



Appendix F: Test Data for E-UTRA Band 5

Product Name: smartphone

Test Model: L68C

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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F.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	20.61	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	20.49	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	20.29	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	20.24	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	20.43	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	20.18	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	20.63	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	19.34	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	20.52	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	19.42	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	20.55	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	19.40	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	19.59	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	18.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	20.96	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	20.71	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	20.97	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	20.78	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	20.90	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	20.68	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.06	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	19.62	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.06	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	19.59	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.08	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	19.91	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	20.12	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	19.35	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.67	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	20.51	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.59	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	20.58	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.72	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	20.52	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.49	PASS



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Band5	1.4MHz	16QAM	20643	3RB#0	20.21	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.47	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.21	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.50	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.19	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.50	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	19.56	PASS
Band5	3MHz	QPSK	20415	1RB#0	19.42	PASS
Band5	3MHz	16QAM	20415	1RB#0	19.75	PASS
Band5	3MHz	QPSK	20415	1RB#8	19.44	PASS
Band5	3MHz	16QAM	20415	1RB#8	19.73	PASS
Band5	3MHz	QPSK	20415	1RB#14	19.46	PASS
Band5	3MHz	16QAM	20415	1RB#14	19.81	PASS
Band5	3MHz	QPSK	20415	8RB#0	20.48	PASS
Band5	3MHz	16QAM	20415	8RB#0	19.63	PASS
Band5	3MHz	QPSK	20415	8RB#4	20.59	PASS
Band5	3MHz	16QAM	20415	8RB#4	19.66	PASS
Band5	3MHz	QPSK	20415	8RB#7	20.57	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.66	PASS
Band5	3MHz	QPSK	20415	15RB#0	20.67	PASS
Band5	3MHz	16QAM	20415	15RB#0	19.55	PASS
Band5	3MHz	QPSK	20525	1RB#0	19.98	PASS
Band5	3MHz	16QAM	20525	1RB#0	19.81	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.07	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.85	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.11	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.92	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.87	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.15	PASS
Band5	3MHz	QPSK	20525	8RB#4	20.90	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.17	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.13	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.33	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.13	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.01	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.34	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.06	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.60	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.36	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.73	PASS



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Band5	3MHz	16QAM	20635	1RB#14	21.51	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.30	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.51	PASS
Band5	3MHz	QPSK	20635	8RB#4	19.34	PASS
Band5	3MHz	16QAM	20635	8RB#4	19.43	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.54	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.62	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.40	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.53	PASS
Band5	5MHz	QPSK	20425	1RB#0	19.63	PASS
Band5	5MHz	16QAM	20425	1RB#0	20.36	PASS
Band5	5MHz	QPSK	20425	1RB#12	19.22	PASS
Band5	5MHz	16QAM	20425	1RB#12	20.34	PASS
Band5	5MHz	QPSK	20425	1RB#24	19.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	20.24	PASS
Band5	5MHz	QPSK	20425	12RB#0	20.27	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.59	PASS
Band5	5MHz	QPSK	20425	12RB#6	20.94	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.83	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.01	PASS
Band5	5MHz	16QAM	20425	12RB#13	19.95	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.91	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.07	PASS
Band5	5MHz	QPSK	20525	1RB#0	20.34	PASS
Band5	5MHz	16QAM	20525	1RB#0	20.07	PASS
Band5	5MHz	QPSK	20525	1RB#12	20.44	PASS
Band5	5MHz	16QAM	20525	1RB#12	20.27	PASS
Band5	5MHz	QPSK	20525	1RB#24	20.70	PASS
Band5	5MHz	16QAM	20525	1RB#24	20.50	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.49	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.69	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.64	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.85	PASS
Band5	5MHz	QPSK	20525	12RB#13	20.96	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.00	PASS
Band5	5MHz	QPSK	20525	25RB#0	19.80	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.79	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.17	PASS
Band5	5MHz	16QAM	20625	1RB#0	20.40	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.36	PASS



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Band5	5MHz	16QAM	20625	1RB#12	20.63	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.44	PASS
Band5	5MHz	16QAM	20625	1RB#24	20.77	PASS
Band5	5MHz	QPSK	20625	12RB#0	20.25	PASS
Band5	5MHz	16QAM	20625	12RB#0	19.31	PASS
Band5	5MHz	QPSK	20625	12RB#6	20.19	PASS
Band5	5MHz	16QAM	20625	12RB#6	19.21	PASS
Band5	5MHz	QPSK	20625	12RB#13	20.43	PASS
Band5	5MHz	16QAM	20625	12RB#13	19.39	PASS
Band5	5MHz	QPSK	20625	25RB#0	20.38	PASS
Band5	5MHz	16QAM	20625	25RB#0	19.50	PASS
Band5	10MHz	QPSK	20450	1RB#0	20.21	PASS
Band5	10MHz	16QAM	20450	1RB#0	20.43	PASS
Band5	10MHz	QPSK	20450	1RB#24	20.25	PASS
Band5	10MHz	16QAM	20450	1RB#24	20.41	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.42	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.69	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.64	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.85	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.67	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.06	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.84	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.56	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.68	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.89	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.92	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.49	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.86	PASS
Band5	10MHz	16QAM	20525	1RB#24	19.64	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.88	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.96	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.12	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.24	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.93	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.74	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.51	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.67	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.78	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.94	PASS



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Band5	10MHz	16QAM	20600	1RB#0	20.85	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.96	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.56	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.85	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.44	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.27	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.70	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.50	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.84	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.68	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.62	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.85	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.96	PASS





F.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	4.13	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.41	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.17	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.96	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3.97	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.95	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.02	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.80	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.77	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3.87	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.84	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.62	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	3.93	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	4.62	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.09	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	5.98	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.12	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.09	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.48	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.30	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.69	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.01	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.51	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.45	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	10.64	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	10.06	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	8.40	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	8.40	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	8.40	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	8.41	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	8.40	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	8.40	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	8.40	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	8.41	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	8.40	13	PASS



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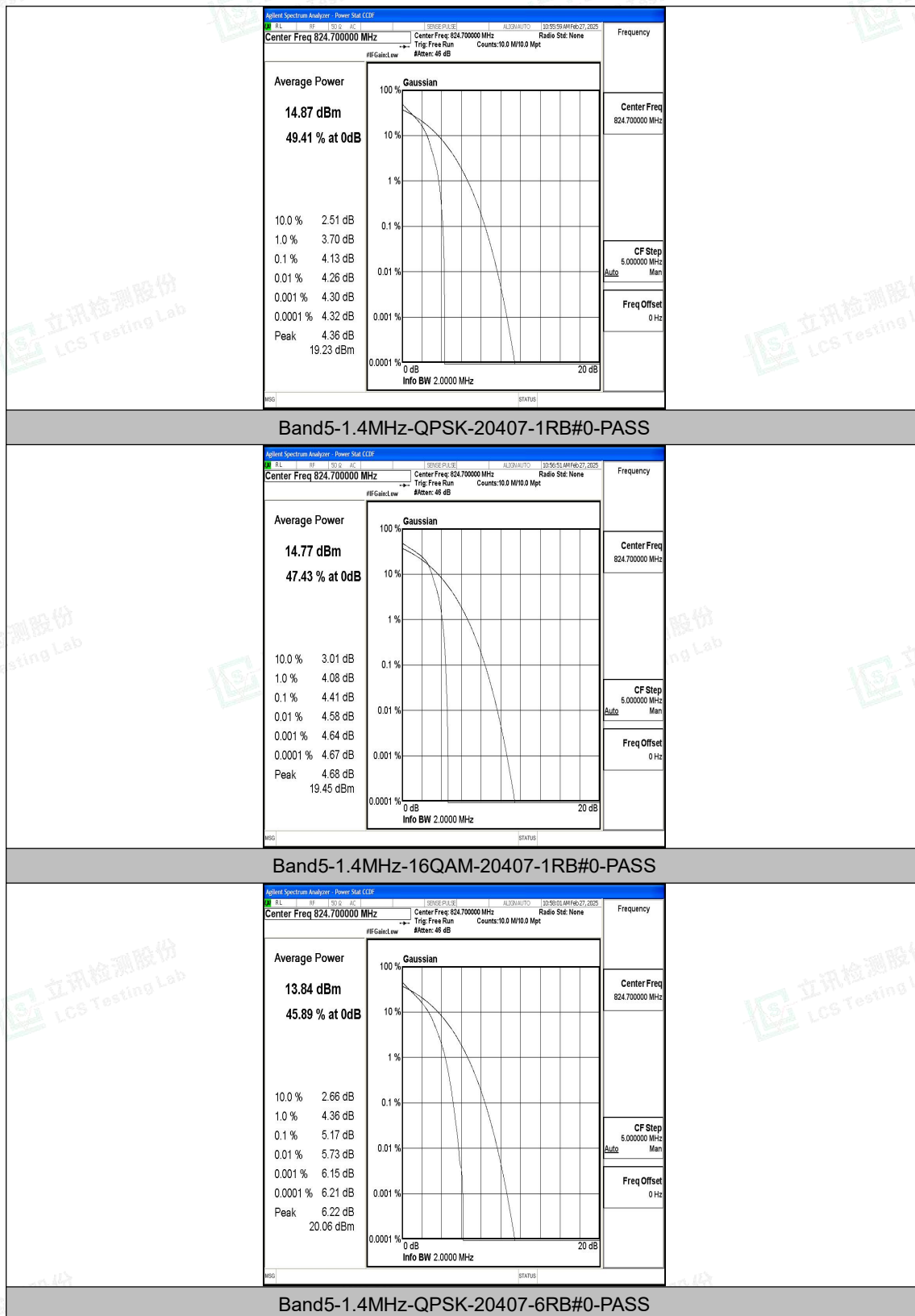


Band5	5MHz	16QAM	20625	25RB#0	8.40	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.05	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	4.53	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.48	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.49	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.48	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.43	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.21	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.08	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	4.25	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.34	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.13	13	PASS





