



Appendix O Test Data for E-UTRA Band 41

Product Name: Translator

Test Model: V9000

Environmental Conditions

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



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O.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	21.48	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.11	PASS
Band41	5MHz	QPSK	39675	1RB#12	21.48	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.26	PASS
Band41	5MHz	QPSK	39675	1RB#24	21.36	PASS
Band41	5MHz	16QAM	39675	1RB#24	20.96	PASS
Band41	5MHz	QPSK	39675	12RB#0	20.55	PASS
Band41	5MHz	16QAM	39675	12RB#0	19.75	PASS
Band41	5MHz	QPSK	39675	12RB#6	20.57	PASS
Band41	5MHz	16QAM	39675	12RB#6	19.76	PASS
Band41	5MHz	QPSK	39675	12RB#13	20.39	PASS
Band41	5MHz	16QAM	39675	12RB#13	19.78	PASS
Band41	5MHz	QPSK	39675	25RB#0	20.41	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.14	PASS
Band41	5MHz	QPSK	40620	1RB#0	21.68	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.12	PASS
Band41	5MHz	QPSK	40620	1RB#12	21.63	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.34	PASS
Band41	5MHz	QPSK	40620	1RB#24	21.57	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.56	PASS
Band41	5MHz	QPSK	40620	12RB#0	20.95	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.13	PASS
Band41	5MHz	QPSK	40620	12RB#6	20.98	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.15	PASS
Band41	5MHz	QPSK	40620	12RB#13	20.93	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	20.86	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.18	PASS
Band41	5MHz	QPSK	41565	1RB#0	21.46	PASS
Band41	5MHz	16QAM	41565	1RB#0	20.97	PASS
Band41	5MHz	QPSK	41565	1RB#12	21.44	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.23	PASS
Band41	5MHz	QPSK	41565	1RB#24	21.49	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.04	PASS
Band41	5MHz	QPSK	41565	12RB#0	20.51	PASS



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Band41	5MHz	16QAM	41565	12RB#0	19.72	PASS
Band41	5MHz	QPSK	41565	12RB#6	20.52	PASS
Band41	5MHz	16QAM	41565	12RB#6	19.73	PASS
Band41	5MHz	QPSK	41565	12RB#13	20.47	PASS
Band41	5MHz	16QAM	41565	12RB#13	19.89	PASS
Band41	5MHz	QPSK	41565	25RB#0	20.70	PASS
Band41	5MHz	16QAM	41565	25RB#0	19.95	PASS
Band41	10MHz	QPSK	39700	1RB#0	21.98	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.27	PASS
Band41	10MHz	QPSK	39700	1RB#24	21.80	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.21	PASS
Band41	10MHz	QPSK	39700	1RB#49	21.83	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.14	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.11	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.36	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.12	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.36	PASS
Band41	10MHz	QPSK	39700	25RB#25	20.96	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.25	PASS
Band41	10MHz	QPSK	39700	50RB#0	20.95	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.32	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.04	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.61	PASS
Band41	10MHz	QPSK	40620	1RB#24	21.87	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.51	PASS
Band41	10MHz	QPSK	40620	1RB#49	21.83	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.39	PASS
Band41	10MHz	QPSK	40620	25RB#0	20.85	PASS
Band41	10MHz	16QAM	40620	25RB#0	20.08	PASS
Band41	10MHz	QPSK	40620	25RB#12	20.86	PASS
Band41	10MHz	16QAM	40620	25RB#12	19.98	PASS
Band41	10MHz	QPSK	40620	25RB#25	20.64	PASS
Band41	10MHz	16QAM	40620	25RB#25	19.97	PASS
Band41	10MHz	QPSK	40620	50RB#0	20.77	PASS
Band41	10MHz	16QAM	40620	50RB#0	19.91	PASS
Band41	10MHz	QPSK	41540	1RB#0	21.75	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.35	PASS
Band41	10MHz	QPSK	41540	1RB#24	21.73	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.38	PASS
Band41	10MHz	QPSK	41540	1RB#49	21.33	PASS



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Band41	10MHz	16QAM	41540	1RB#49	20.62	PASS
Band41	10MHz	QPSK	41540	25RB#0	20.48	PASS
Band41	10MHz	16QAM	41540	25RB#0	19.70	PASS
Band41	10MHz	QPSK	41540	25RB#12	20.49	PASS
Band41	10MHz	16QAM	41540	25RB#12	19.70	PASS
Band41	10MHz	QPSK	41540	25RB#25	20.47	PASS
Band41	10MHz	16QAM	41540	25RB#25	19.73	PASS
Band41	10MHz	QPSK	41540	50RB#0	20.40	PASS
Band41	10MHz	16QAM	41540	50RB#0	19.77	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.36	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.01	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.03	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.17	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.96	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.28	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.28	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.28	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.27	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.27	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.27	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.27	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.57	PASS
Band41	15MHz	QPSK	40620	1RB#0	21.97	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.72	PASS
Band41	15MHz	QPSK	40620	1RB#38	21.90	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.55	PASS
Band41	15MHz	QPSK	40620	1RB#74	21.87	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.43	PASS
Band41	15MHz	QPSK	40620	38RB#0	20.85	PASS
Band41	15MHz	16QAM	40620	38RB#0	20.85	PASS
Band41	15MHz	QPSK	40620	38RB#18	20.85	PASS
Band41	15MHz	16QAM	40620	38RB#18	20.86	PASS
Band41	15MHz	QPSK	40620	38RB#37	20.78	PASS
Band41	15MHz	16QAM	40620	38RB#37	20.59	PASS
Band41	15MHz	QPSK	40620	75RB#0	20.59	PASS
Band41	15MHz	16QAM	40620	75RB#0	19.95	PASS
Band41	15MHz	QPSK	41515	1RB#0	21.66	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.37	PASS
Band41	15MHz	QPSK	41515	1RB#38	21.68	PASS



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Band41	15MHz	16QAM	41515	1RB#38	21.31	PASS
Band41	15MHz	QPSK	41515	1RB#74	21.29	PASS
Band41	15MHz	16QAM	41515	1RB#74	20.65	PASS
Band41	15MHz	QPSK	41515	38RB#0	20.40	PASS
Band41	15MHz	16QAM	41515	38RB#0	20.41	PASS
Band41	15MHz	QPSK	41515	38RB#18	20.40	PASS
Band41	15MHz	16QAM	41515	38RB#18	20.41	PASS
Band41	15MHz	QPSK	41515	38RB#37	20.41	PASS
Band41	15MHz	16QAM	41515	38RB#37	20.41	PASS
Band41	15MHz	QPSK	41515	75RB#0	20.41	PASS
Band41	15MHz	16QAM	41515	75RB#0	19.89	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.03	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.42	PASS
Band41	20MHz	QPSK	39750	1RB#49	21.89	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.36	PASS
Band41	20MHz	QPSK	39750	1RB#99	21.71	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.12	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.32	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.83	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.31	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.83	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.26	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.68	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.23	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.52	PASS
Band41	20MHz	QPSK	40620	1RB#0	21.71	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.55	PASS
Band41	20MHz	QPSK	40620	1RB#49	21.56	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.22	PASS
Band41	20MHz	QPSK	40620	1RB#99	21.56	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.30	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.01	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.35	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.02	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.36	PASS
Band41	20MHz	QPSK	40620	50RB#50	20.95	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.26	PASS
Band41	20MHz	QPSK	40620	100RB#0	20.93	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.18	PASS
Band41	20MHz	QPSK	41490	1RB#0	21.44	PASS



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Band41	20MHz	16QAM	41490	1RB#0	21.39	PASS
Band41	20MHz	QPSK	41490	1RB#49	21.40	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.39	PASS
Band41	20MHz	QPSK	41490	1RB#99	21.38	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.39	PASS
Band41	20MHz	QPSK	41490	50RB#0	20.62	PASS
Band41	20MHz	16QAM	41490	50RB#0	20.05	PASS
Band41	20MHz	QPSK	41490	50RB#25	20.63	PASS
Band41	20MHz	16QAM	41490	50RB#25	20.06	PASS
Band41	20MHz	QPSK	41490	50RB#50	20.74	PASS
Band41	20MHz	16QAM	41490	50RB#50	20.06	PASS
Band41	20MHz	QPSK	41490	100RB#0	20.71	PASS
Band41	20MHz	16QAM	41490	100RB#0	19.92	PASS



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O.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	8.17	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	8.68	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	8.81	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	9.47	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	8.45	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	9.03	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	9.01	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	9.72	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	8.25	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	8.76	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	9.02	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	9.82	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	7.83	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	8.45	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	9.00	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	9.65	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	8.30	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	8.84	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.87	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	9.70	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	8.27	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	8.62	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.02	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.93	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	8.19	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	8.38	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	9.24	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	9.91	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	8.03	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	9.01	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	9.21	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	9.79	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	8.38	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	8.78	13	PASS



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Band41	15MHz	QPSK	41515	75RB#0	9.39	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	9.66	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	7.94	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	8.66	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	9.11	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.57	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	8.58	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	8.65	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	9.26	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.97	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	7.87	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	8.54	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.27	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.63	13	PASS



