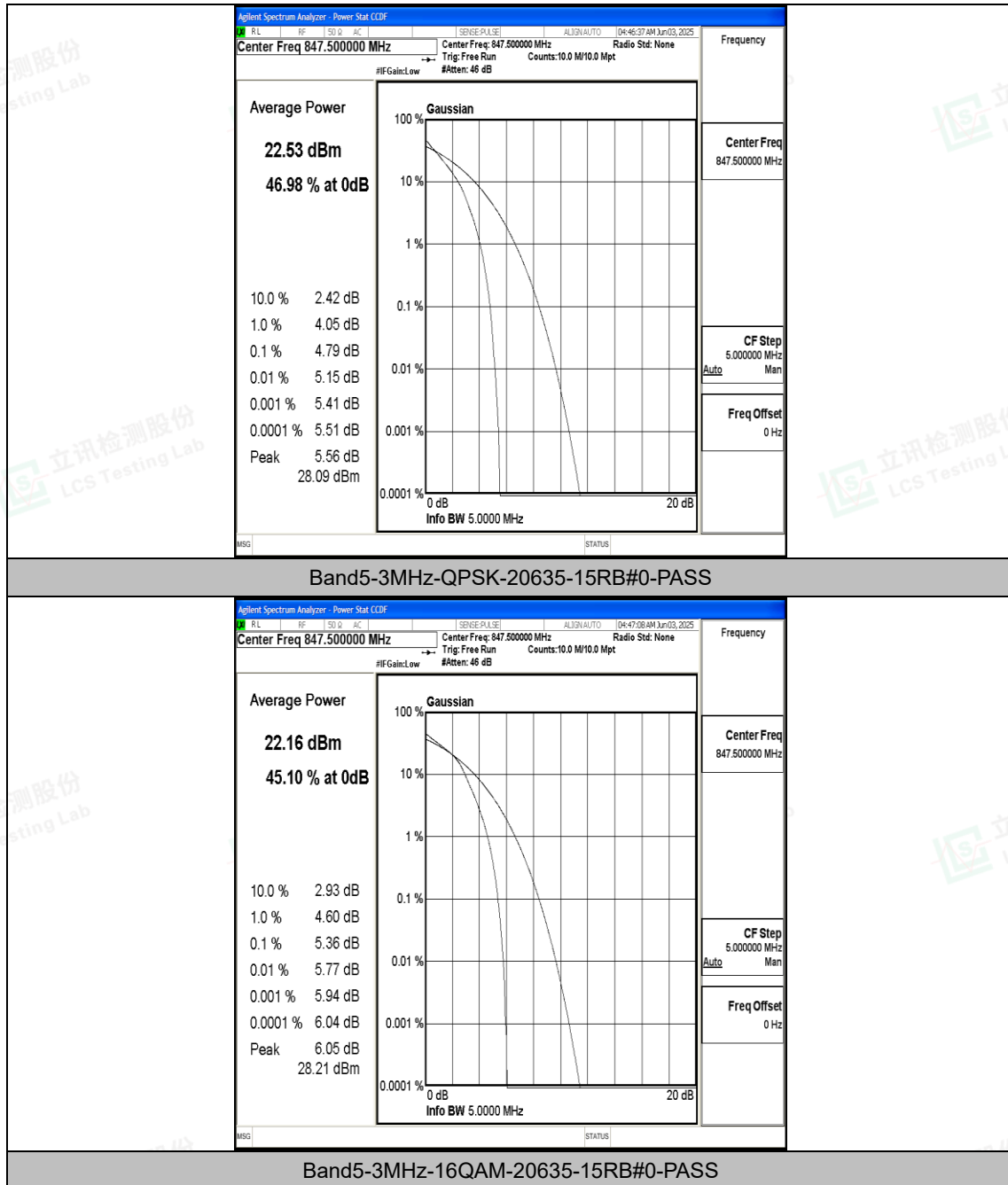


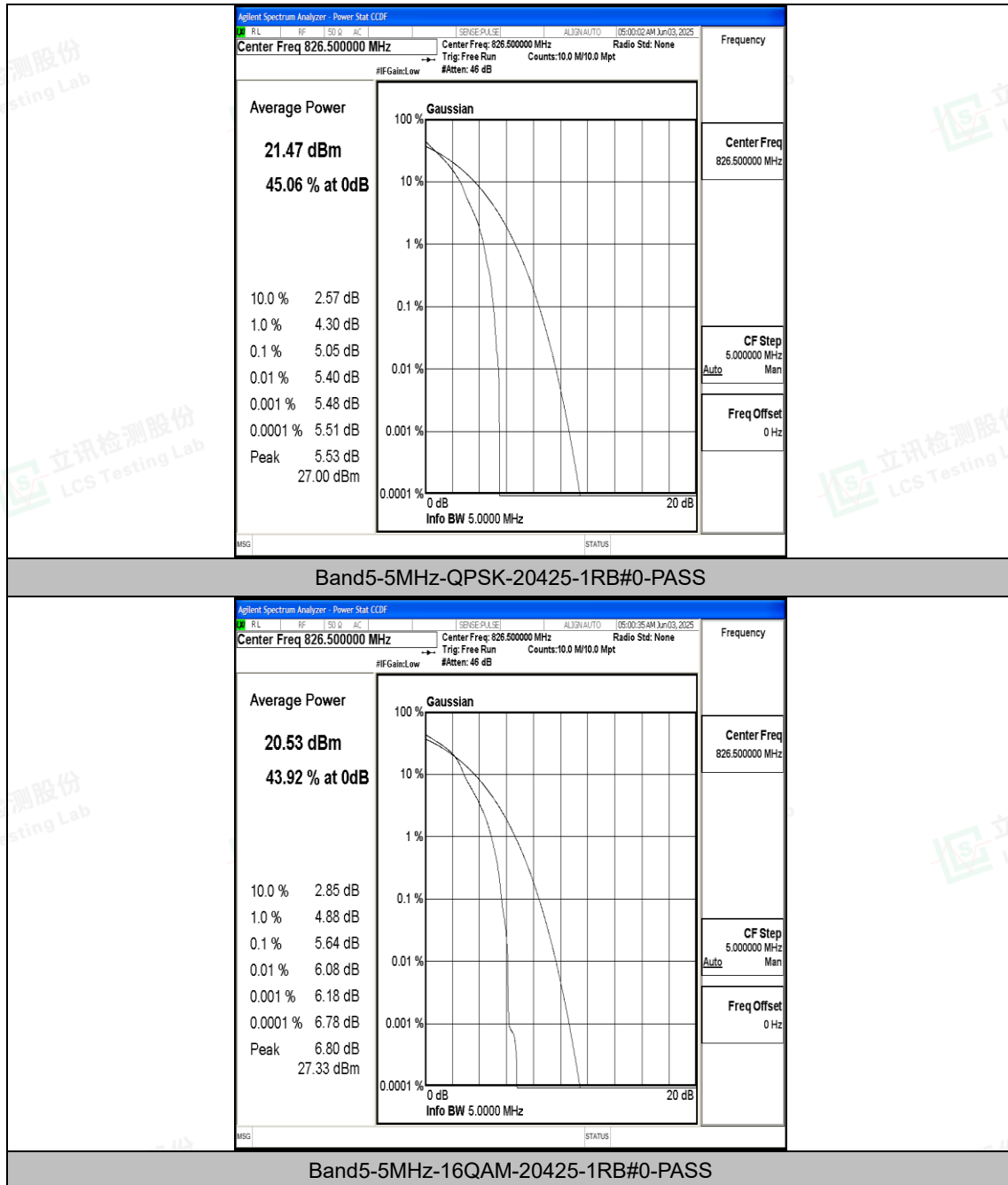


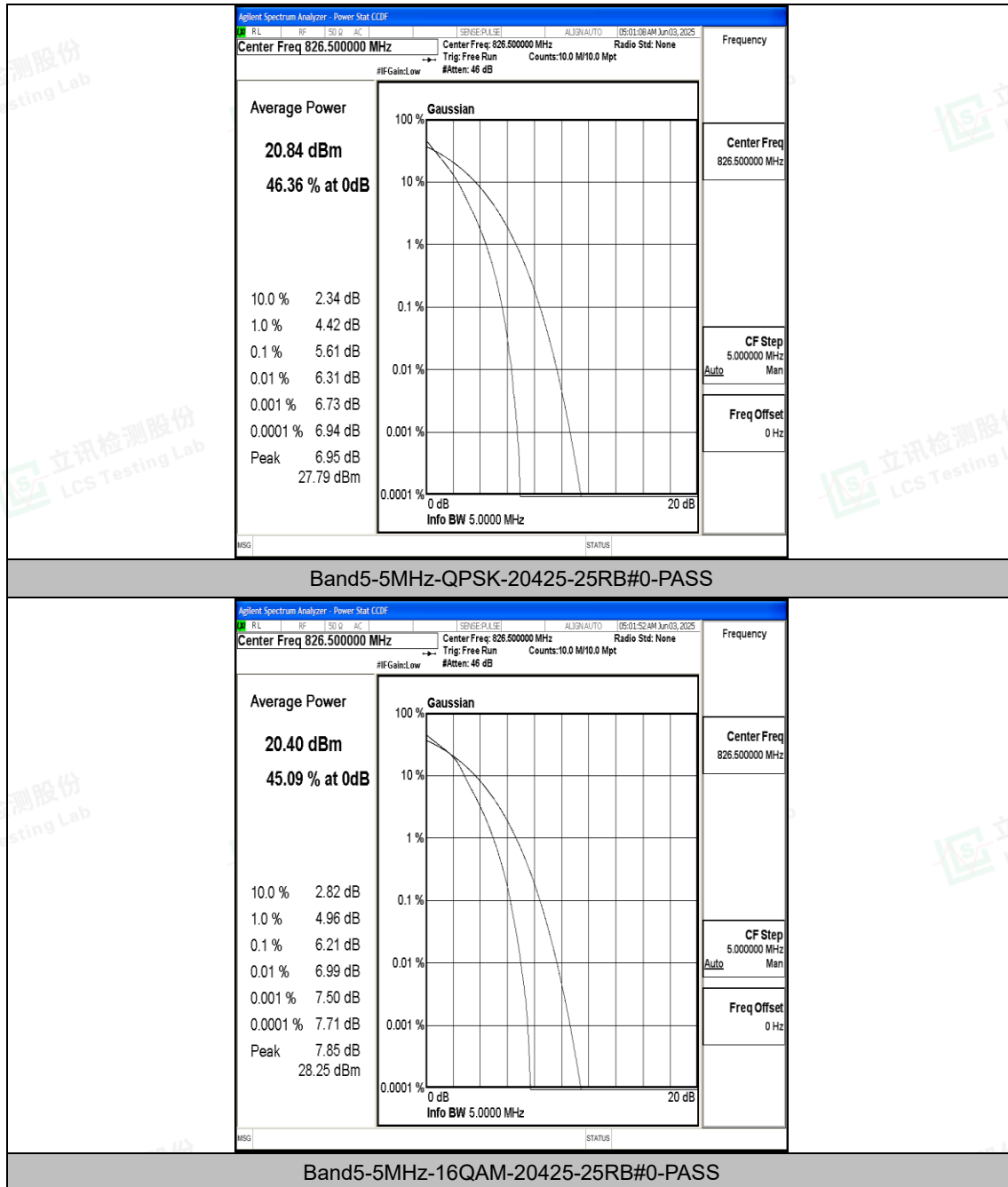


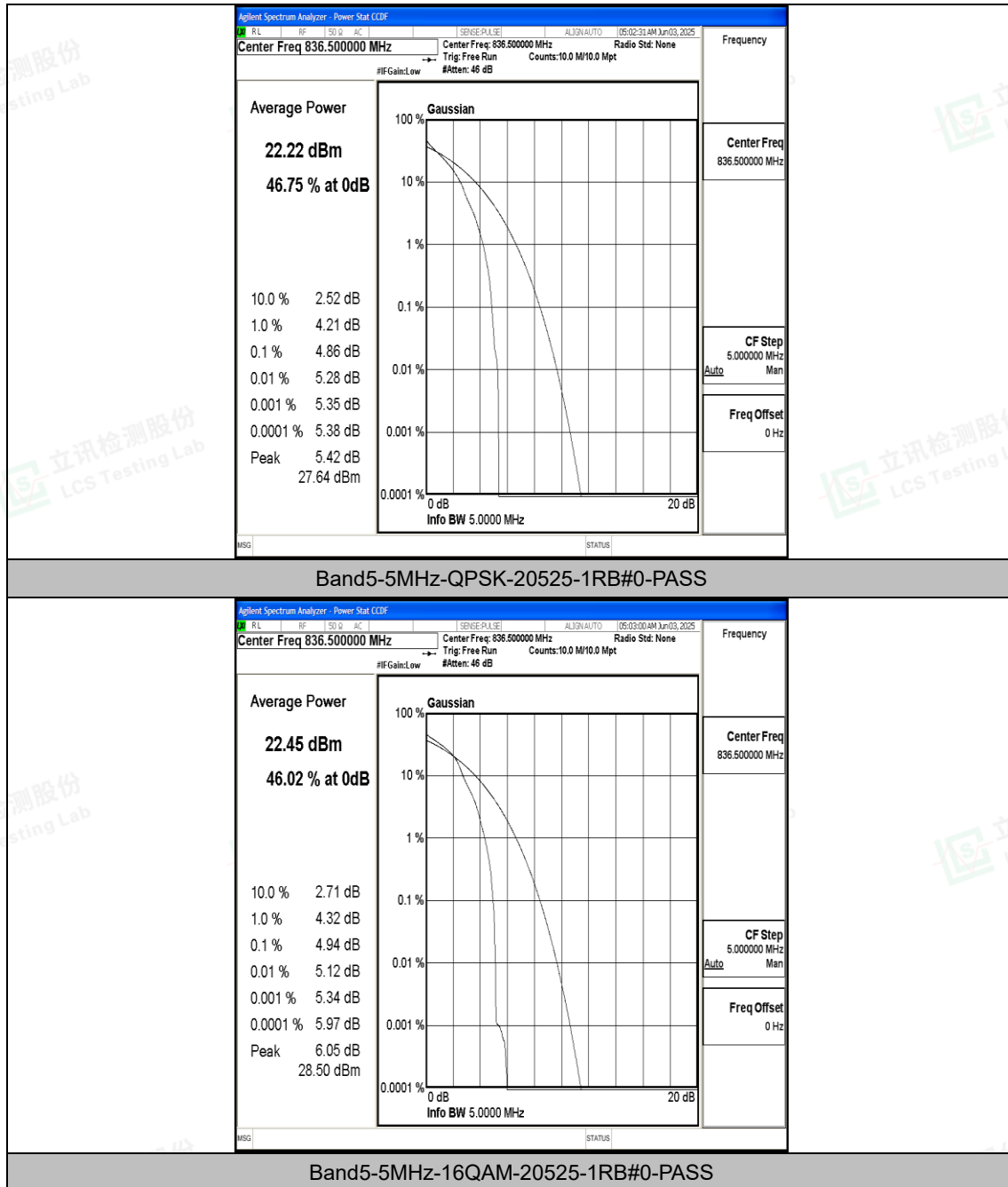


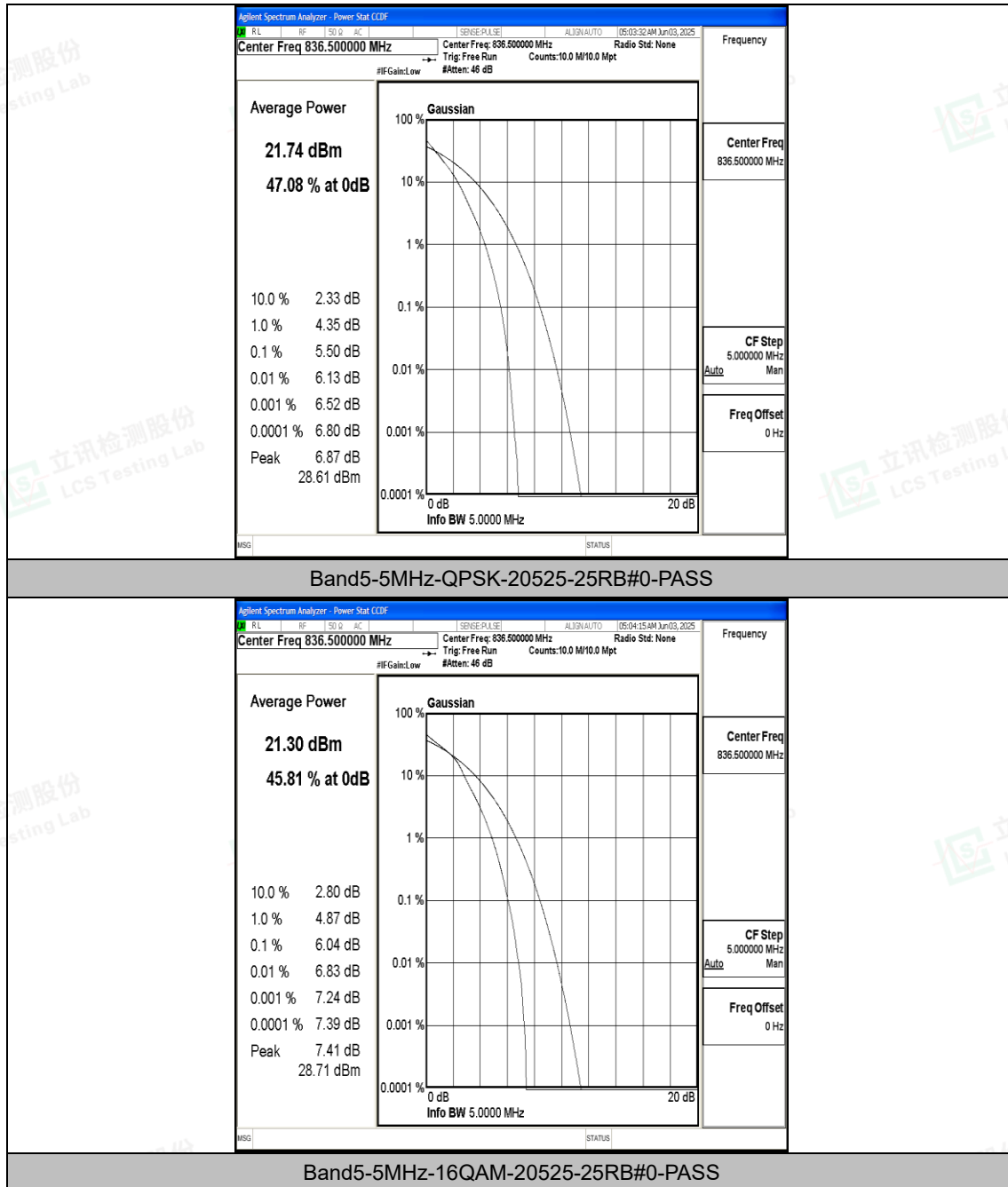


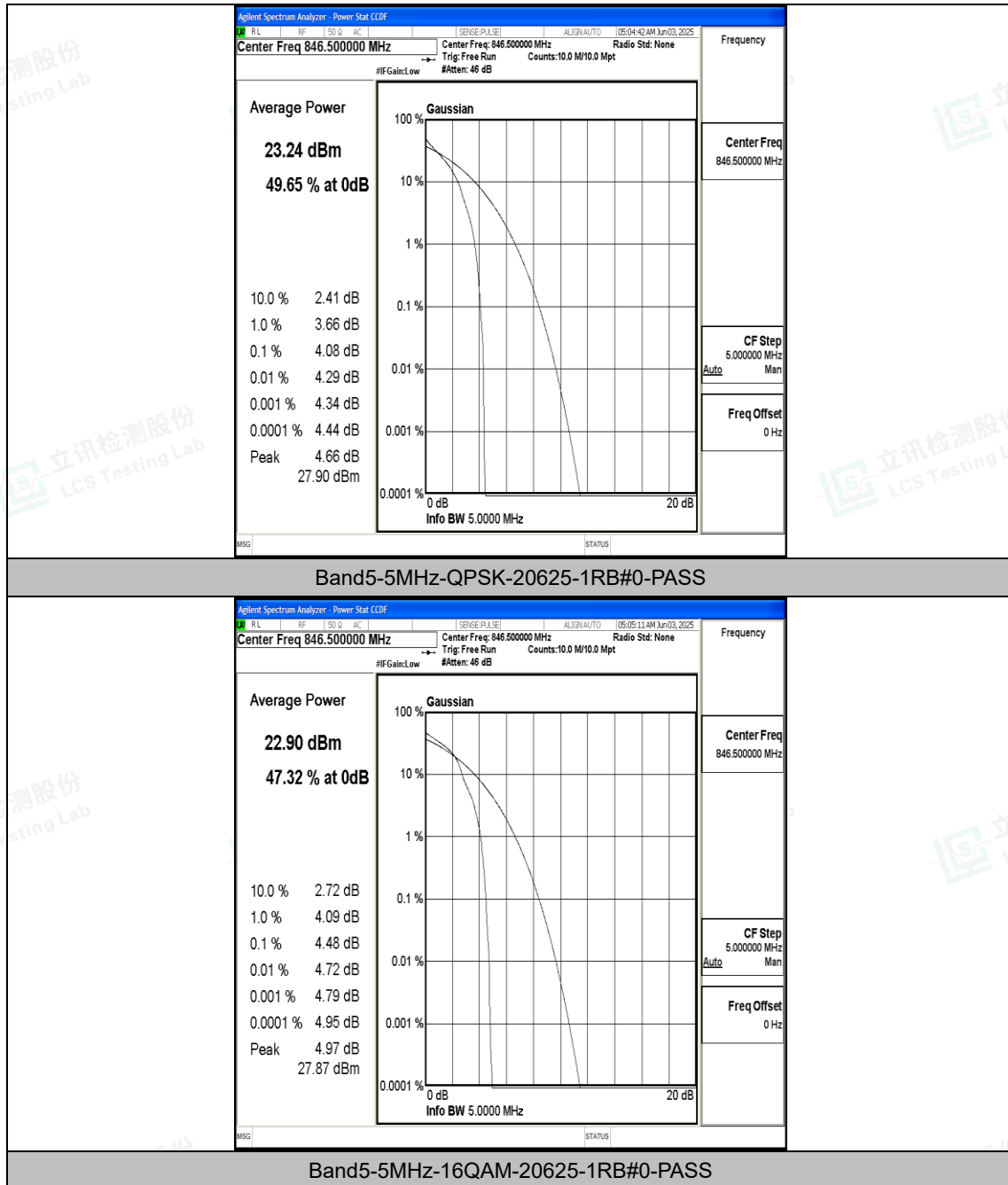