Test Graphs

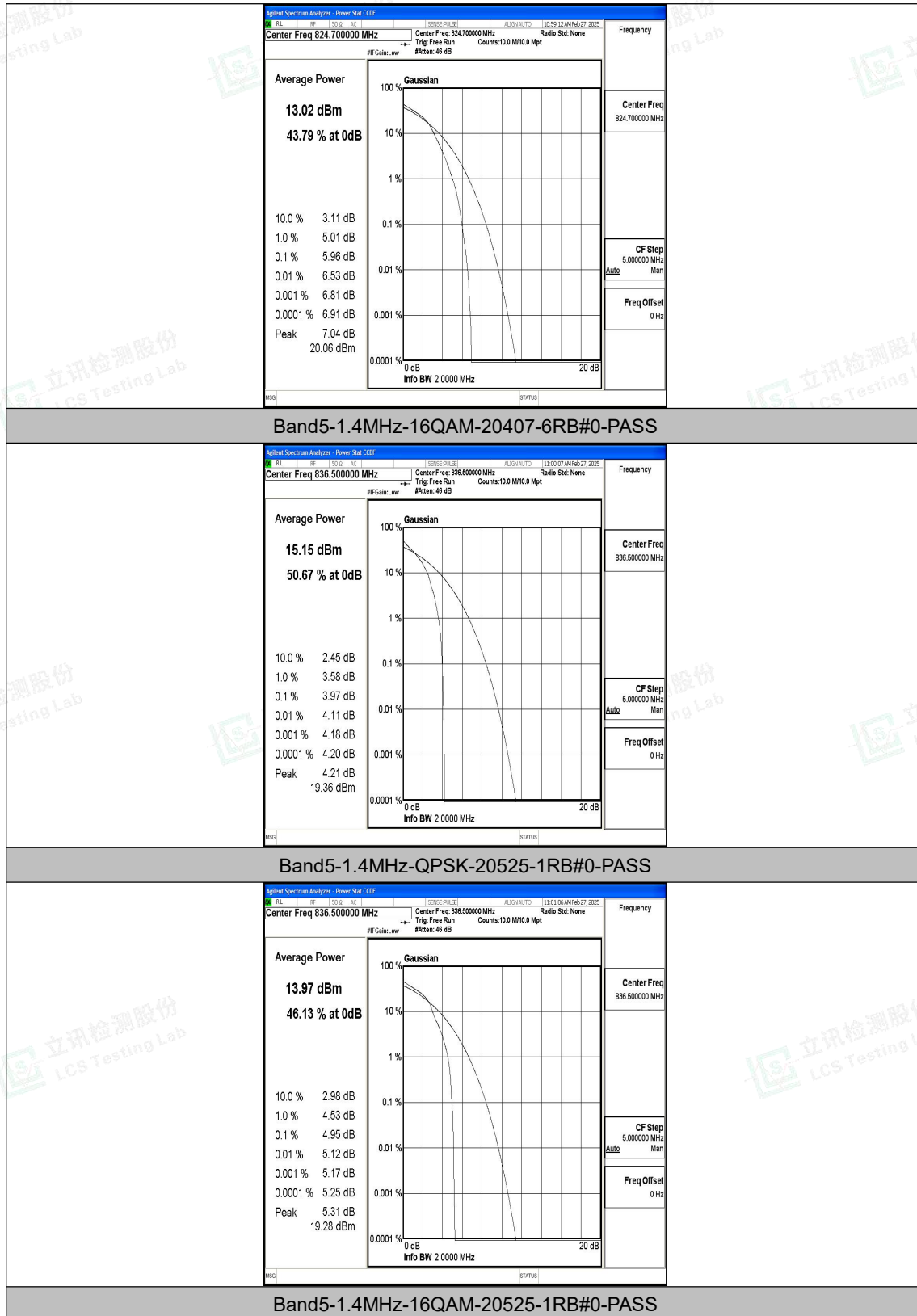


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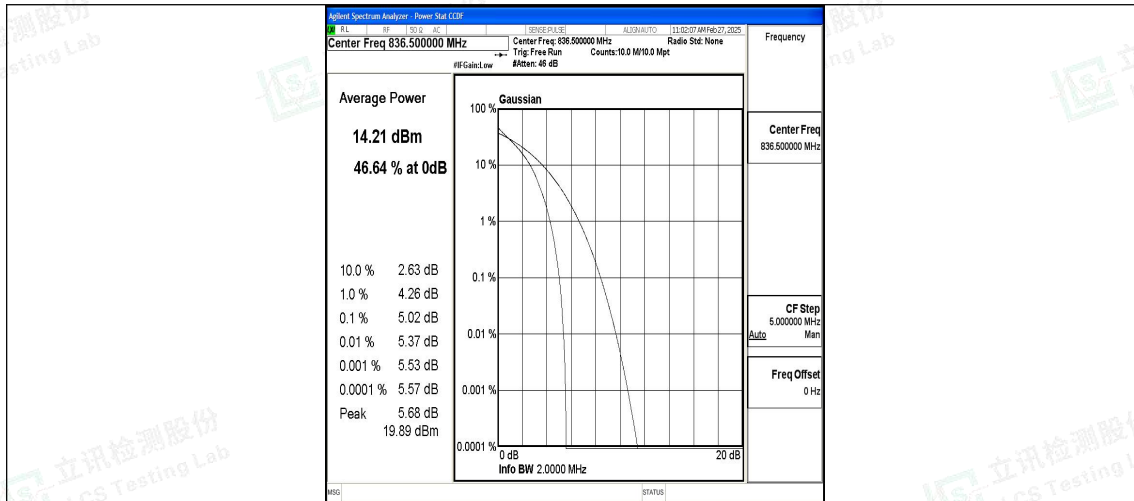


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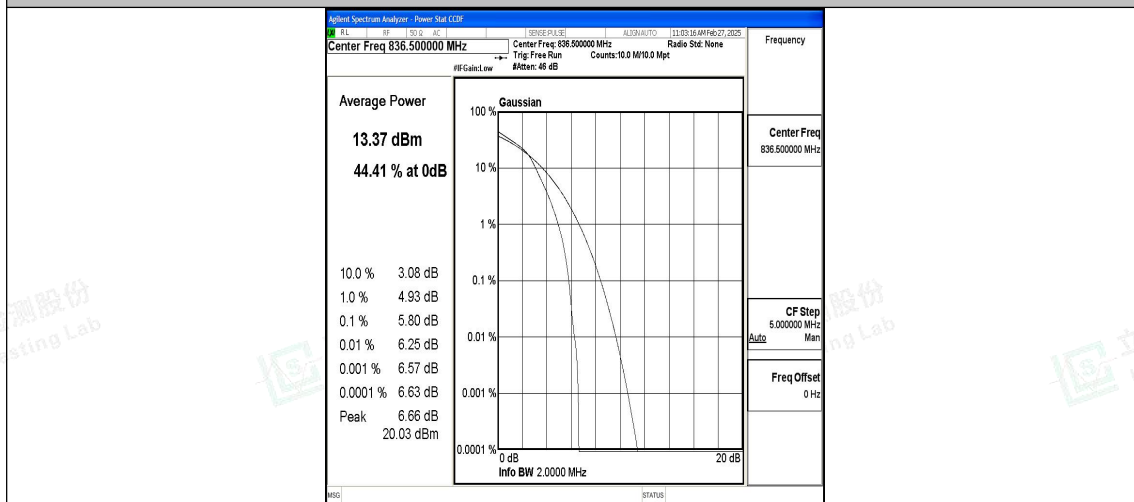
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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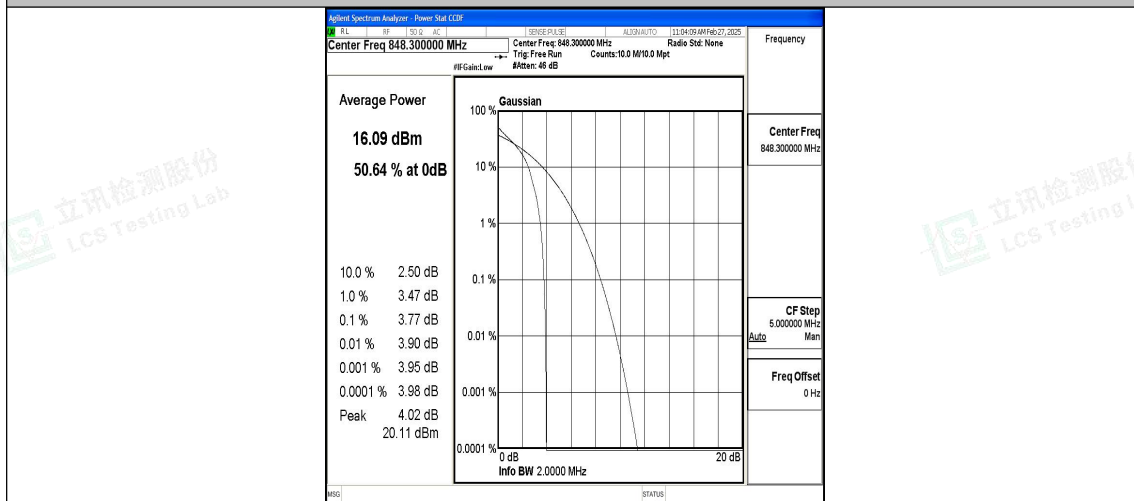
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Band5-1.4MHz-QPSK-20525-6RB#0-PASS