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Test Graphs

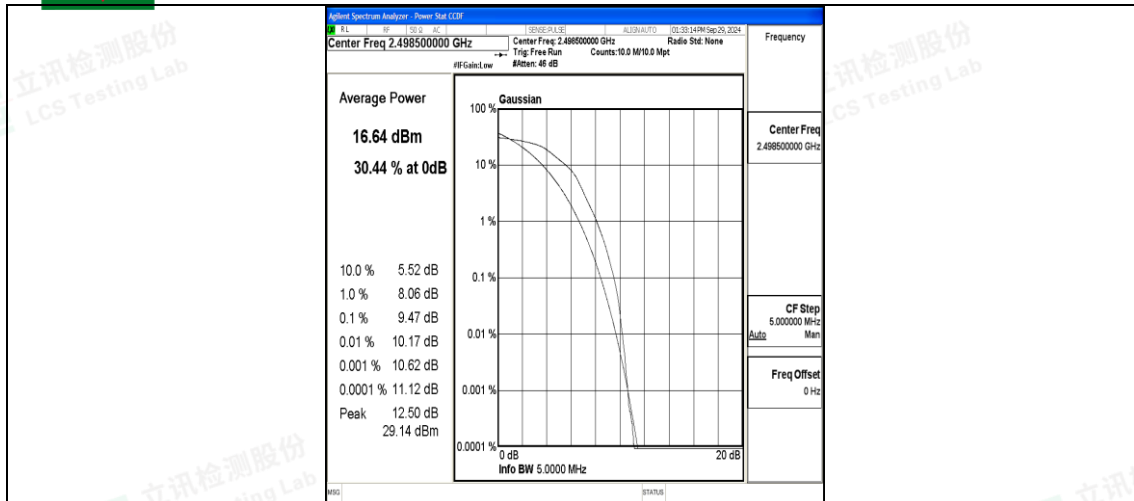


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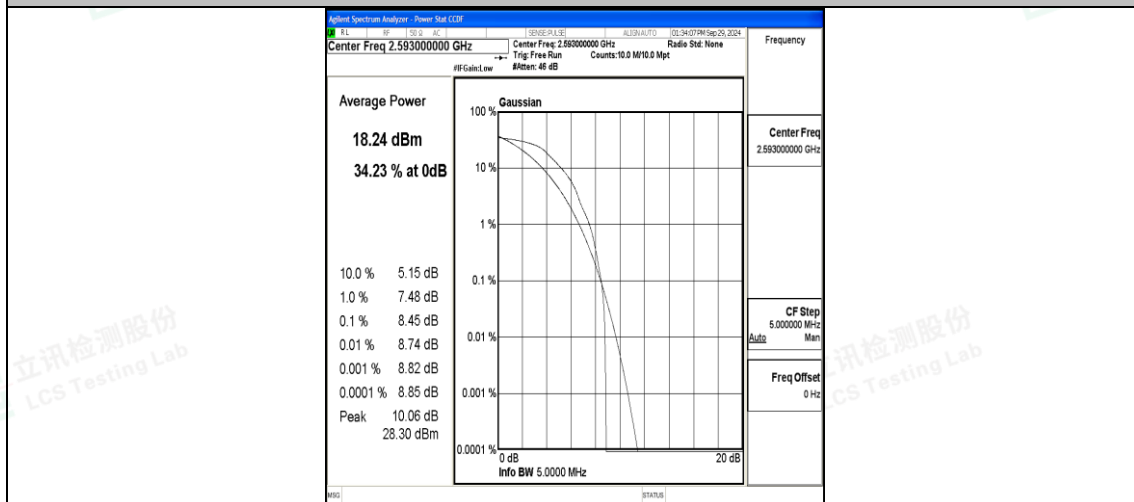
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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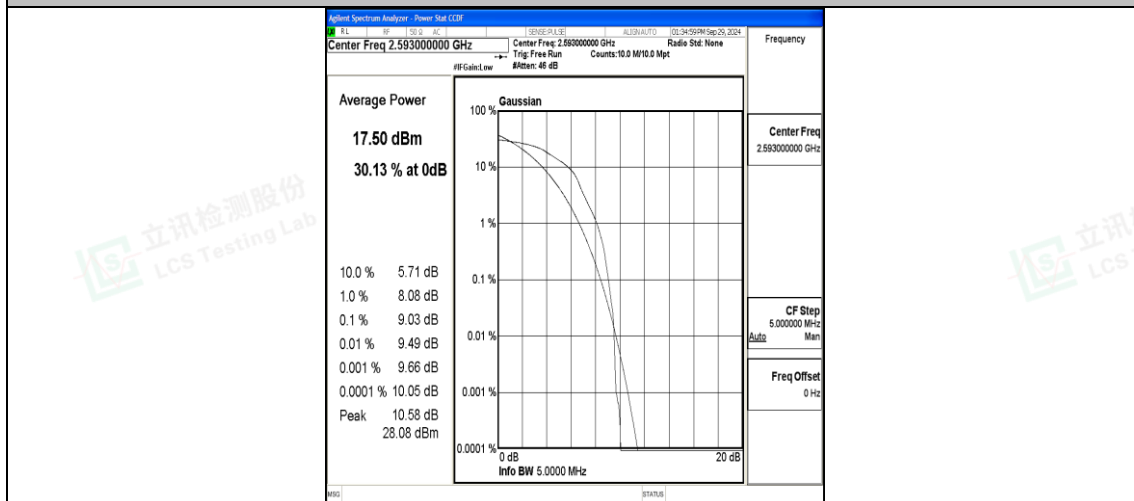
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Band41-5MHz-16QAM-39675-25RB#0-PASS



Band41-5MHz-QPSK-40620-1RB#0-PASS



Band41-5MHz-16QAM-40620-1RB#0-PASS

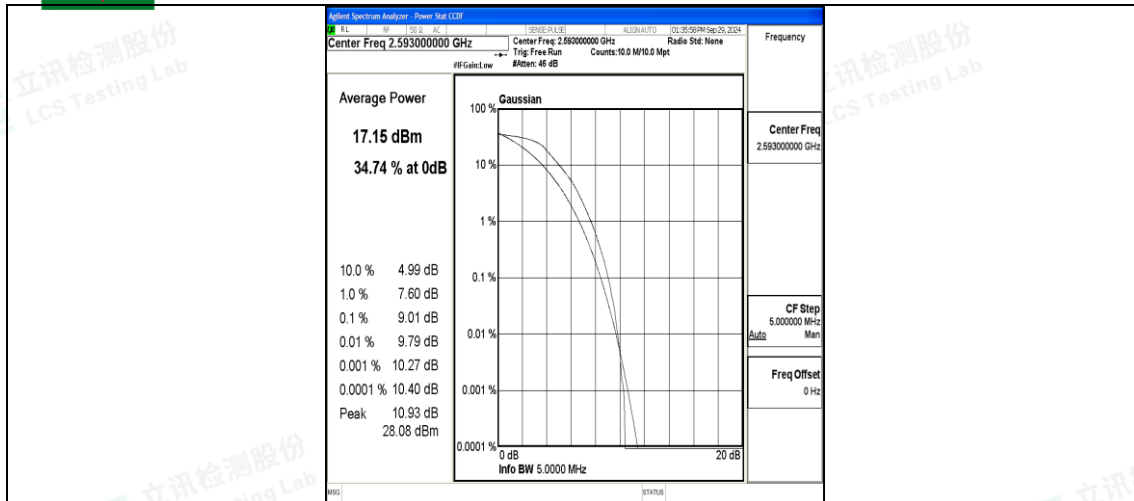


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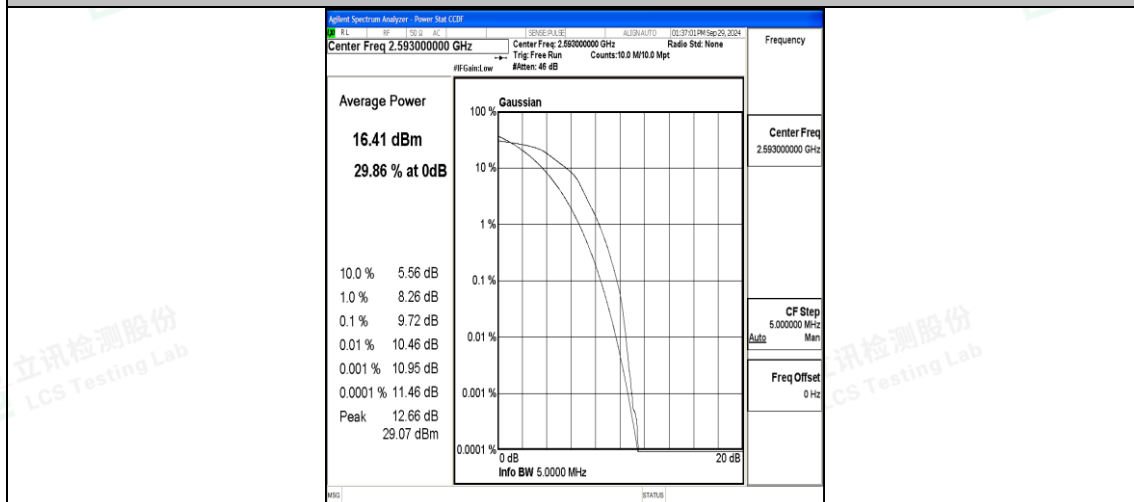
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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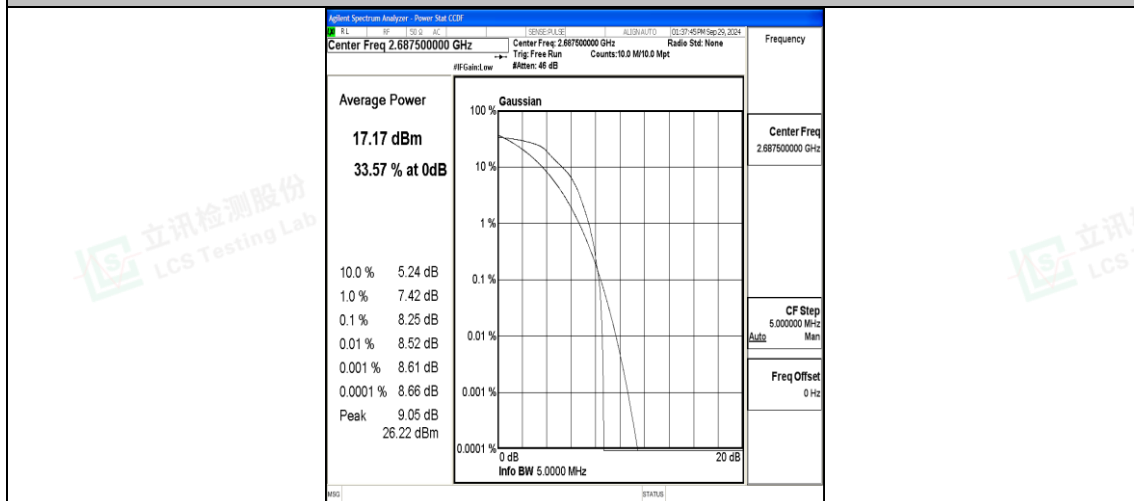
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Band41-5MHz-QPSK-40620-25RB#0-PASS