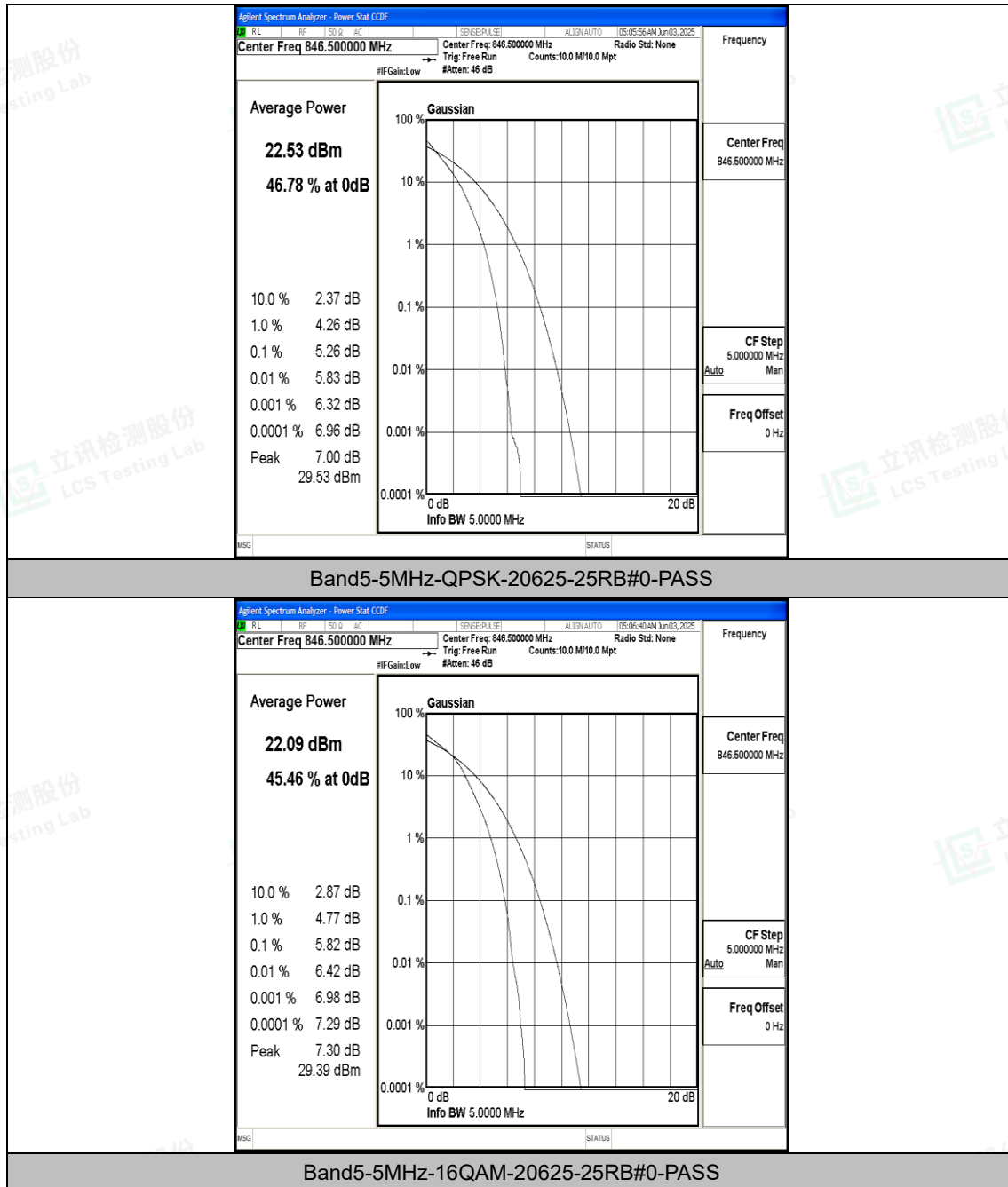


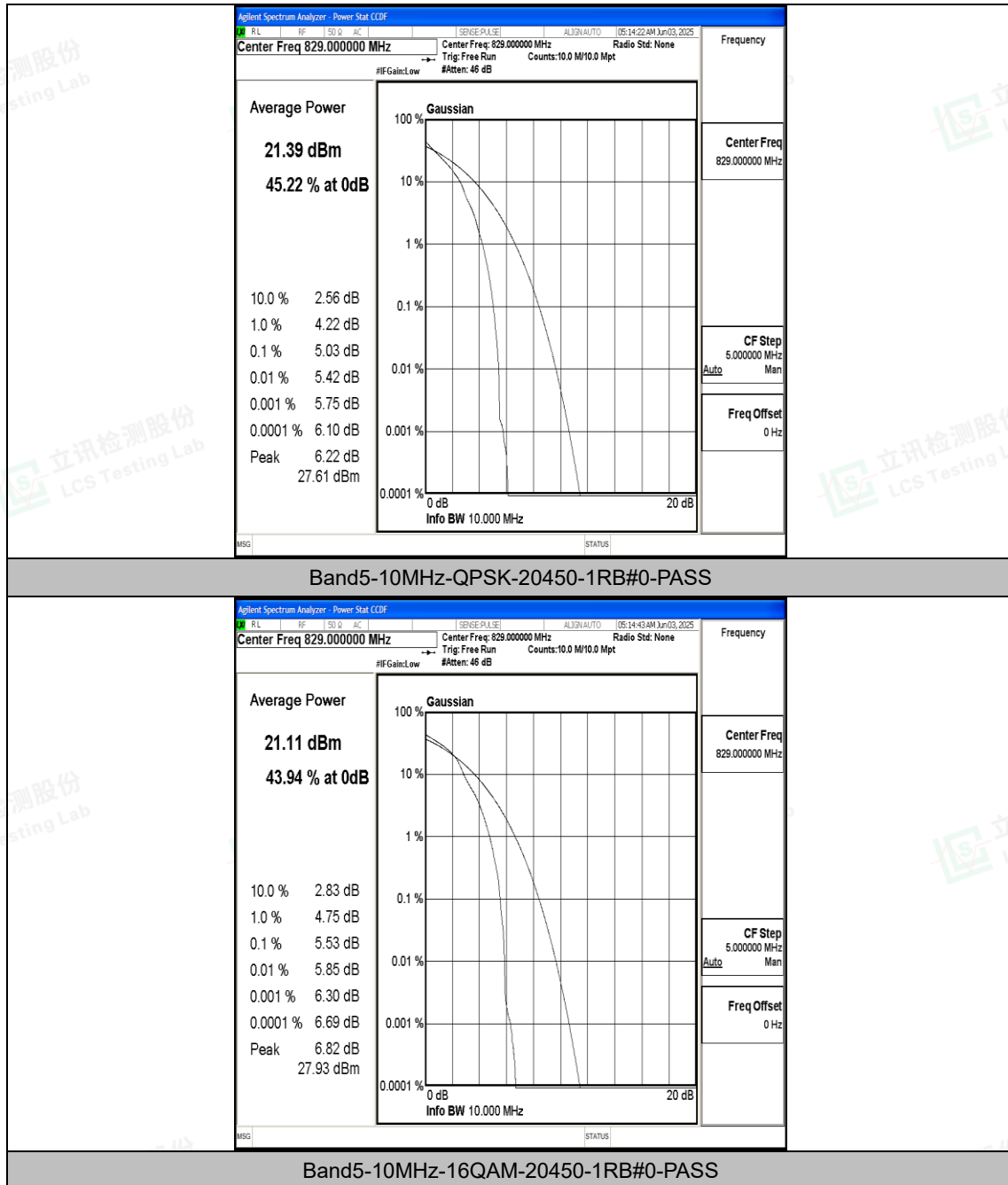


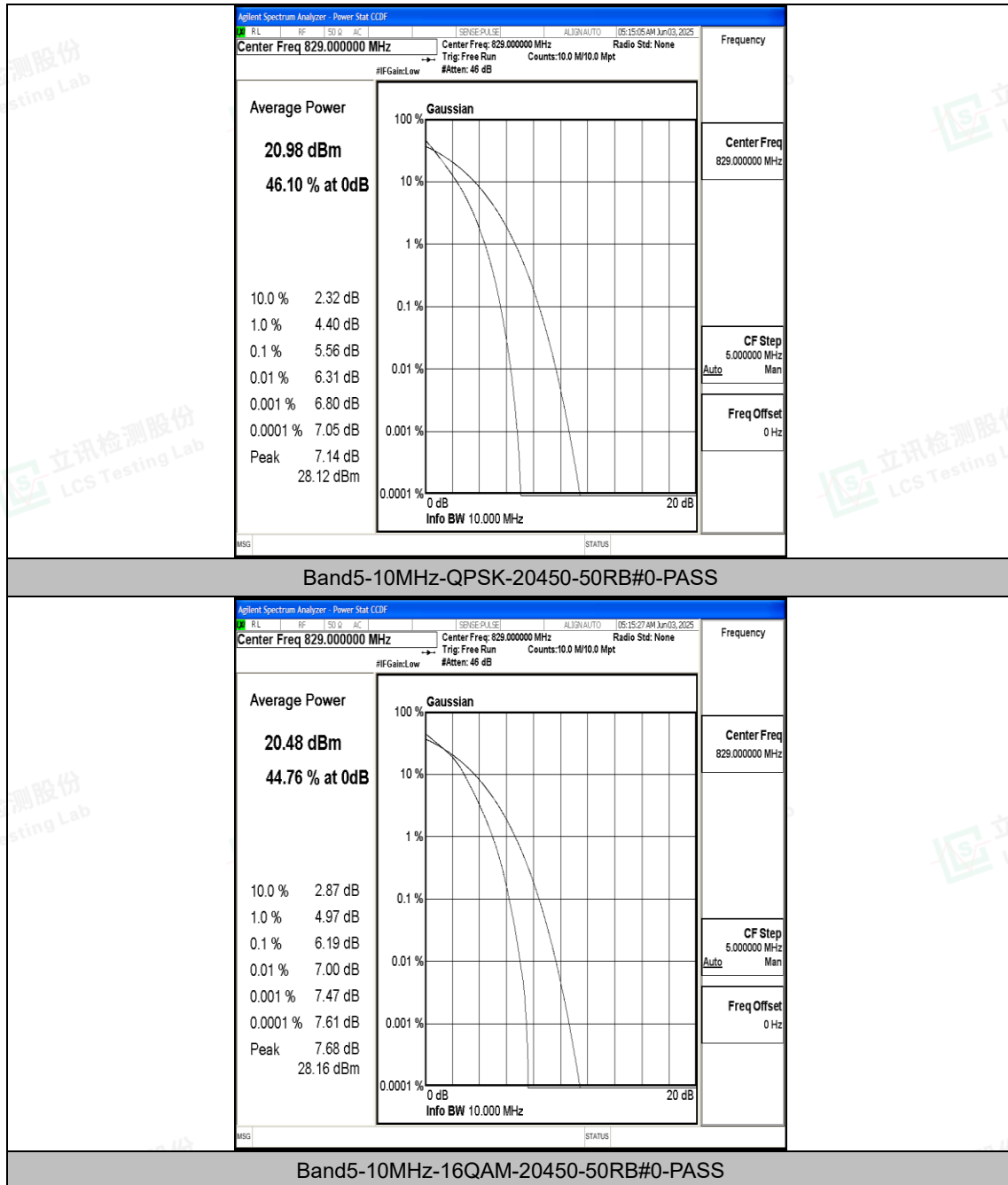


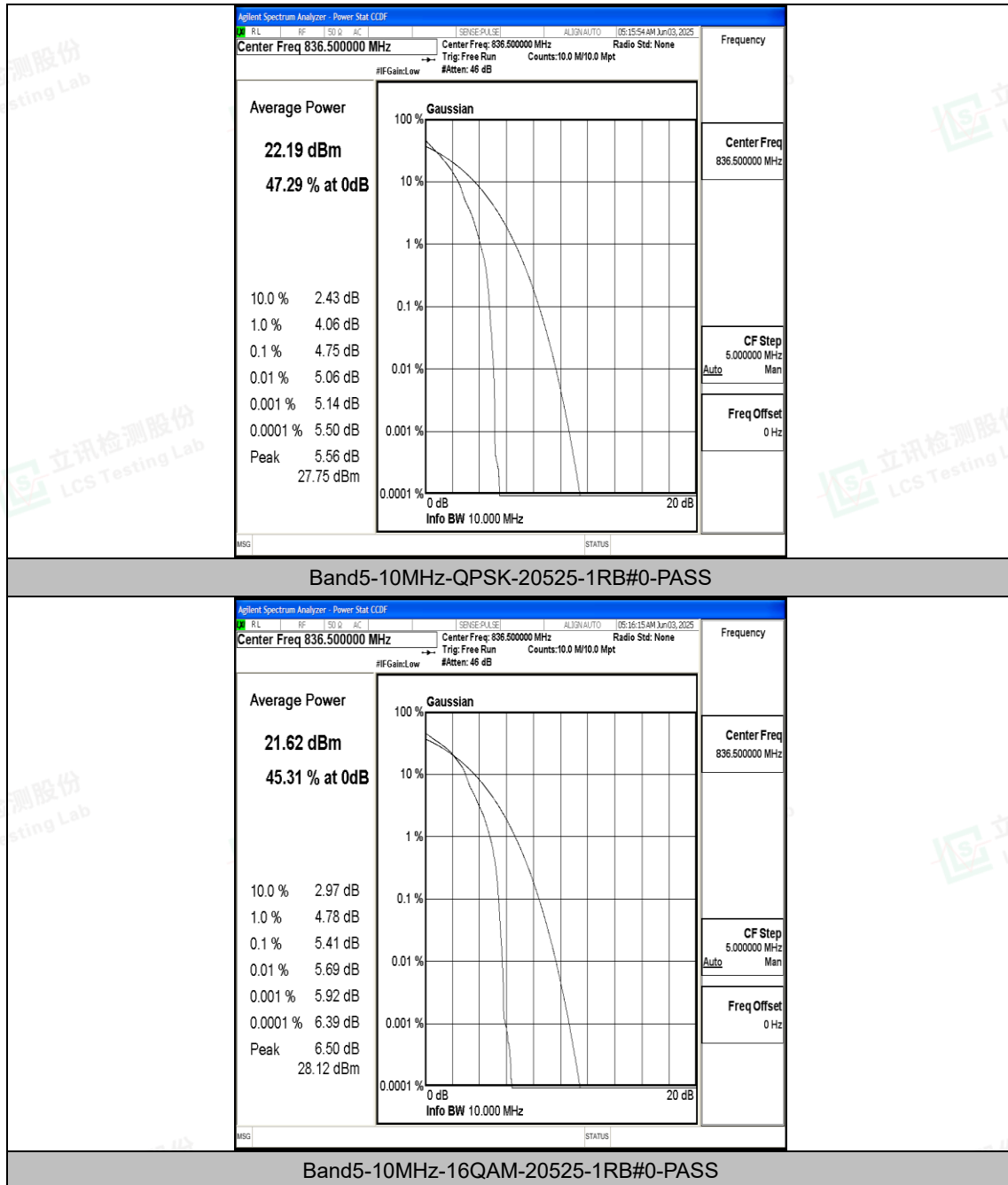


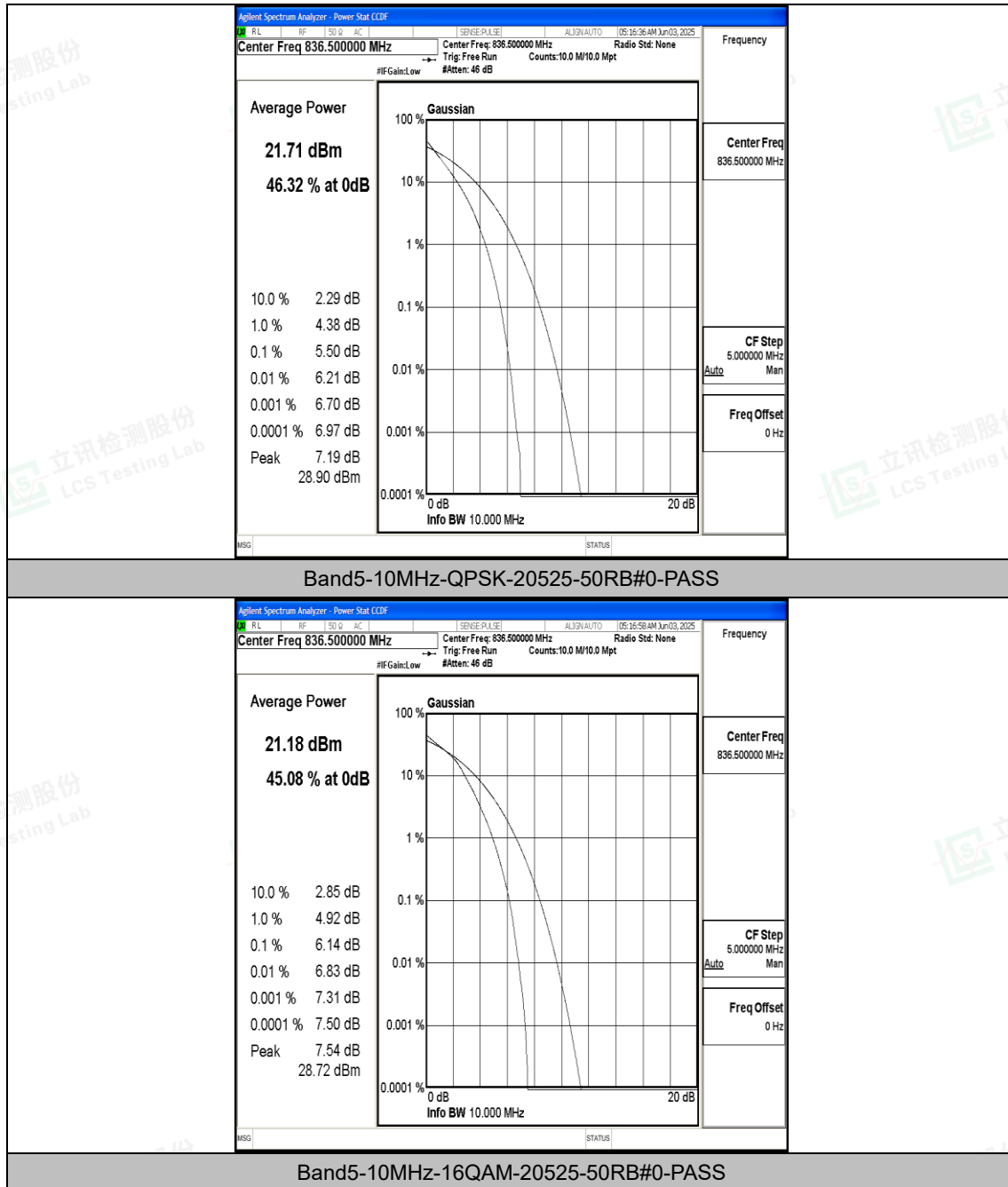


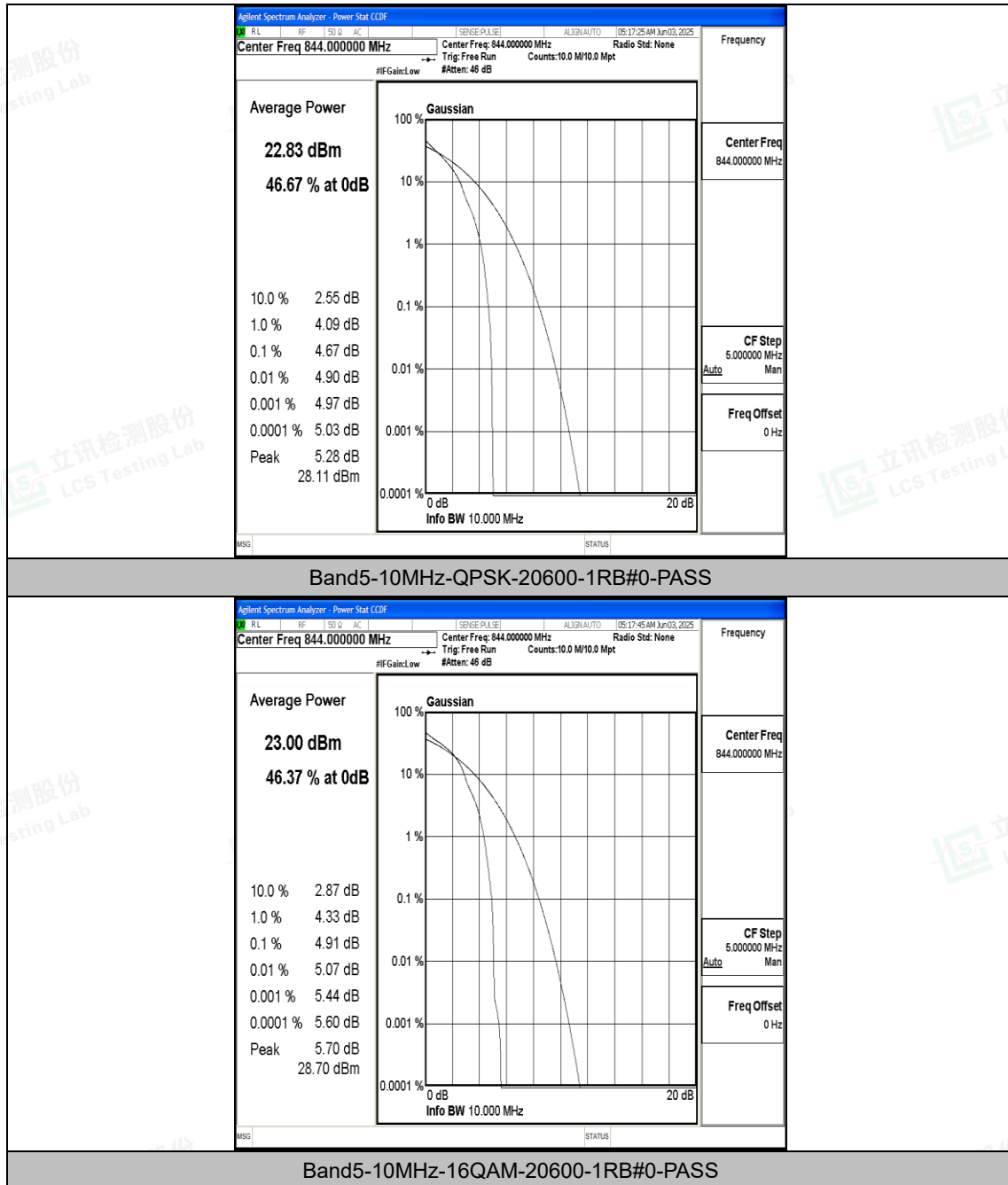