Band5-1.4MHz-16QAM-20525-6RB#0-PASS



Band5-1.4MHz-QPSK-20643-1RB#0-PASS

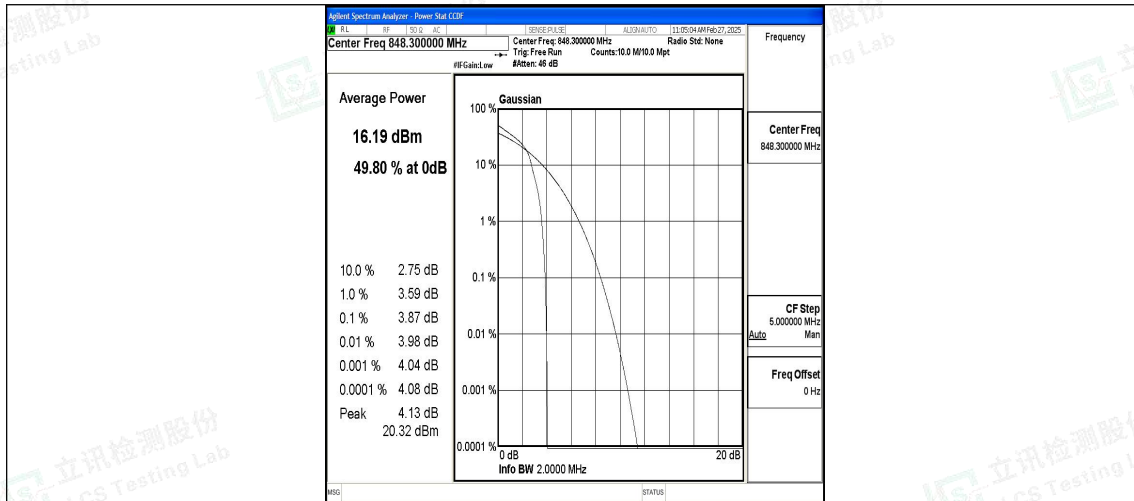


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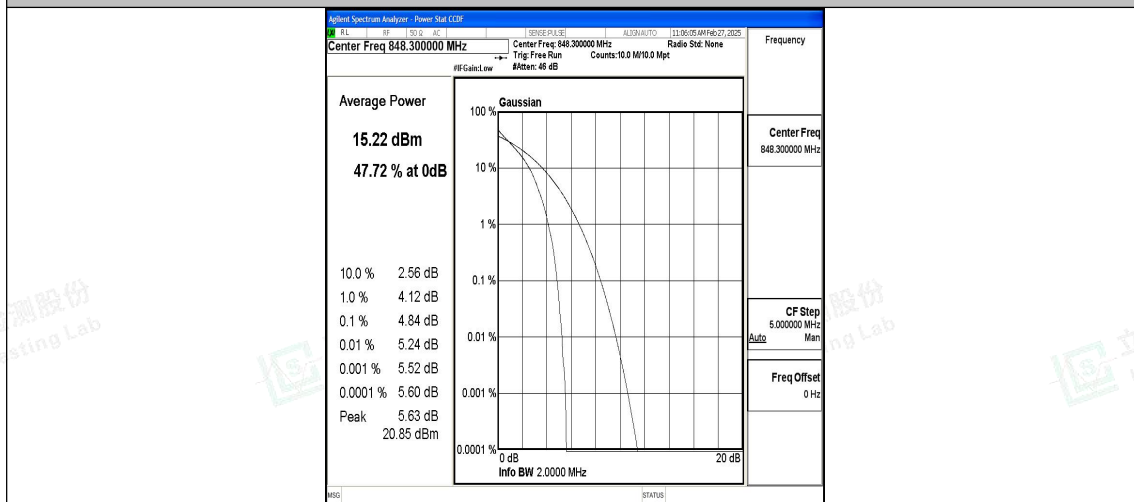
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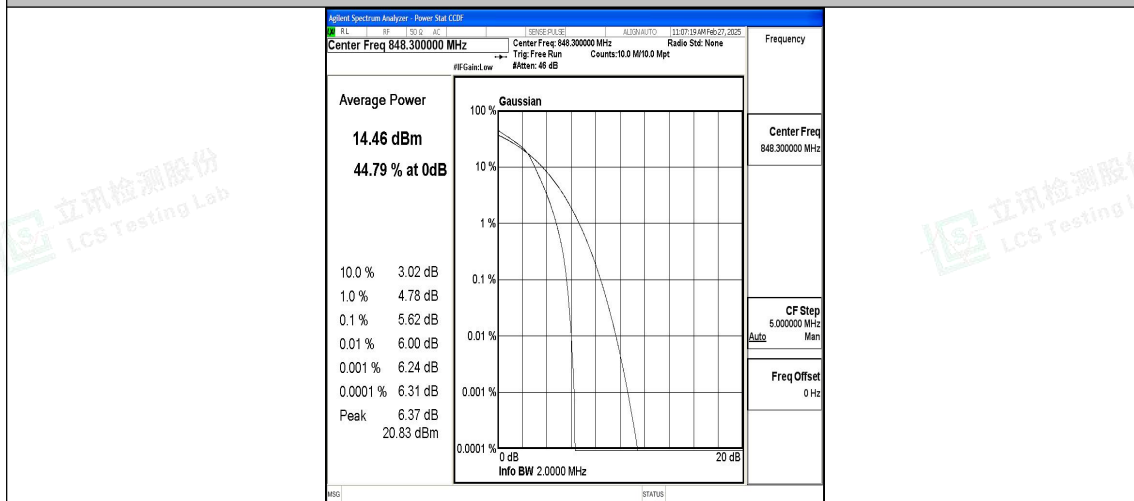
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Band5-1.4MHz-16QAM-20643-1RB#0-PASS



Band5-1.4MHz-QPSK-20643-6RB#0-PASS



Band5-1.4MHz-16QAM-20643-6RB#0-PASS

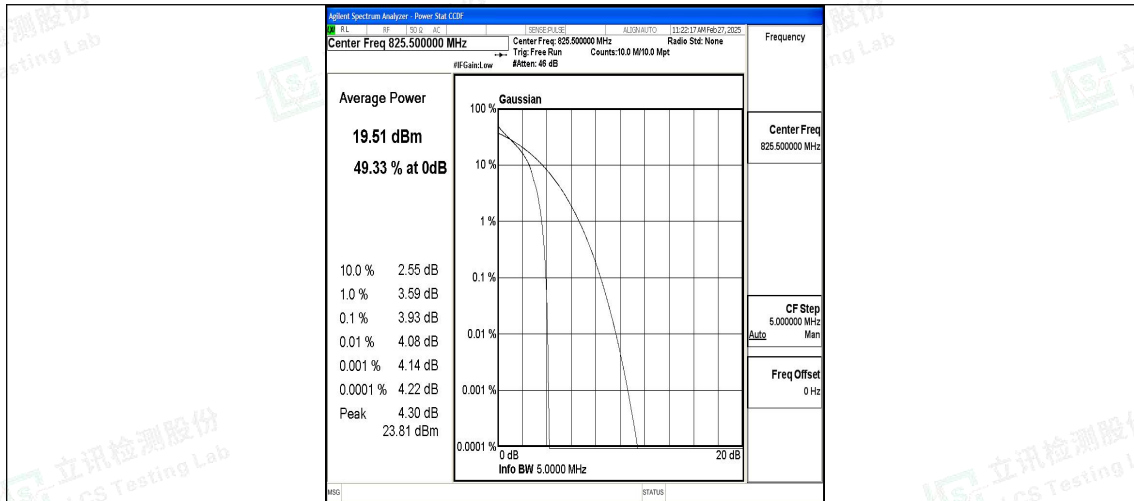


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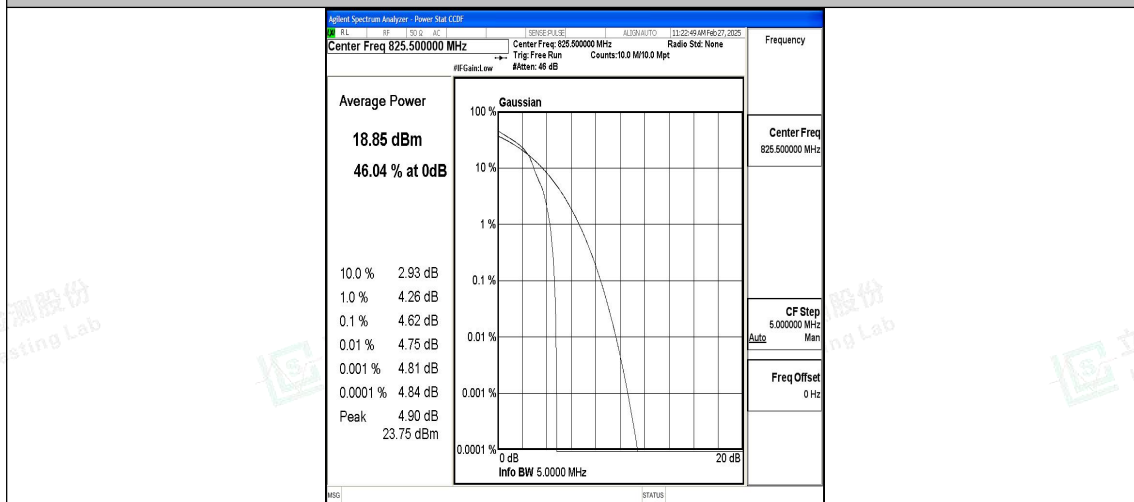
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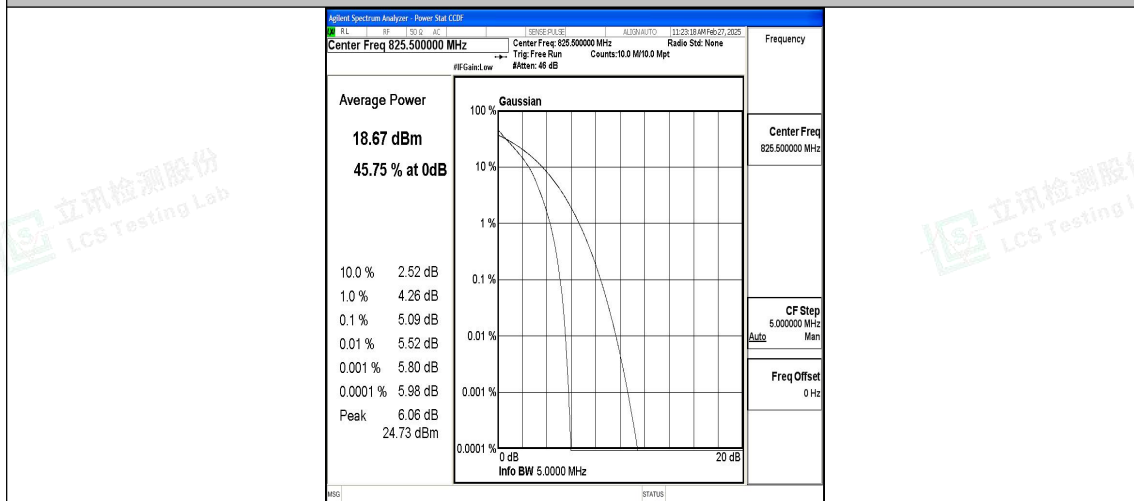
Scan code to check authenticity