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



Band41-5MHz-QPSK-41565-1RB#0-PASS

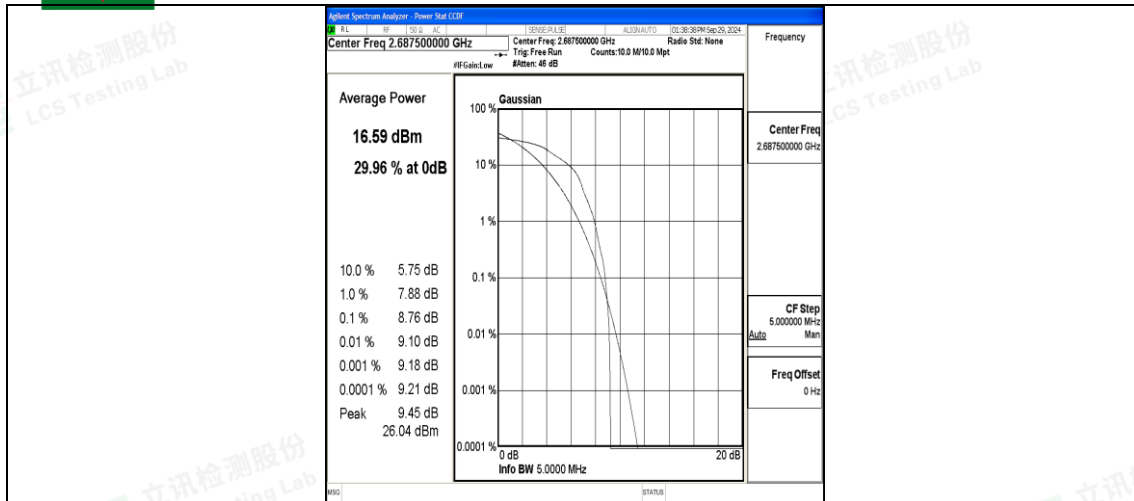


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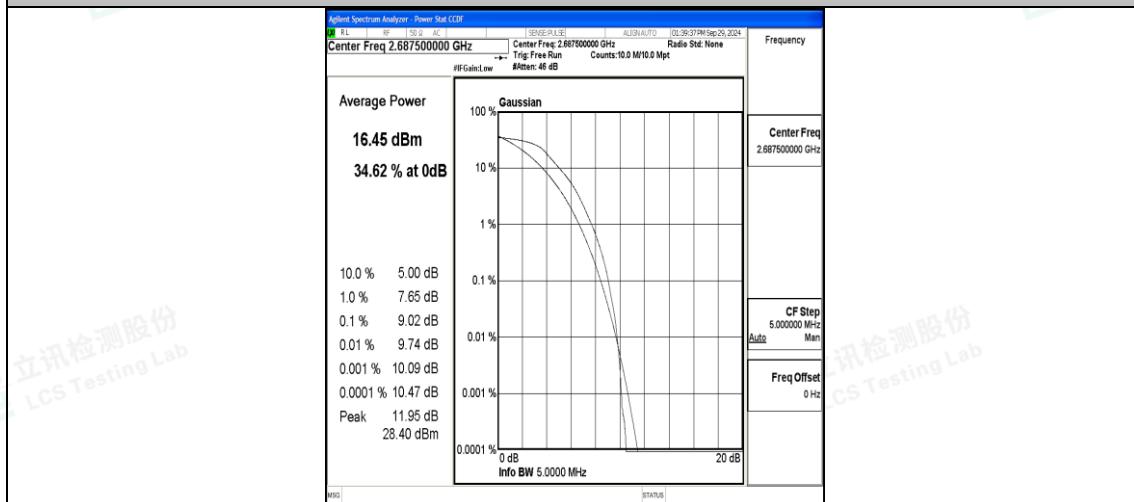
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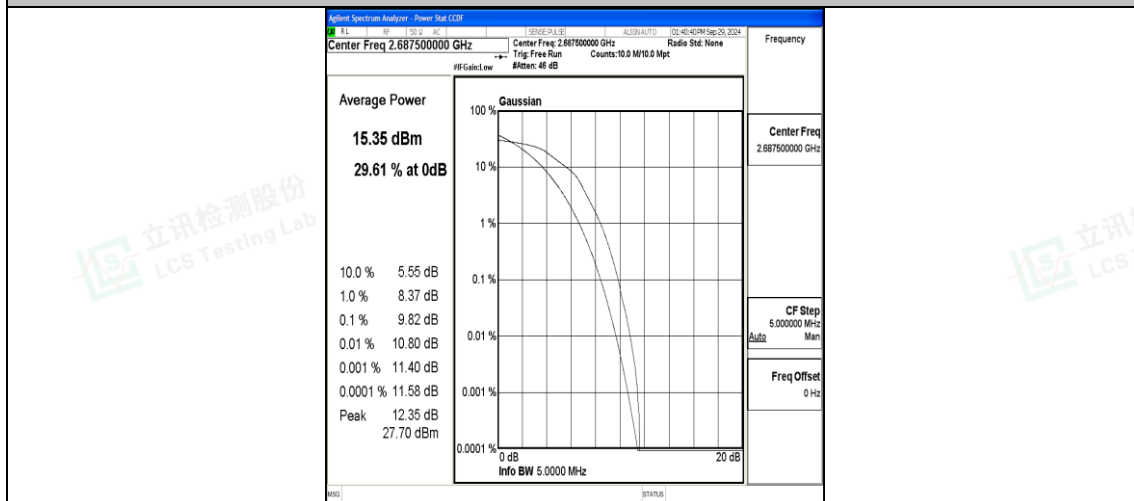
Scan code to check authenticity



Band41-5MHz-16QAM-41565-1RB#0-PASS



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



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

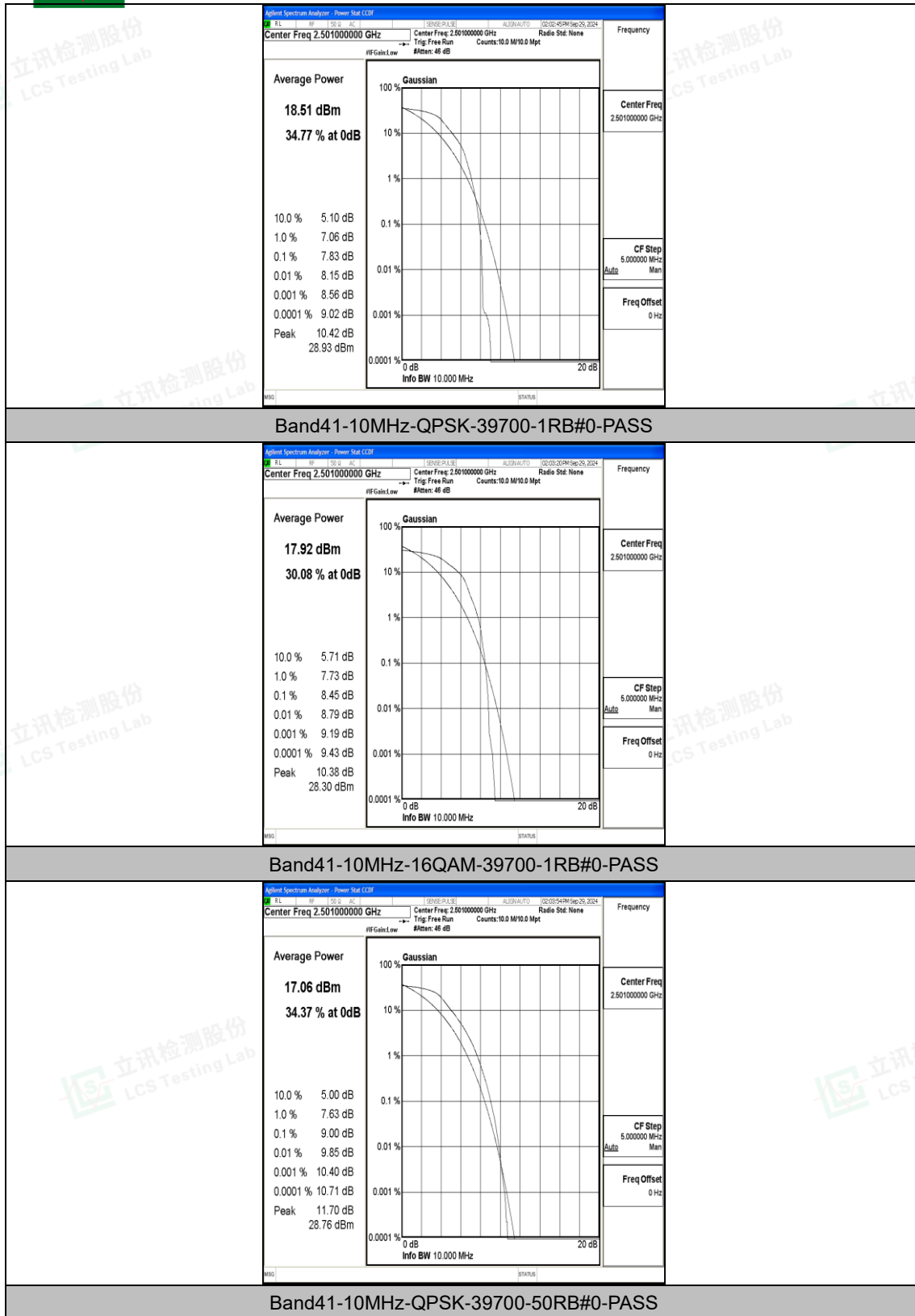


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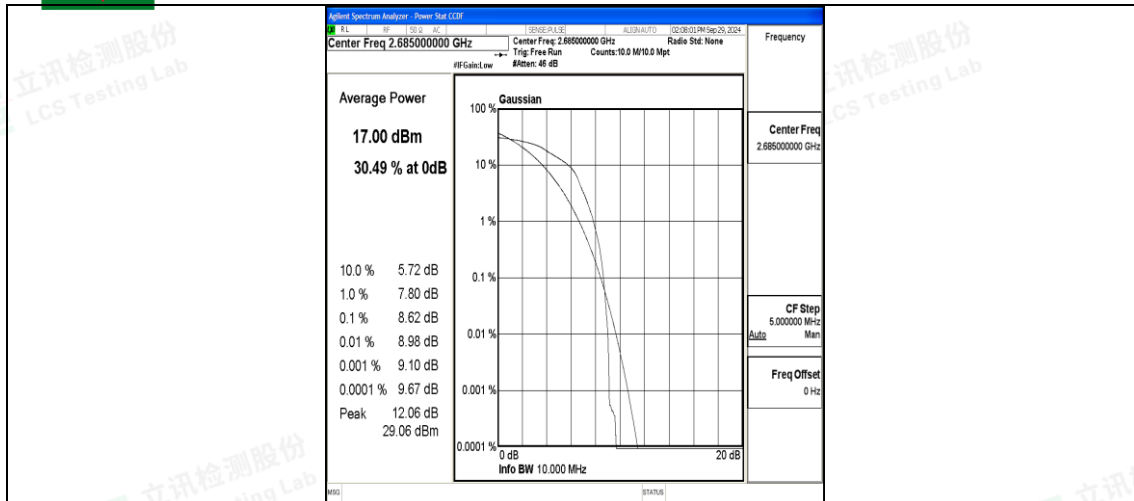