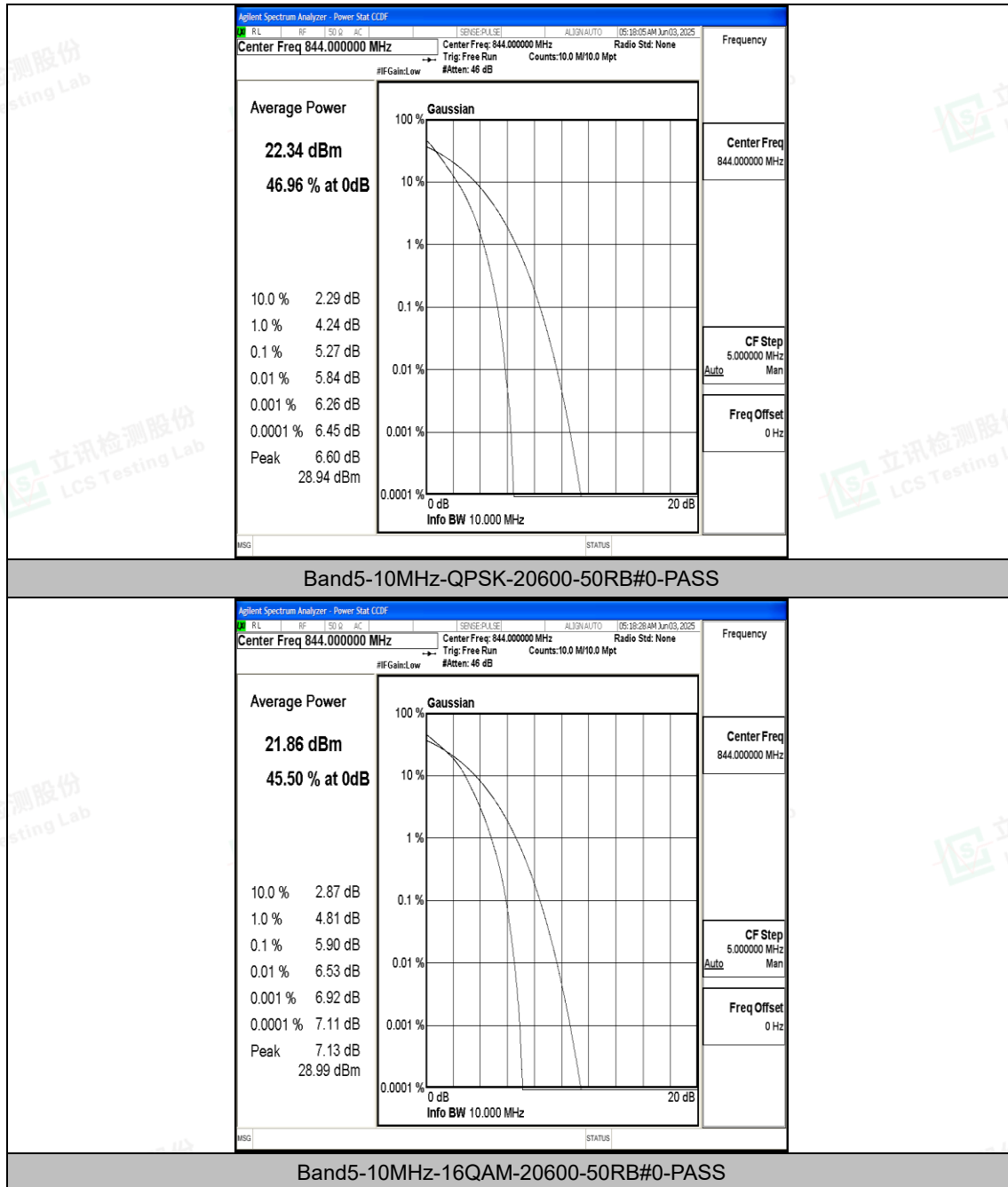














C.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0956	1.299	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1005	1.311	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0989	1.331	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1031	1.357	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0975	1.274	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0976	1.356	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7756	3.278	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7571	3.207	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7606	3.433	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7575	3.579	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7640	3.344	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7627	3.553	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5158	5.252	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5299	5.253	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5170	5.336	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5321	5.316	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5245	5.193	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5499	5.323	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9732	9.939	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9774	9.957	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0147	10.18	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0202	10.47	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9674	9.949	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9877	9.871	PASS





Test Graphs