Band5-3MHz-QPSK-20415-1RB#0-PASS



Band5-3MHz-16QAM-20415-1RB#0-PASS



Band5-3MHz-QPSK-20415-15RB#0-PASS

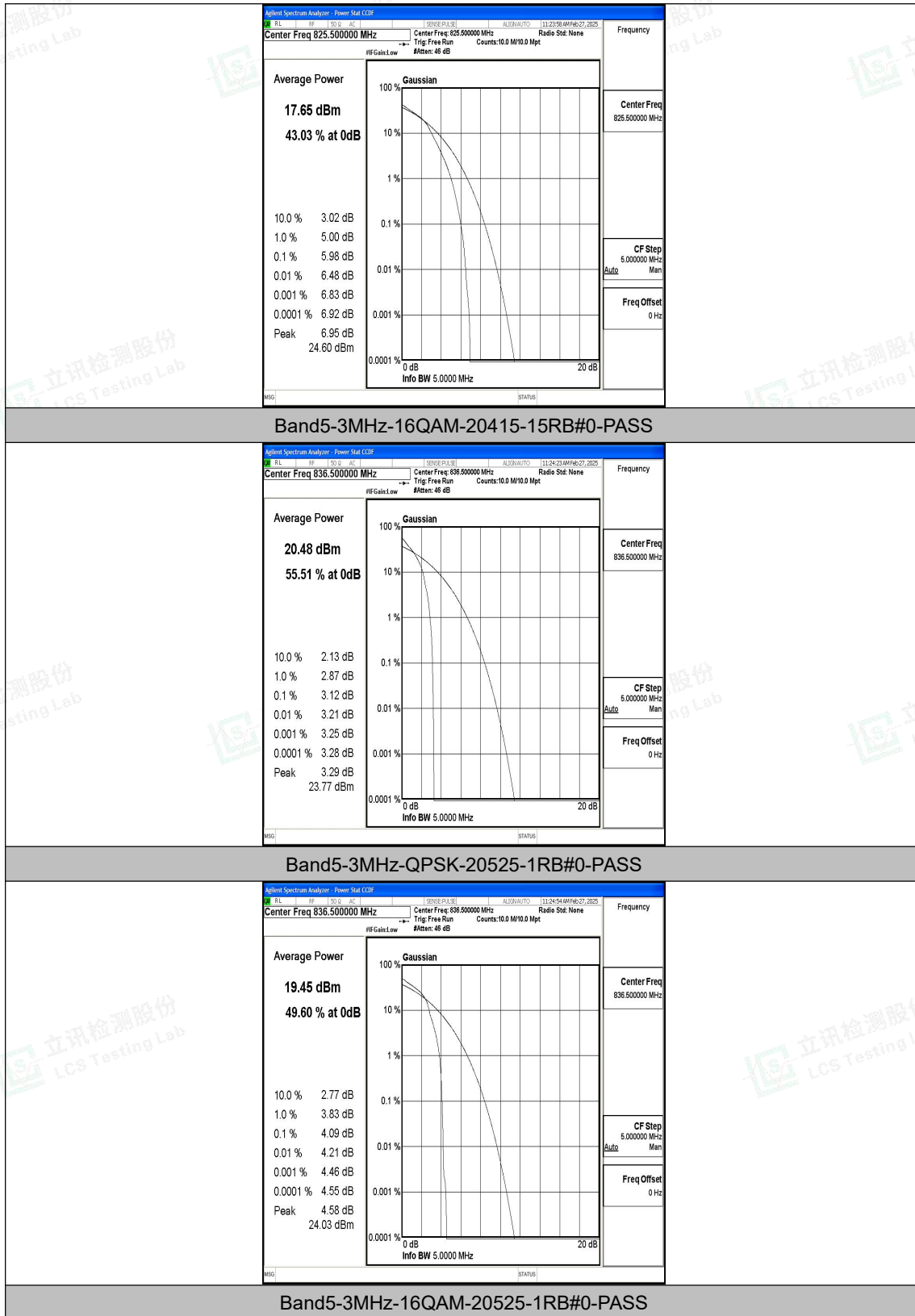


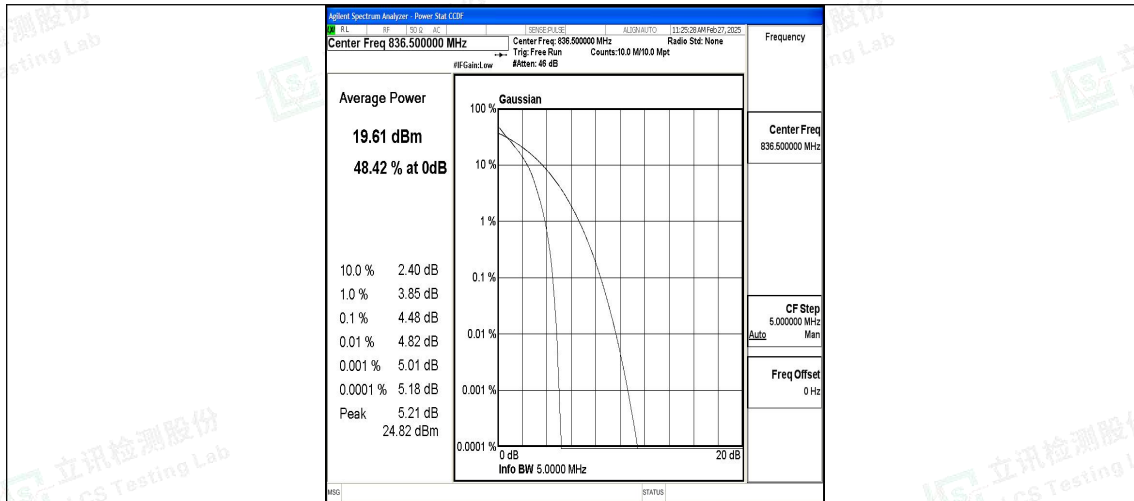
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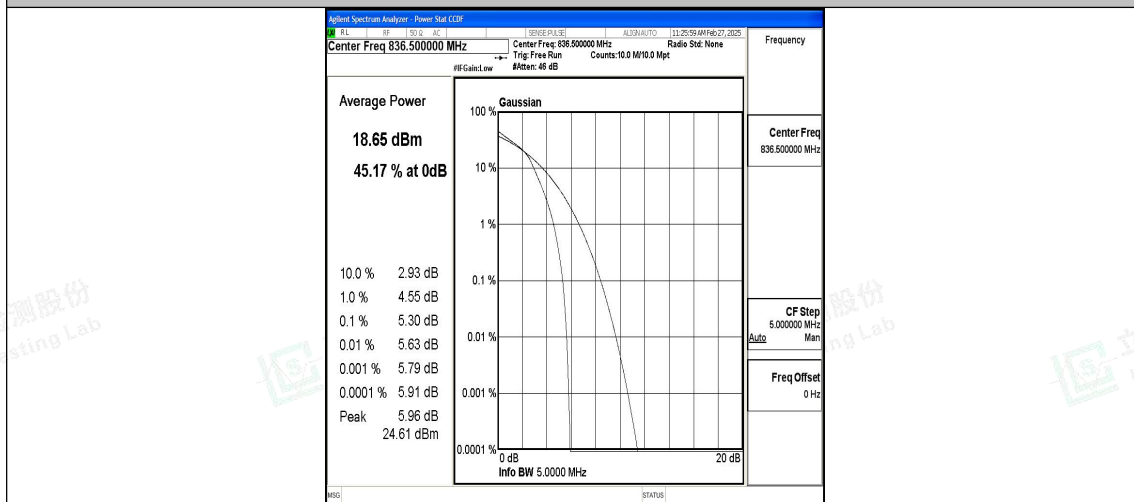
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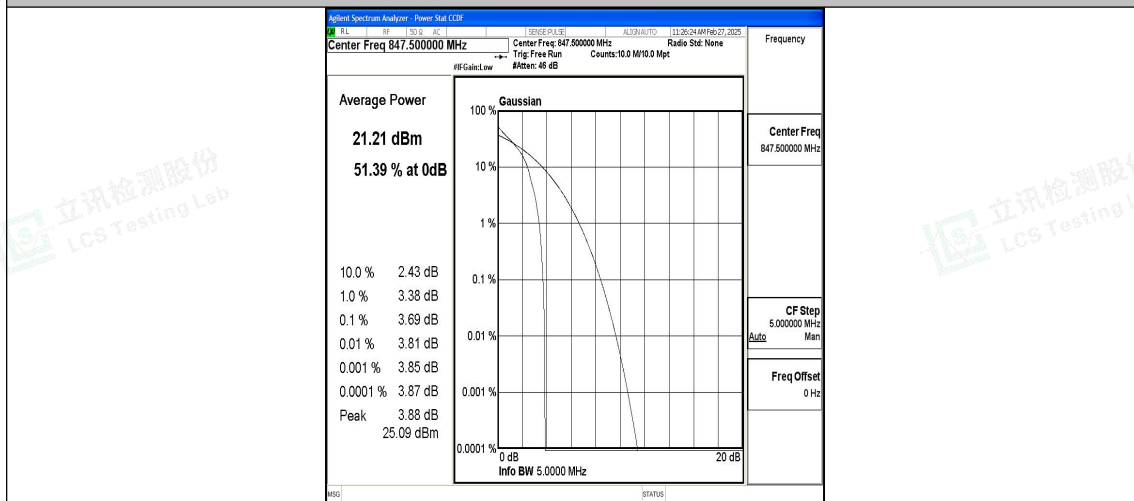