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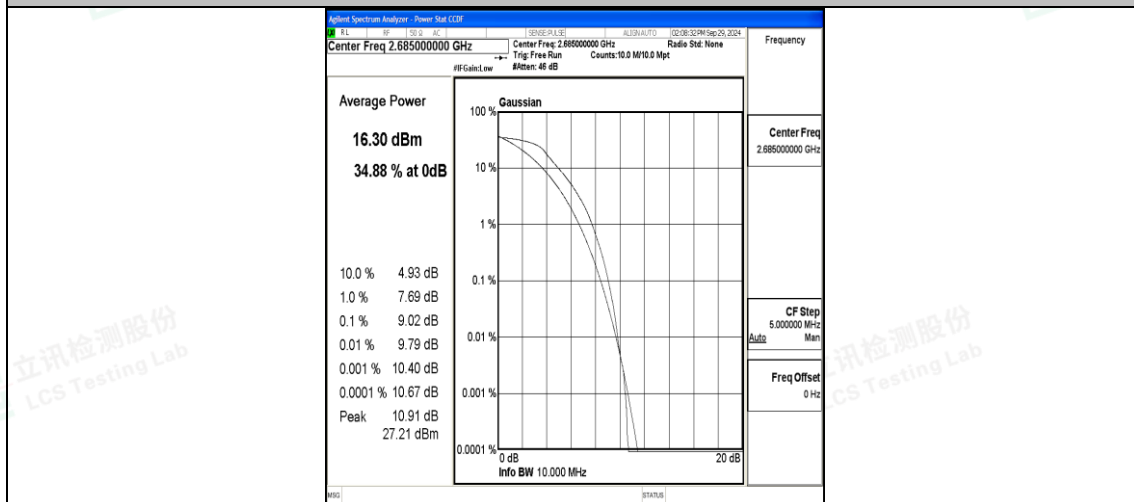
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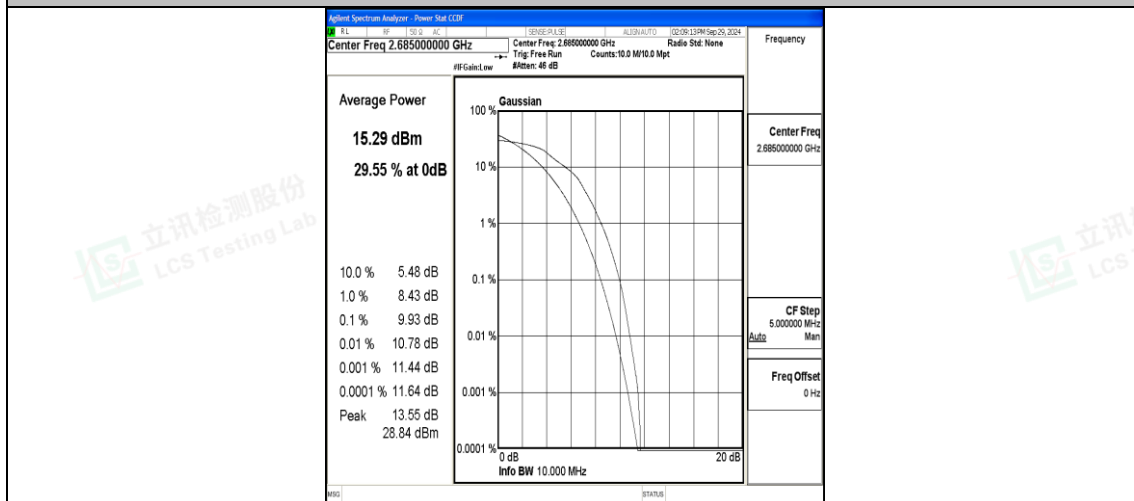
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Band41-10MHz-16QAM-41540-1RB#0-PASS



Band41-10MHz-QPSK-41540-50RB#0-PASS



Band41-10MHz-16QAM-41540-50RB#0-PASS

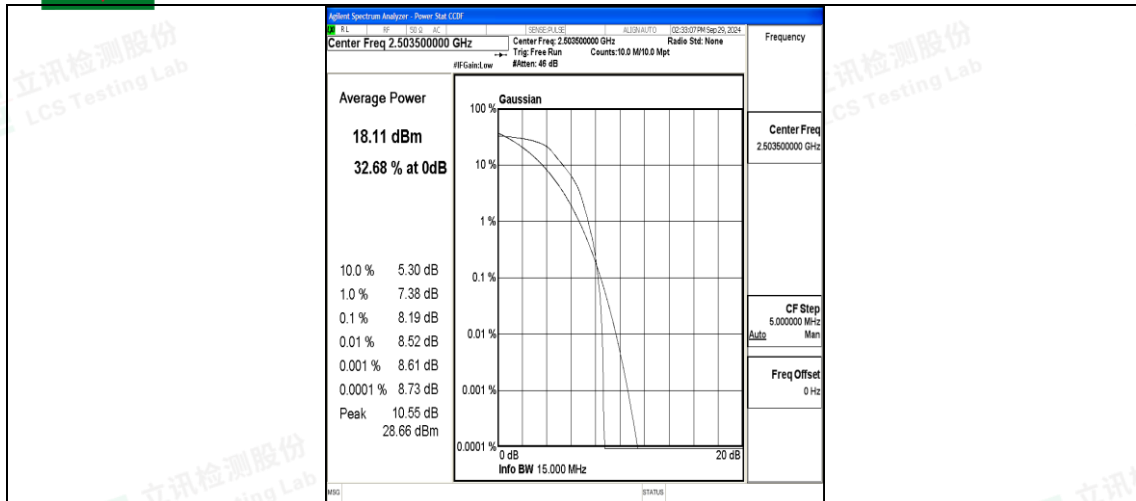


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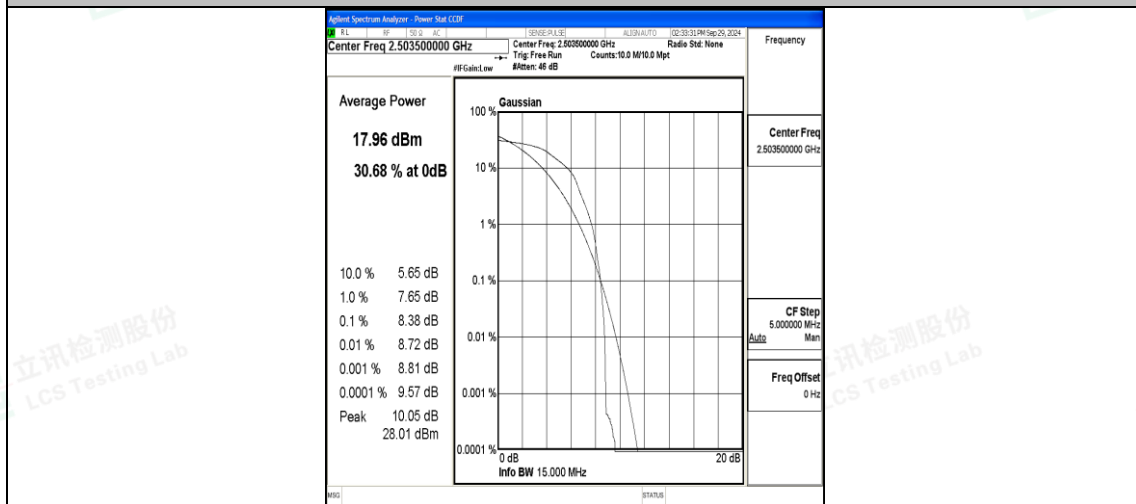
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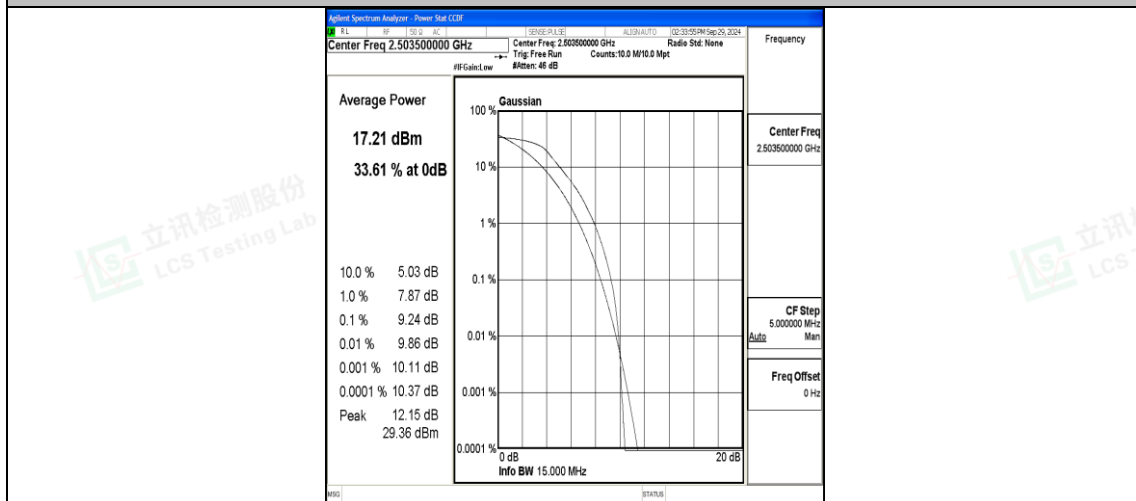
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Band41-15MHz-QPSK-39725-1RB#0-PASS