Band5-3MHz-QPSK-20525-15RB#0-PASS



Band5-3MHz-16QAM-20525-15RB#0-PASS



Band5-3MHz-QPSK-20635-1RB#0-PASS

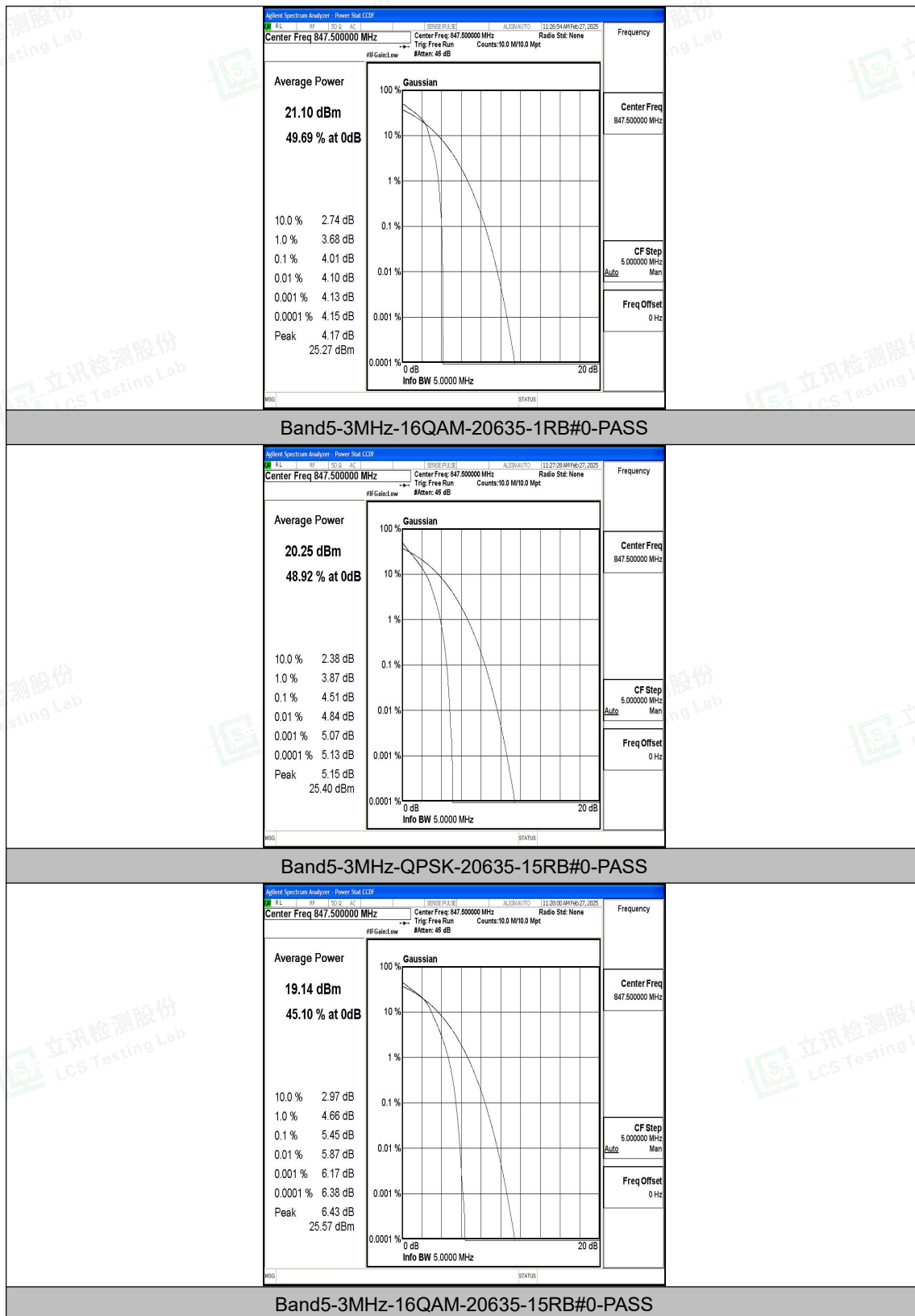


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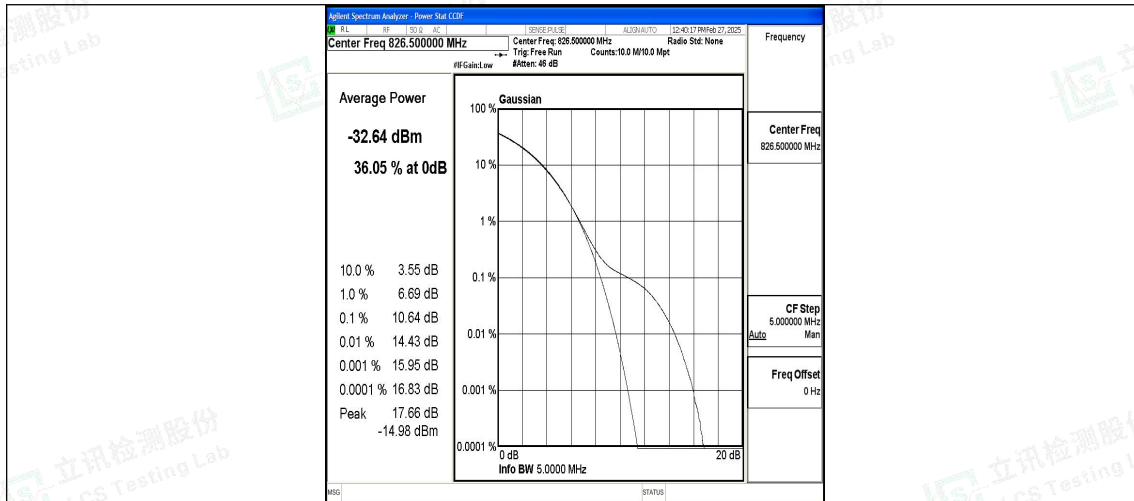


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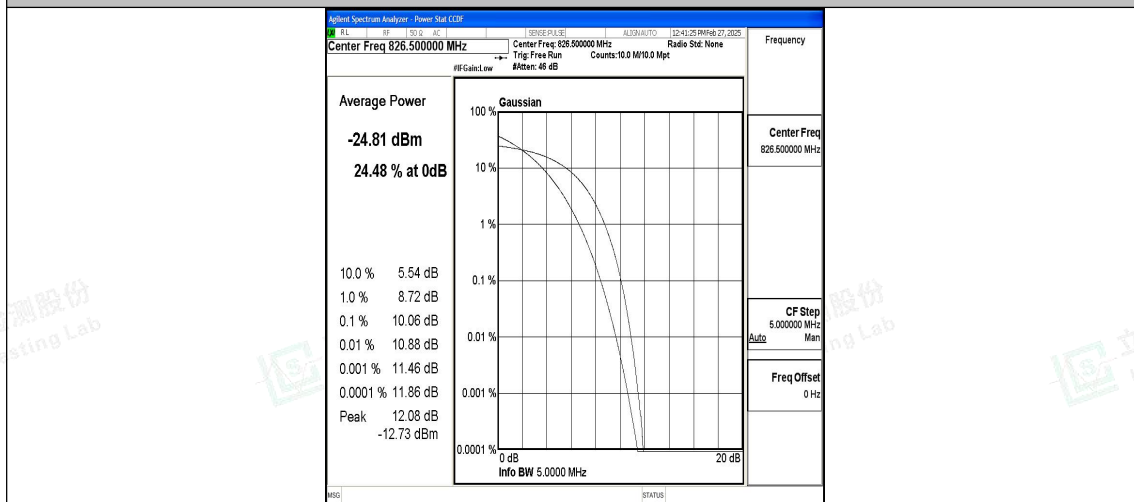
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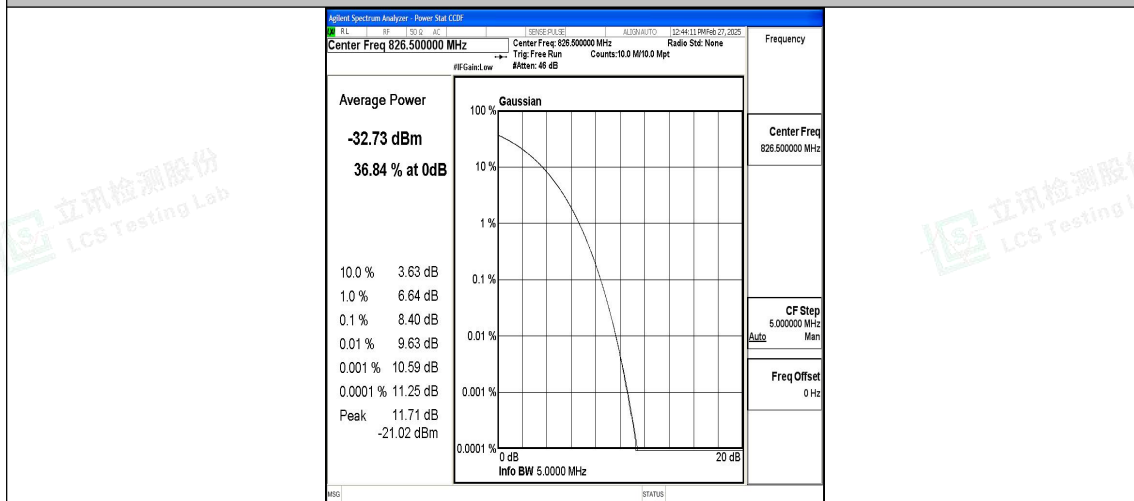
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Band5-5MHz-QPSK-20425-1RB#0-PASS



Band5-5MHz-16QAM-20425-1RB#0-PASS



Band5-5MHz-QPSK-20425-25RB#0-PASS

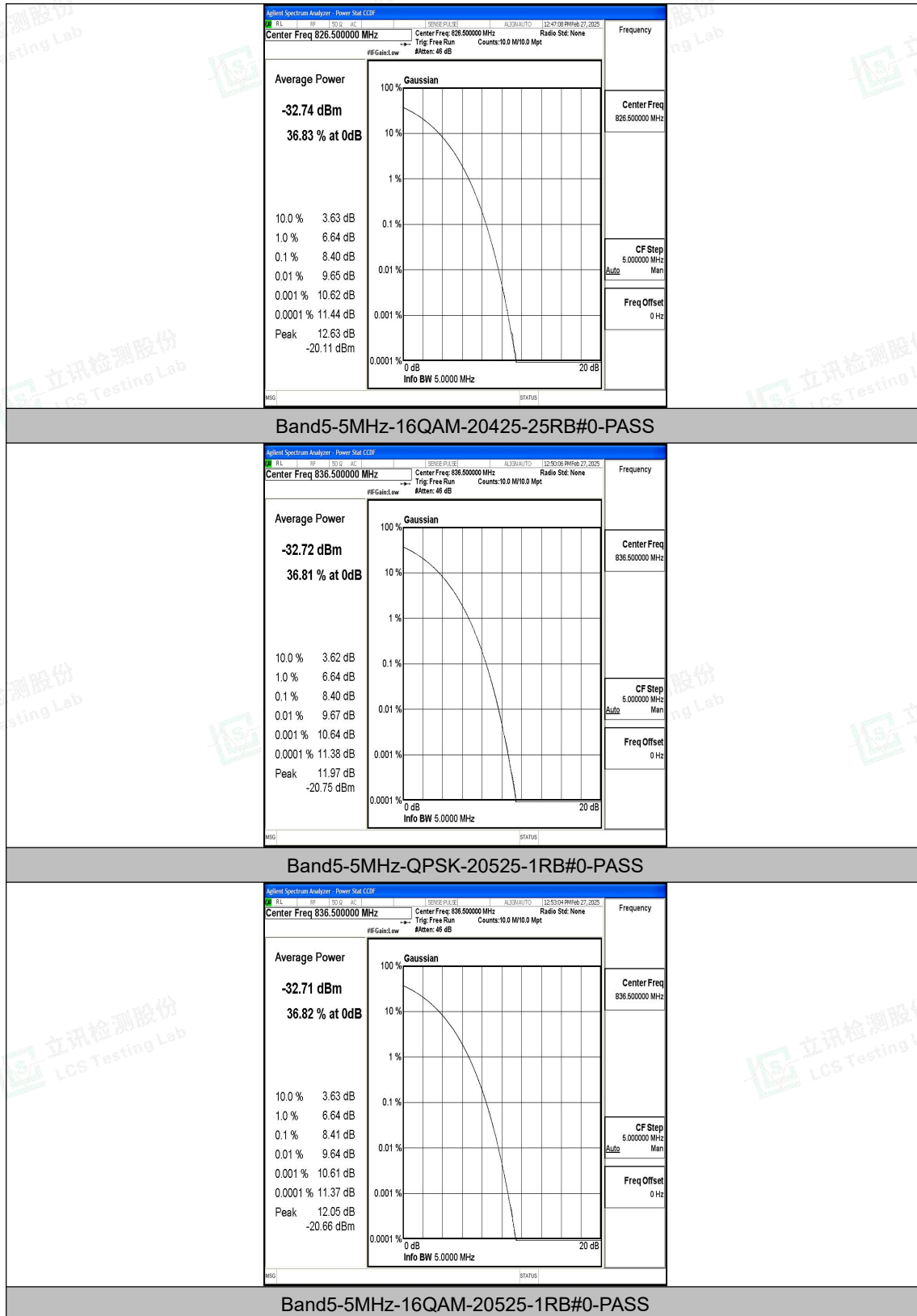


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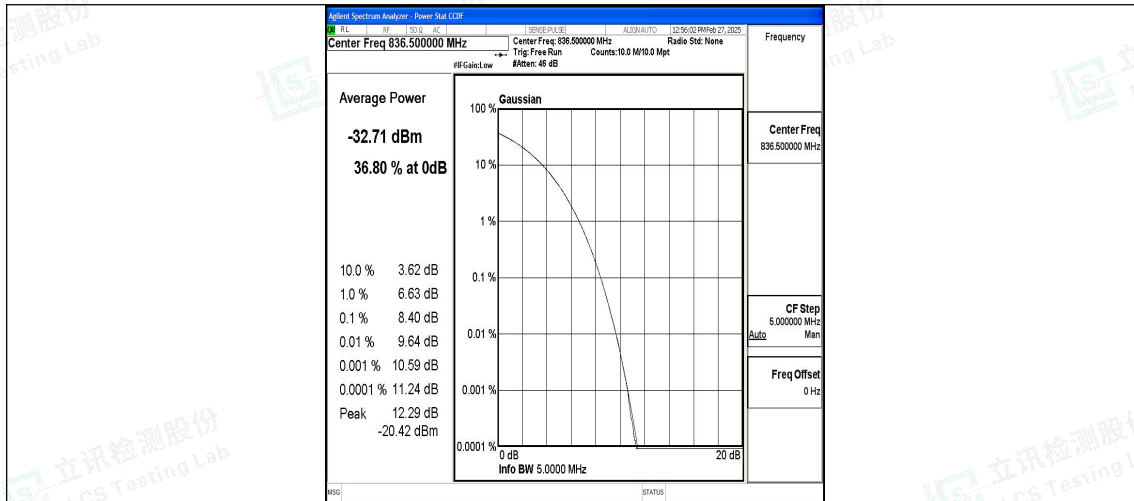


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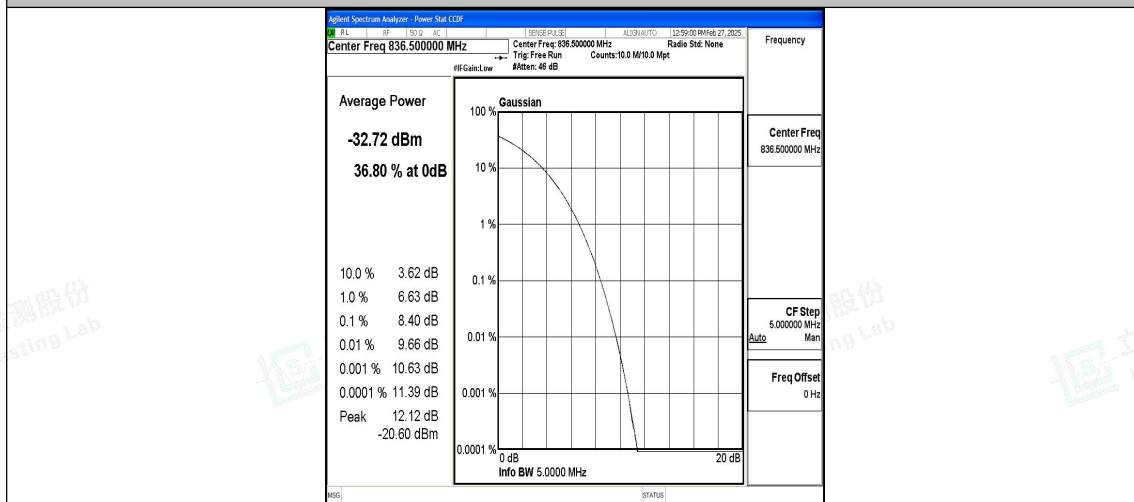
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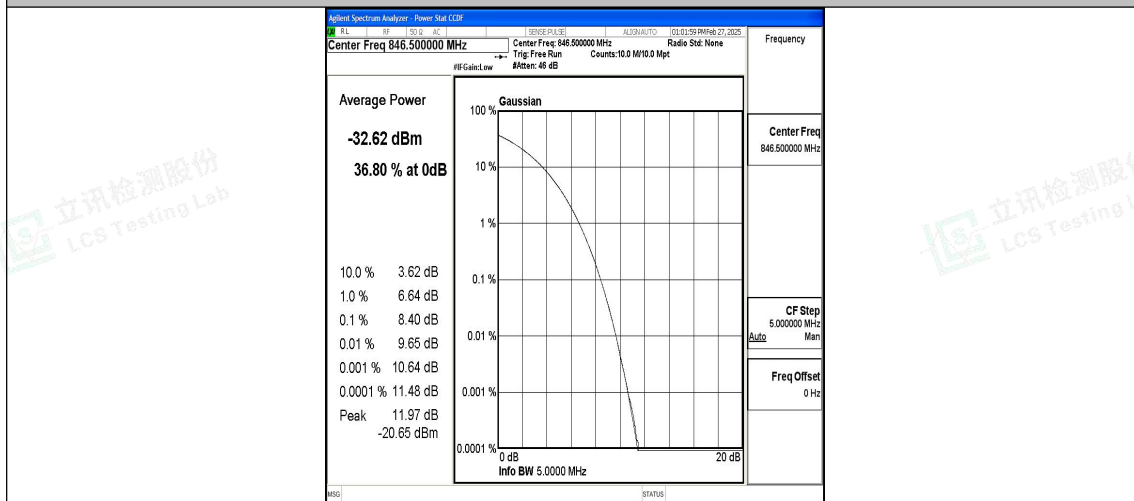
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Band5-5MHz-QPSK-20525-25RB#0-PASS