Band41-15MHz-16QAM-39725-1RB#0-PASS



Band41-15MHz-QPSK-39725-75RB#0-PASS

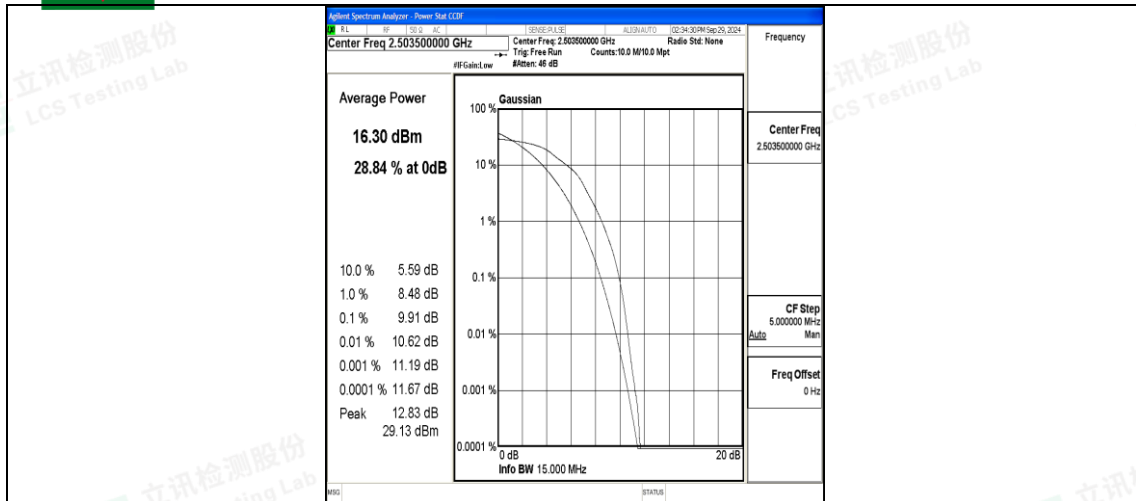


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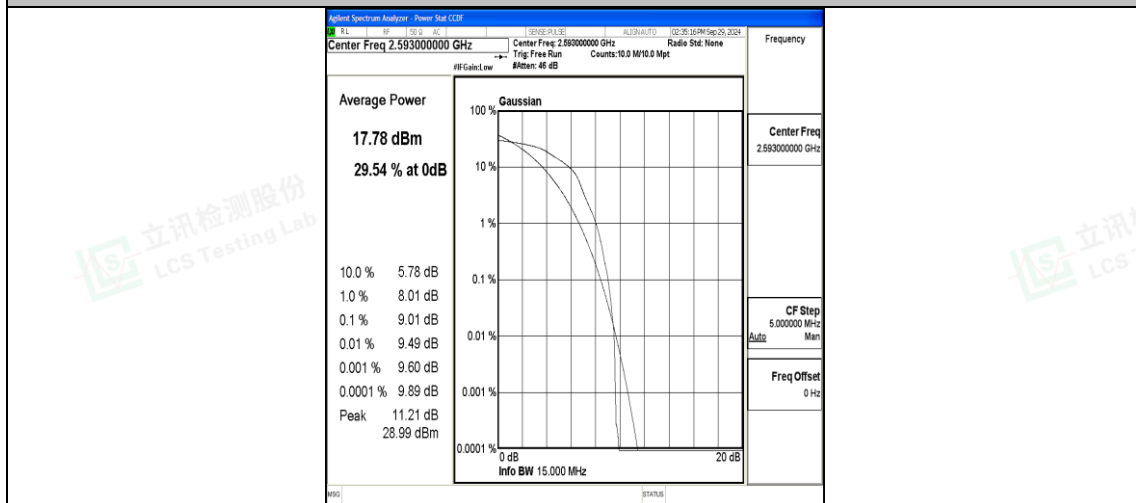
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Band41-15MHz-16QAM-39725-75RB#0-PASS



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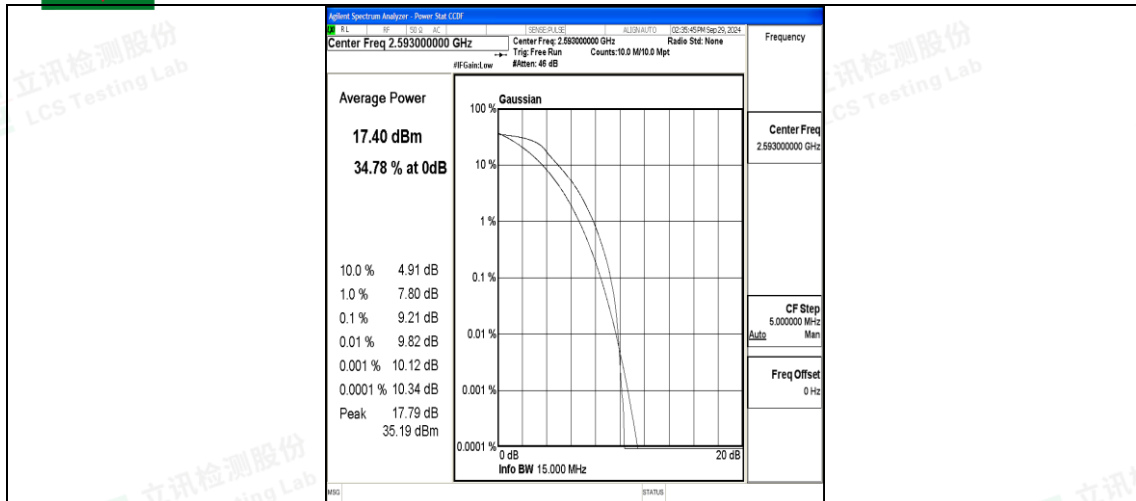


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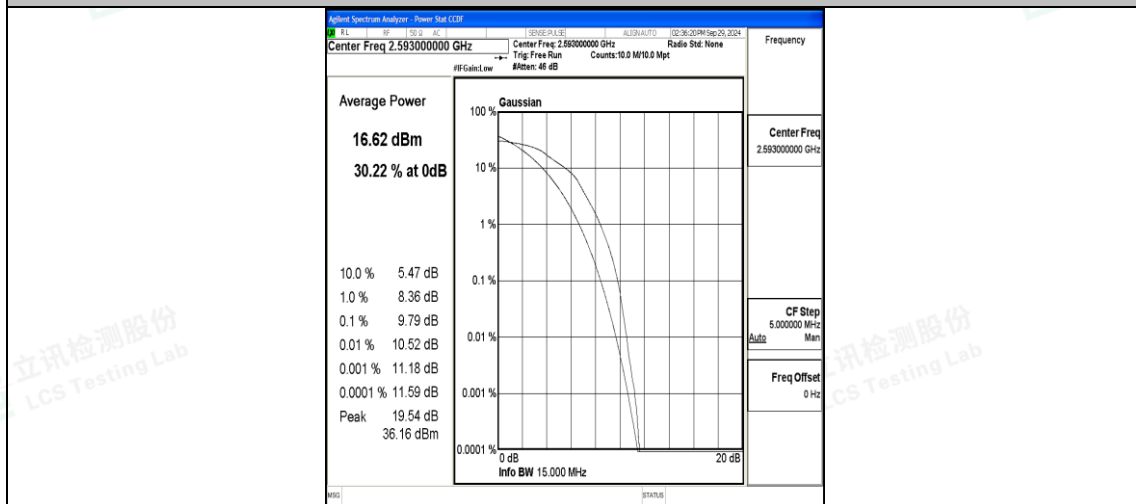
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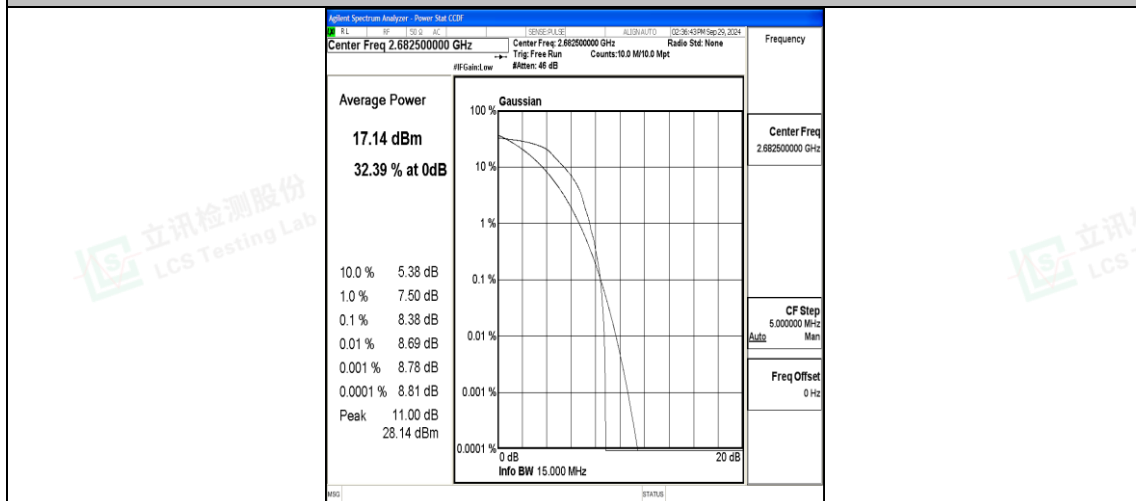
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Band41-15MHz-16QAM-40620-75RB#0-PASS



Band41-15MHz-QPSK-41515-1RB#0-PASS

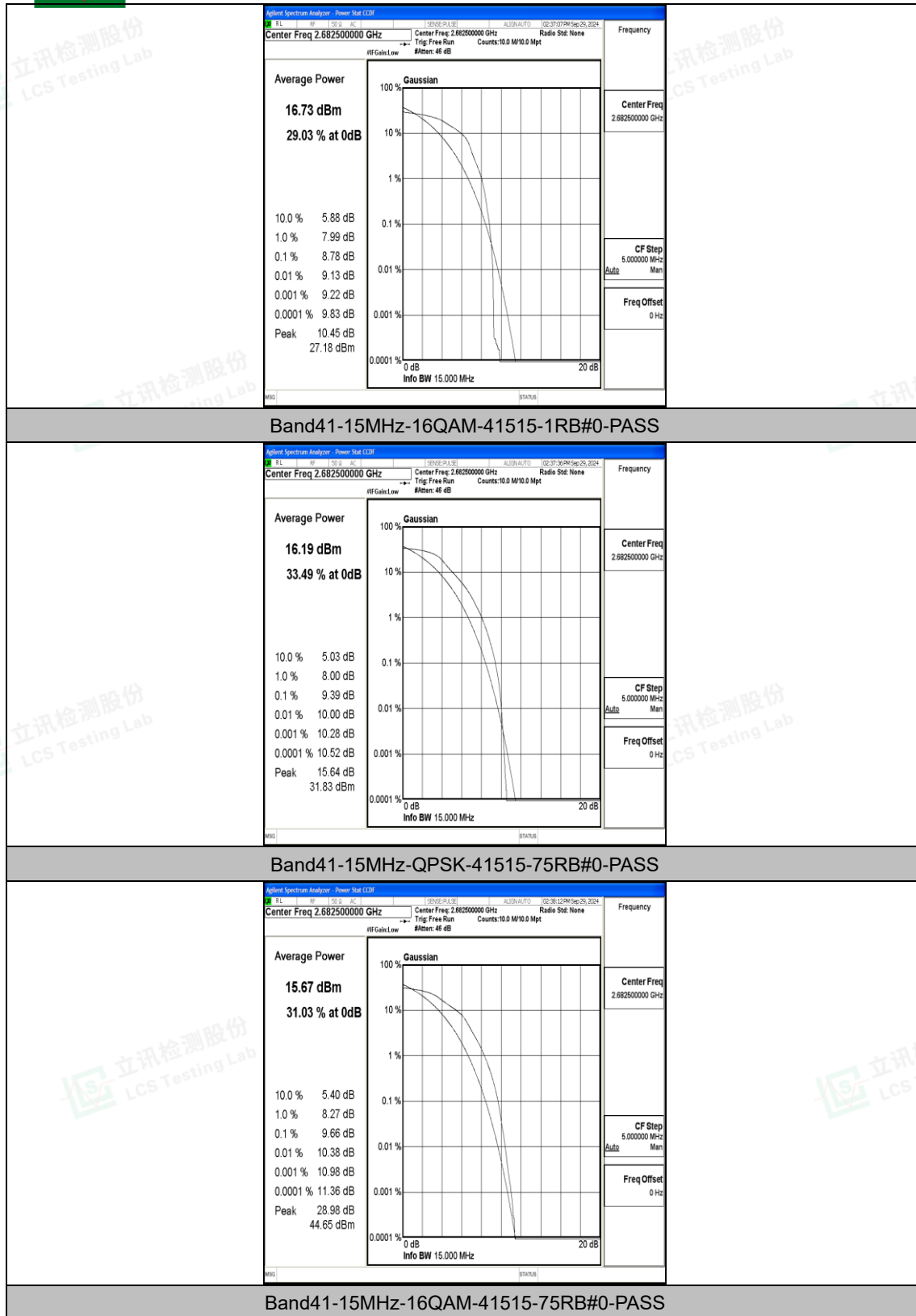


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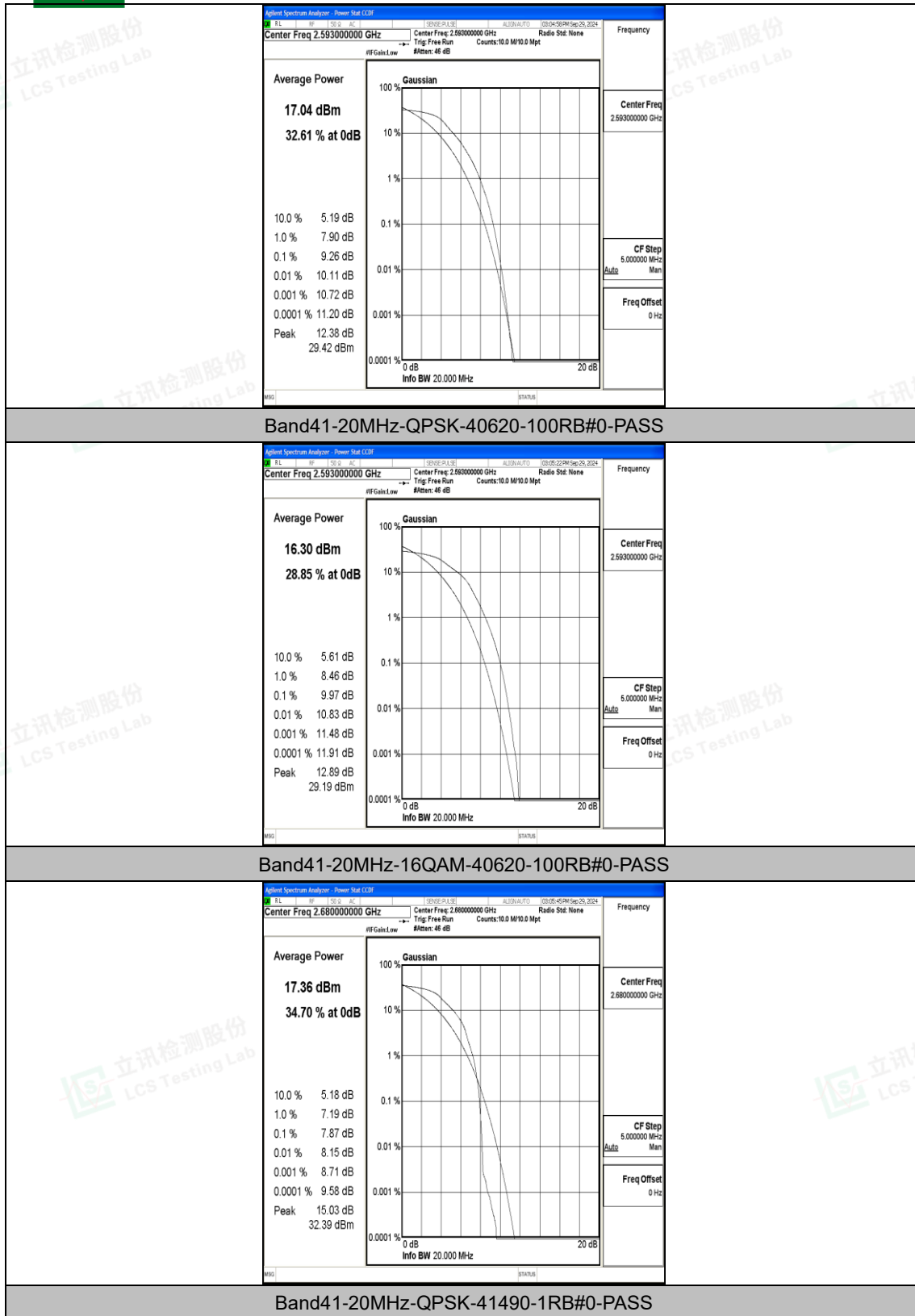


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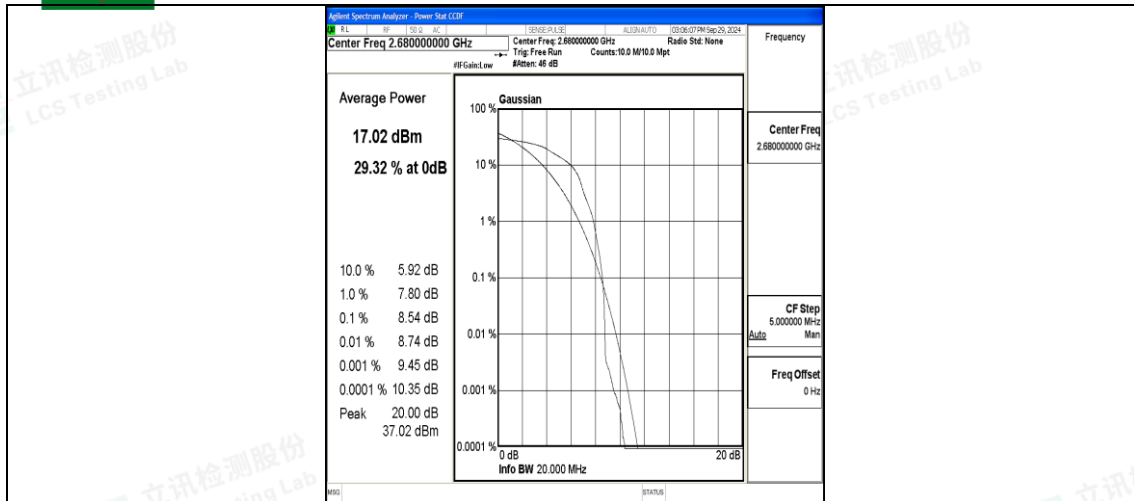