Band5-5MHz-16QAM-20525-25RB#0-PASS



Band5-5MHz-QPSK-20625-1RB#0-PASS



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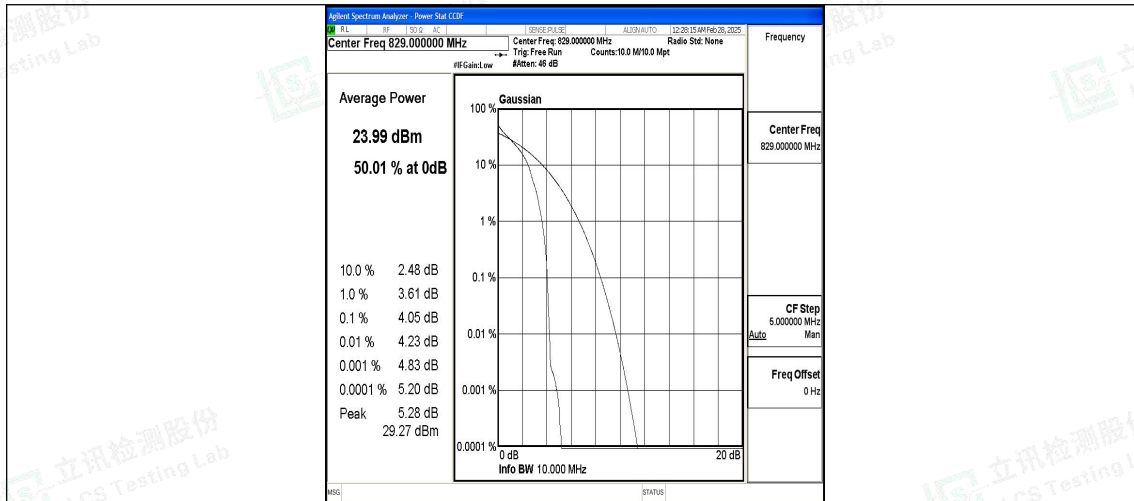


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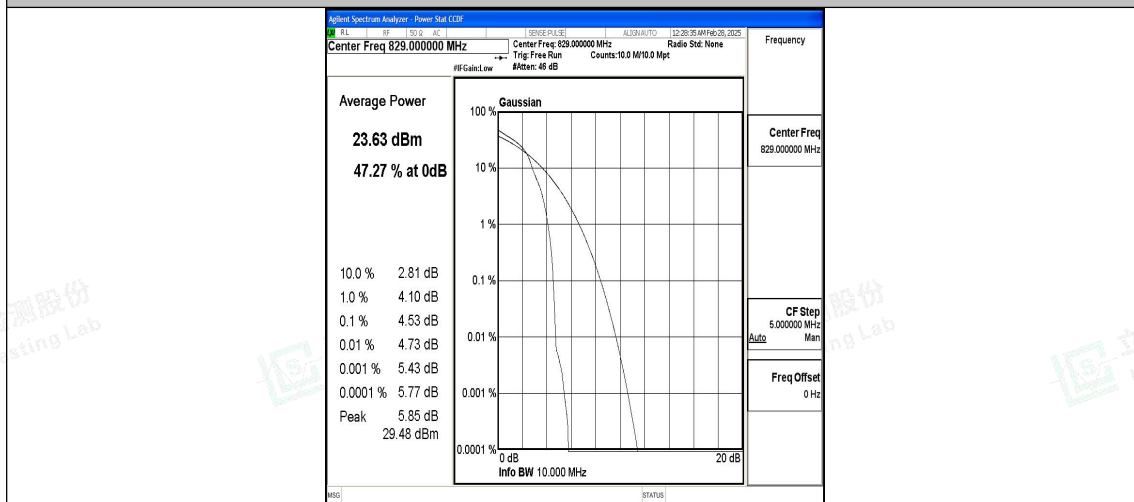
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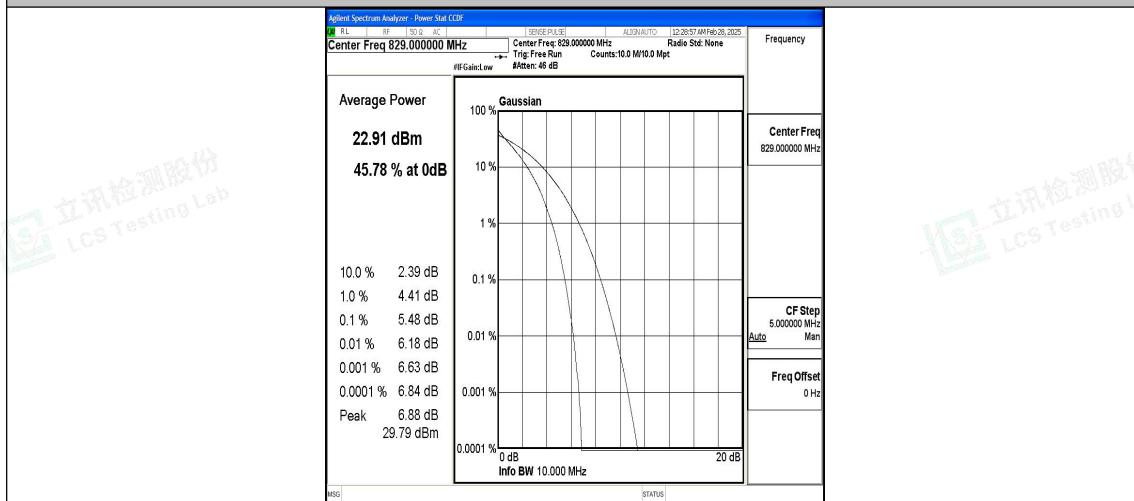
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Band5-10MHz-QPSK-20450-1RB#0-PASS