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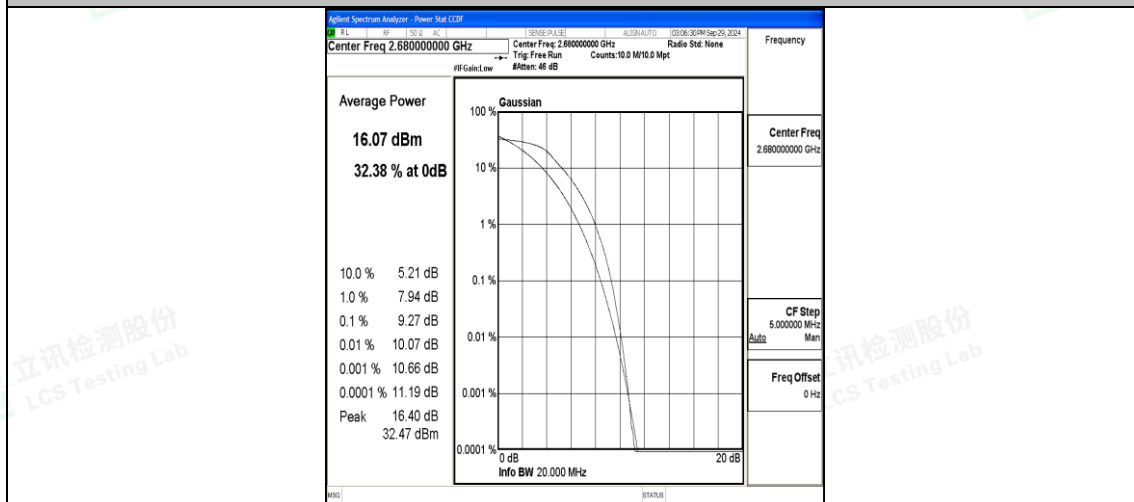
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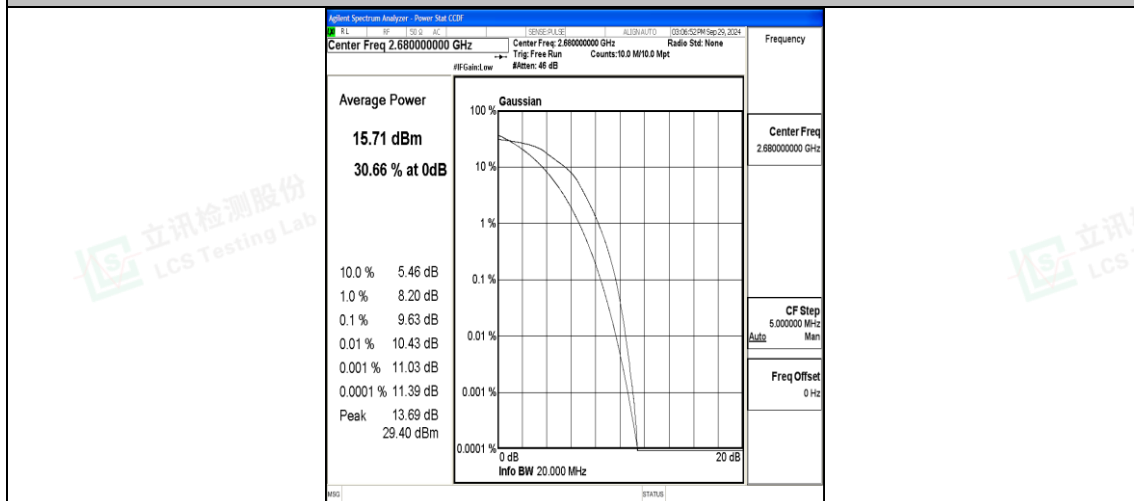
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Band41-20MHz-16QAM-41490-1RB#0-PASS



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



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



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O.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	4.5024	5.271	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.5275	5.317	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5163	5.069	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.5028	5.285	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4956	5.171	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.5067	5.171	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9978	9.839	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9807	10.19	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9833	10.10	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9564	10.10	PASS
Band41	10MHz	QPSK	41540	50RB#0	9.0111	10.29	PASS
Band41	10MHz	16QAM	41540	50RB#0	9.0063	10.93	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.568	15.49	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.484	15.17	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.402	15.71	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.424	15.01	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.512	15.86	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.509	15.46	PASS
Band41	20MHz	QPSK	39750	100RB#0	18.018	20.85	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.807	20.61	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.936	20.21	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.934	20.94	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.870	19.97	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.994	20.03	PASS



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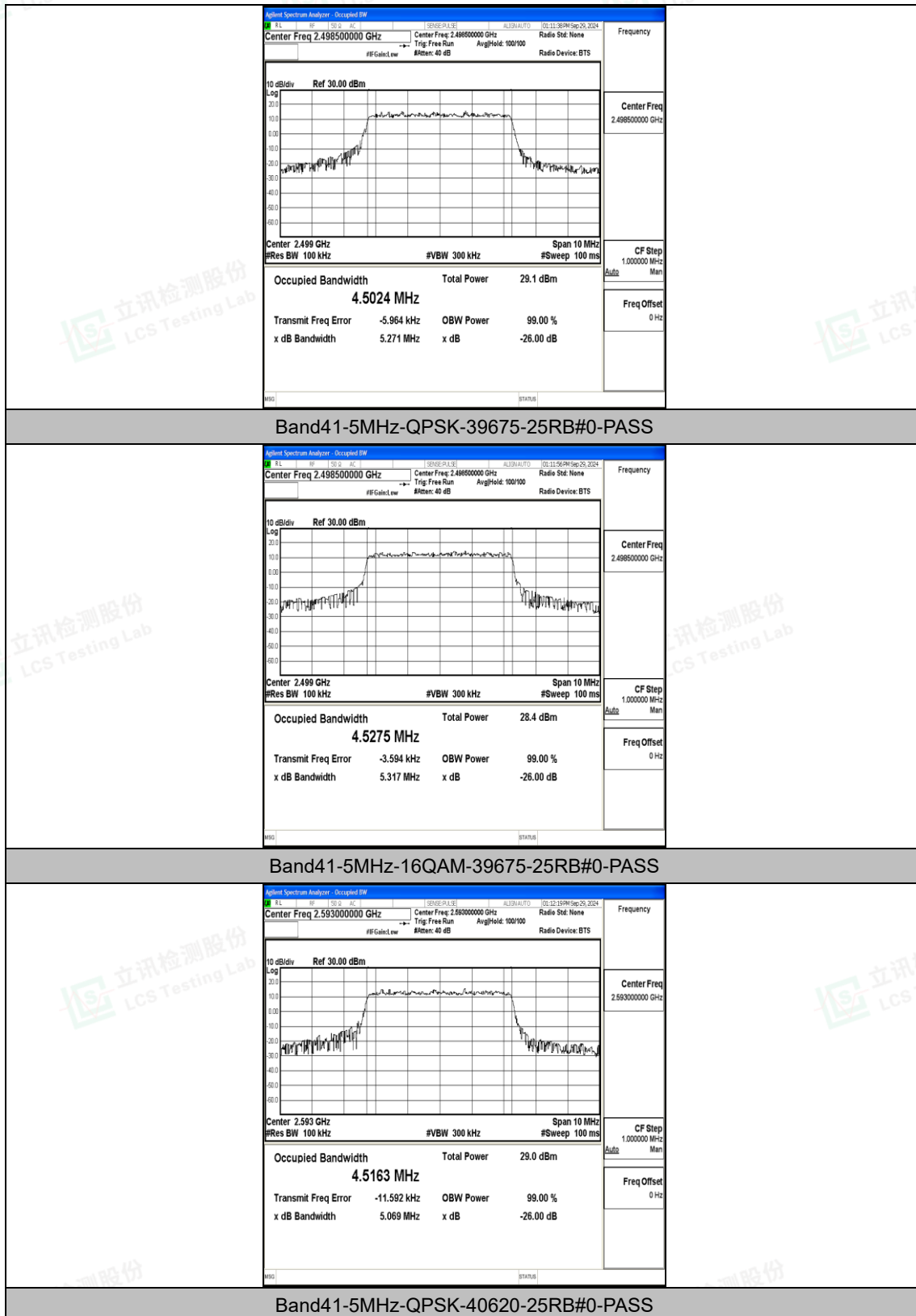
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Test Graphs