Band5-10MHz-16QAM-20450-1RB#0-PASS



Band5-10MHz-QPSK-20450-50RB#0-PASS

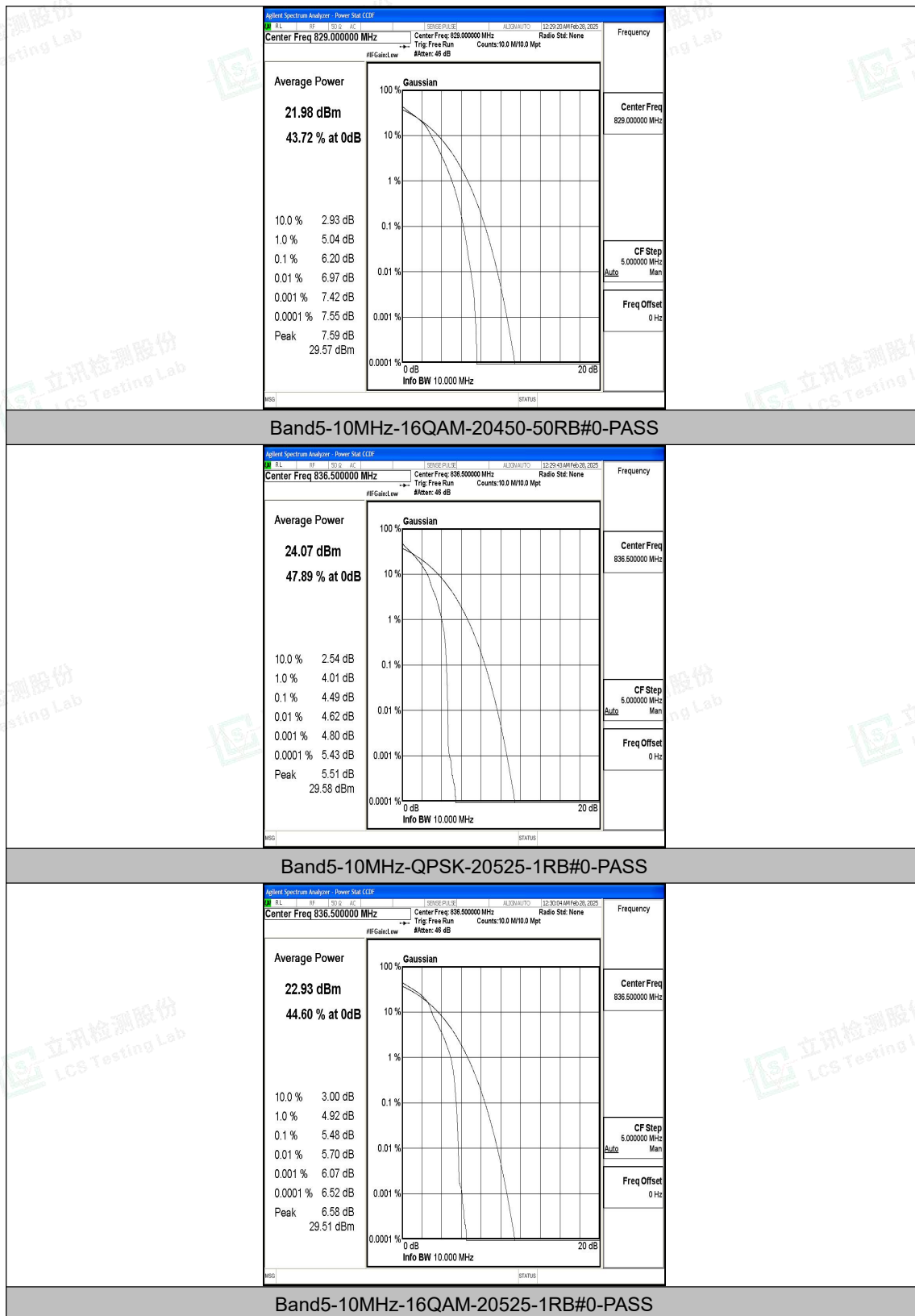


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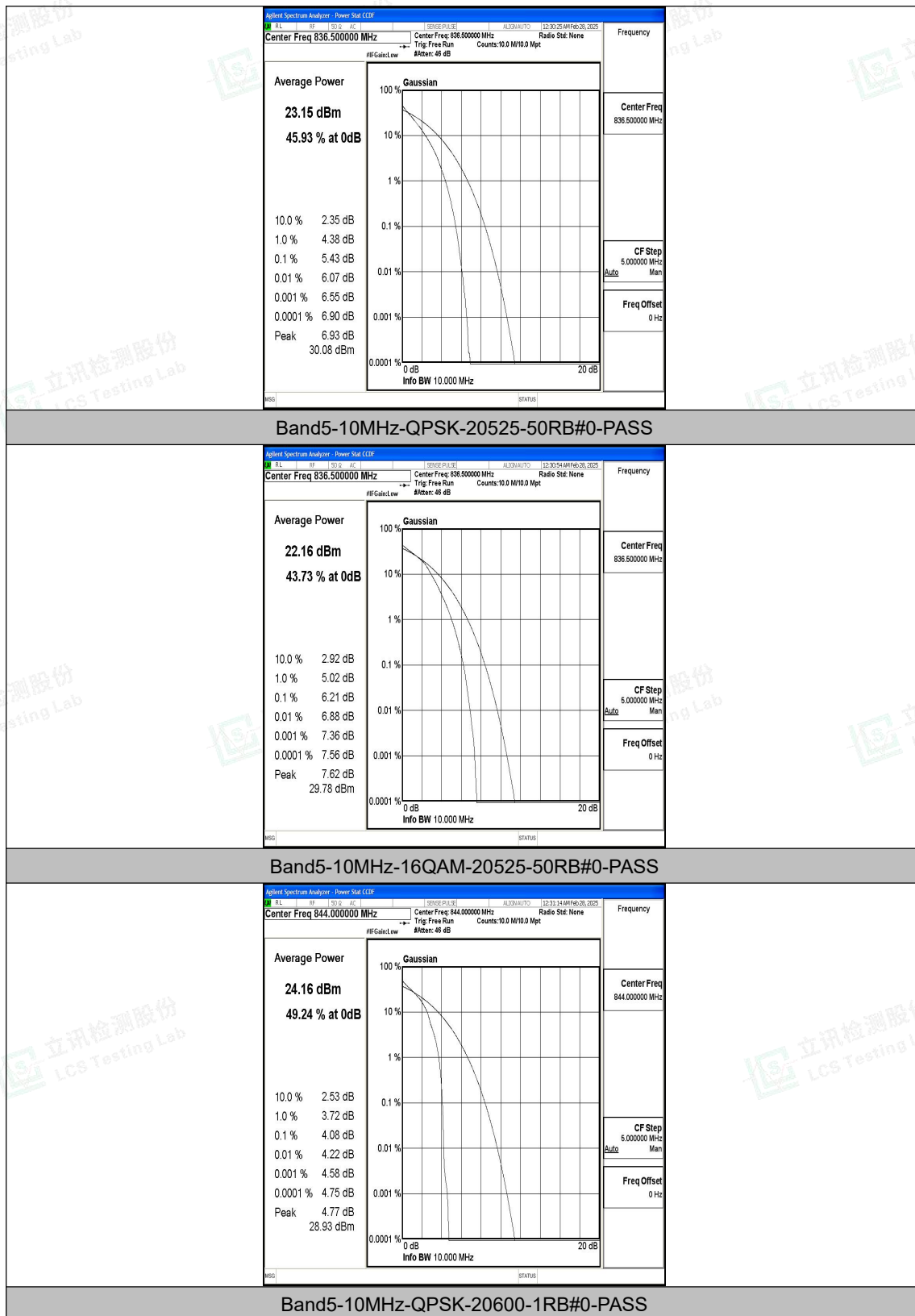


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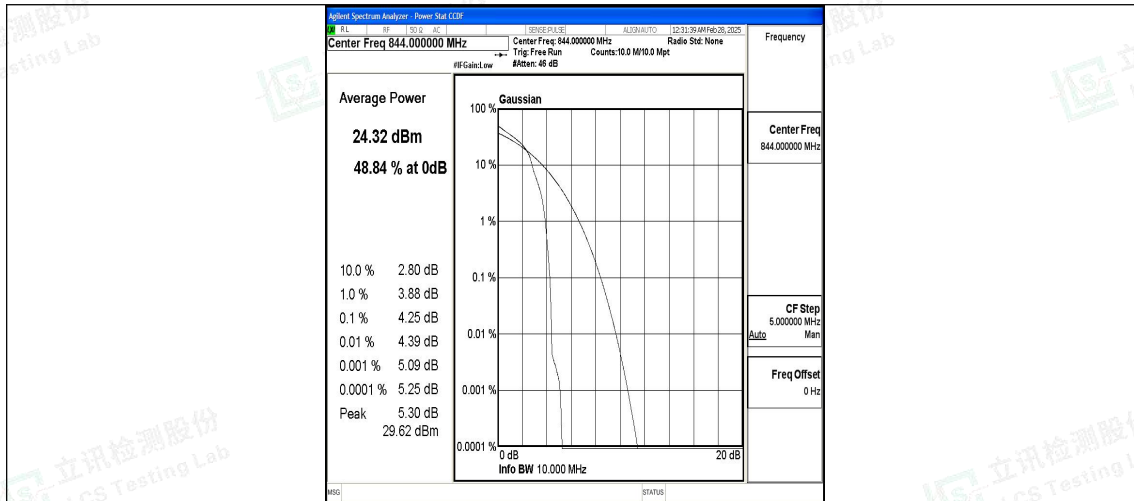


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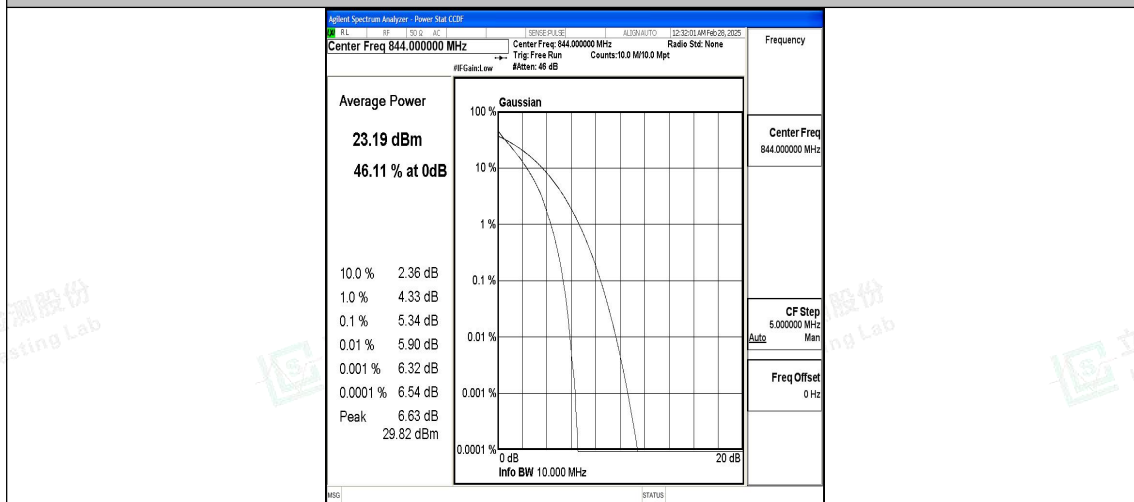
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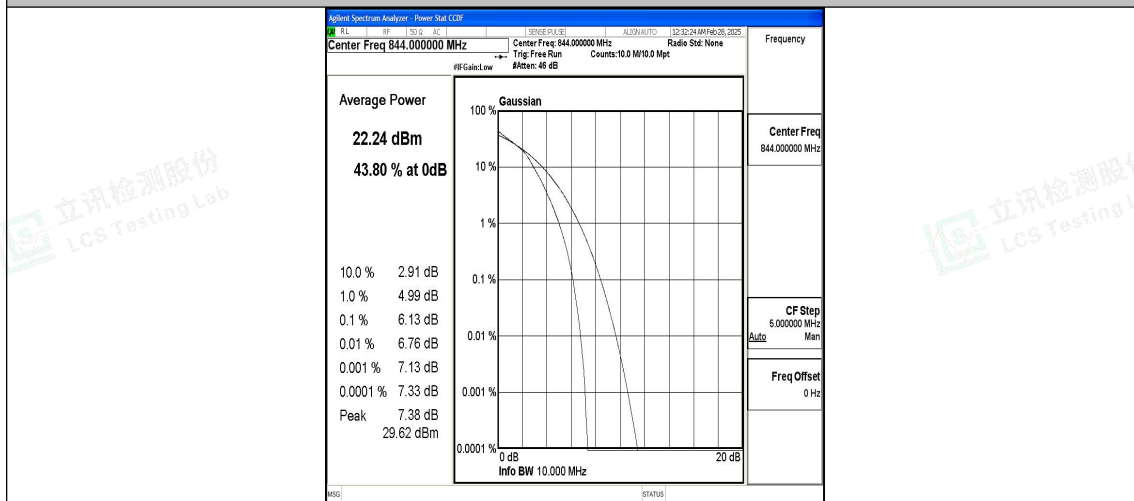
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Band5-10MHz-16QAM-20600-1RB#0-PASS



Band5-10MHz-QPSK-20600-50RB#0-PASS



Band5-10MHz-16QAM-20600-50RB#0-PASS



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F.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	1.0968	1.239	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1035	1.246	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.1014	1.242	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0981	1.243	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1007	1.254	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0950	1.239	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7479	3.102	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7529	3.084	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7429	3.087	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7452	3.118	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7409	3.106	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7484	3.077	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5210	4.995	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5152	4.972	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5022	4.972	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5195	4.973	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5127	4.974	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5227	4.983	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9941	9.788	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9943	9.796	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0021	9.755	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9800	9.787	PASS
Band5	10MHz	QPSK	20600	50RB#0	9.0002	9.807	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9650	9.741	PASS



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Test Graphs



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