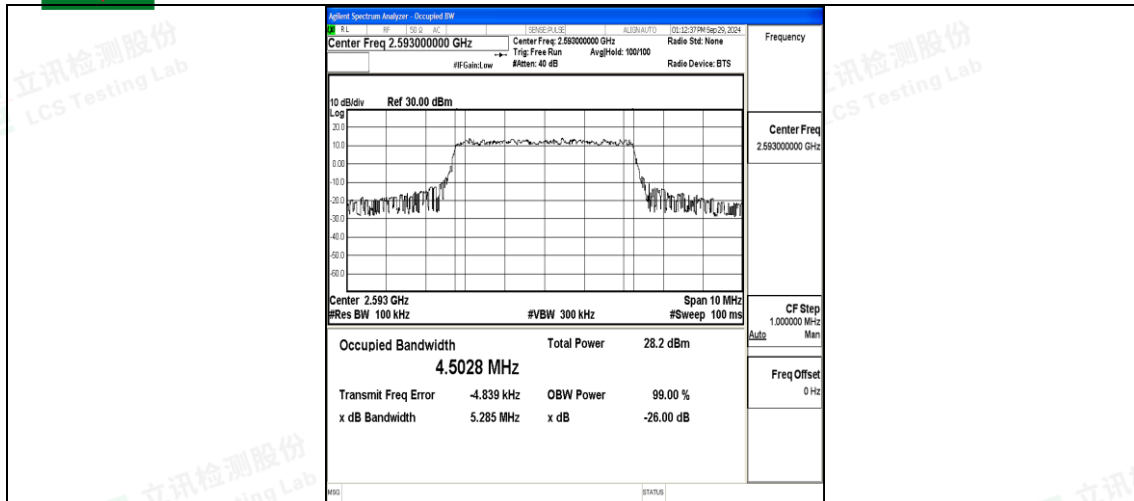


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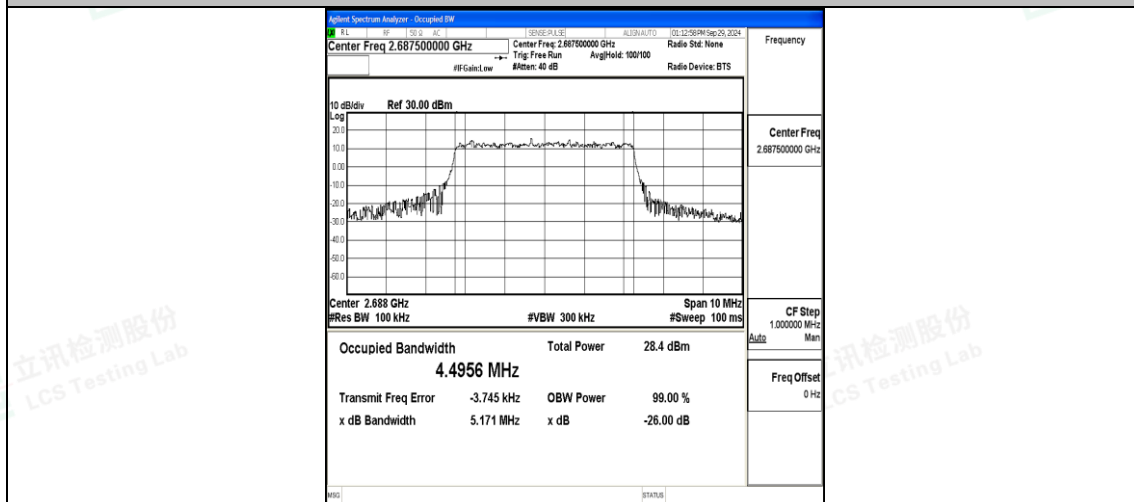
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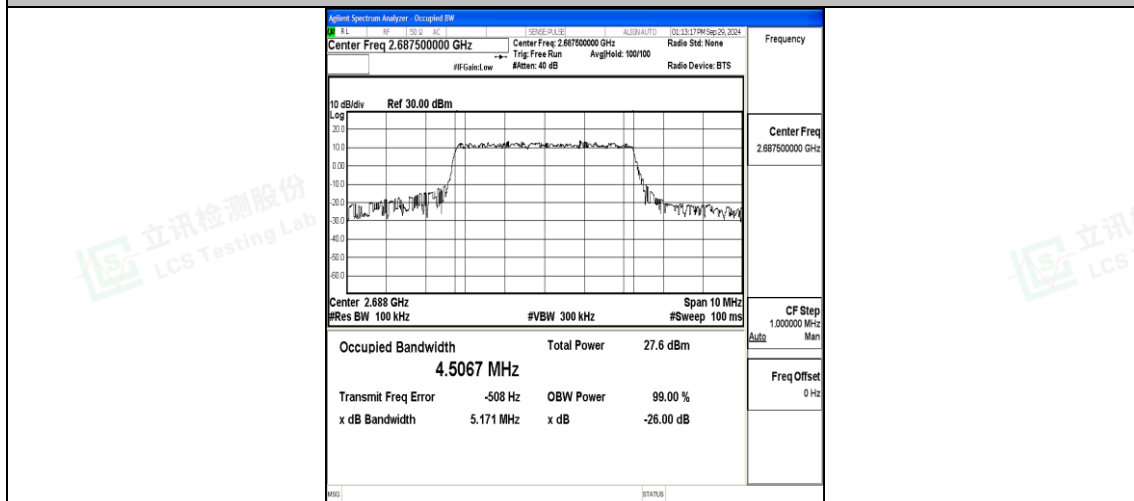
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Band41-5MHz-16QAM-40620-25RB#0-PASS



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



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

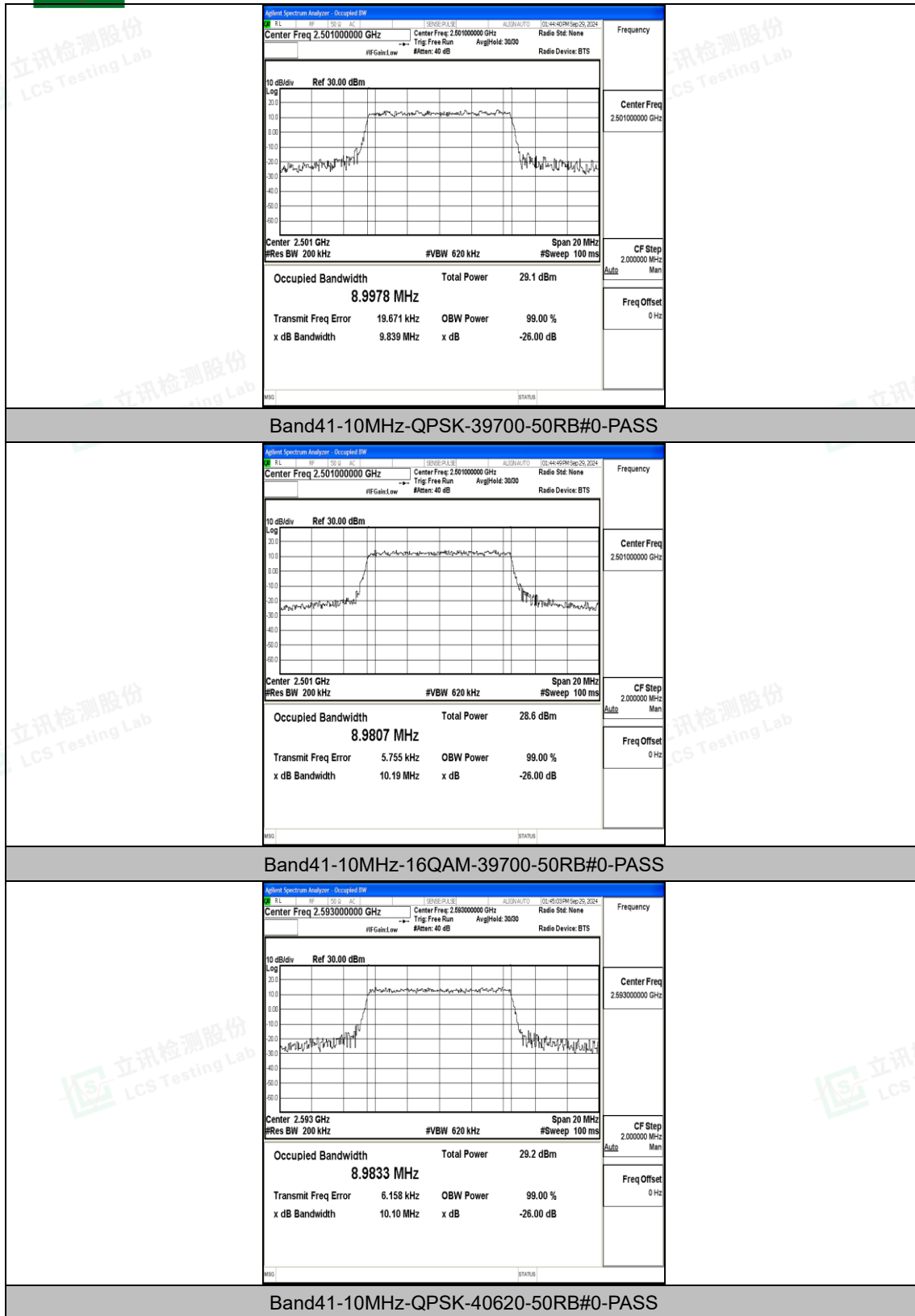


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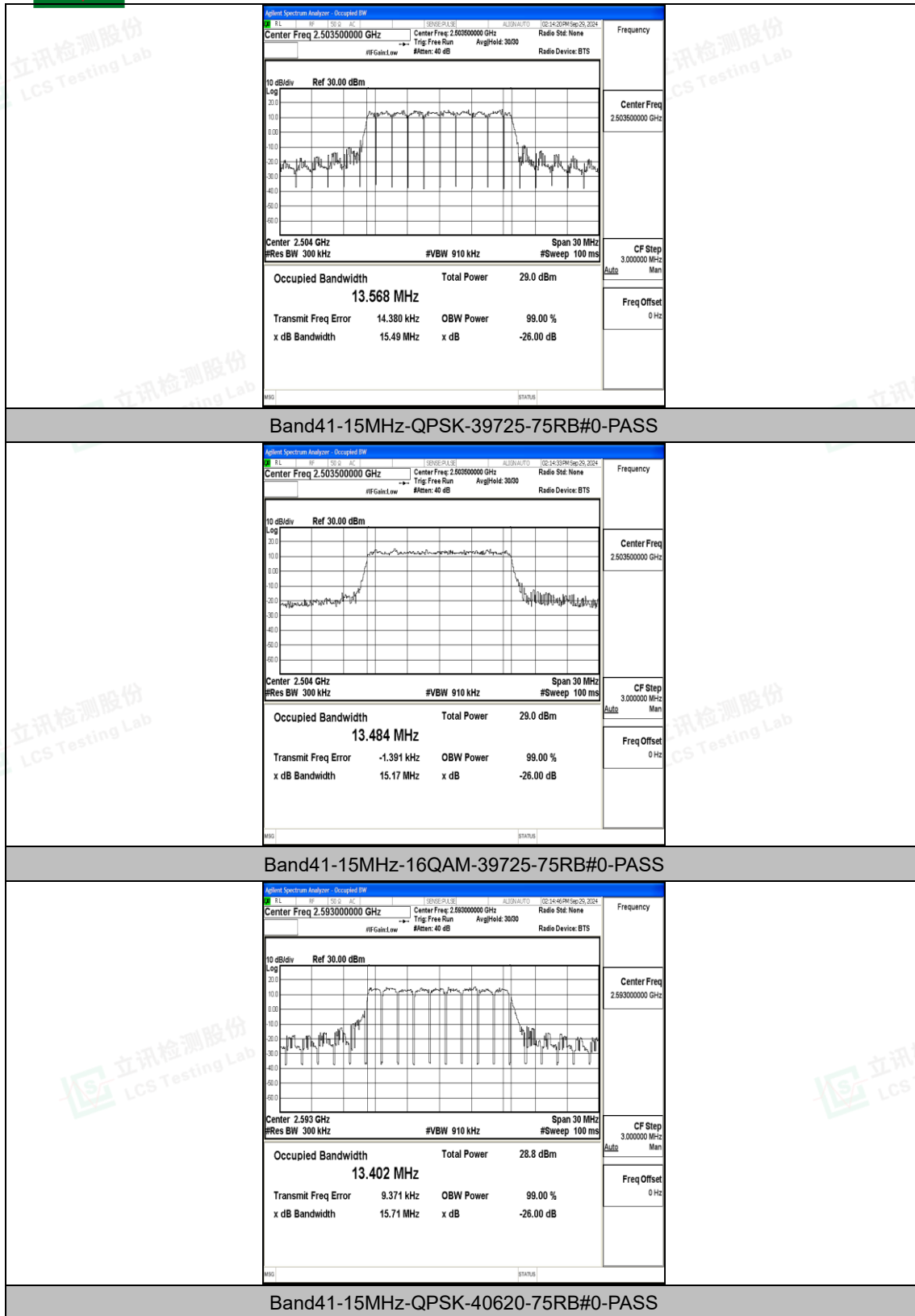


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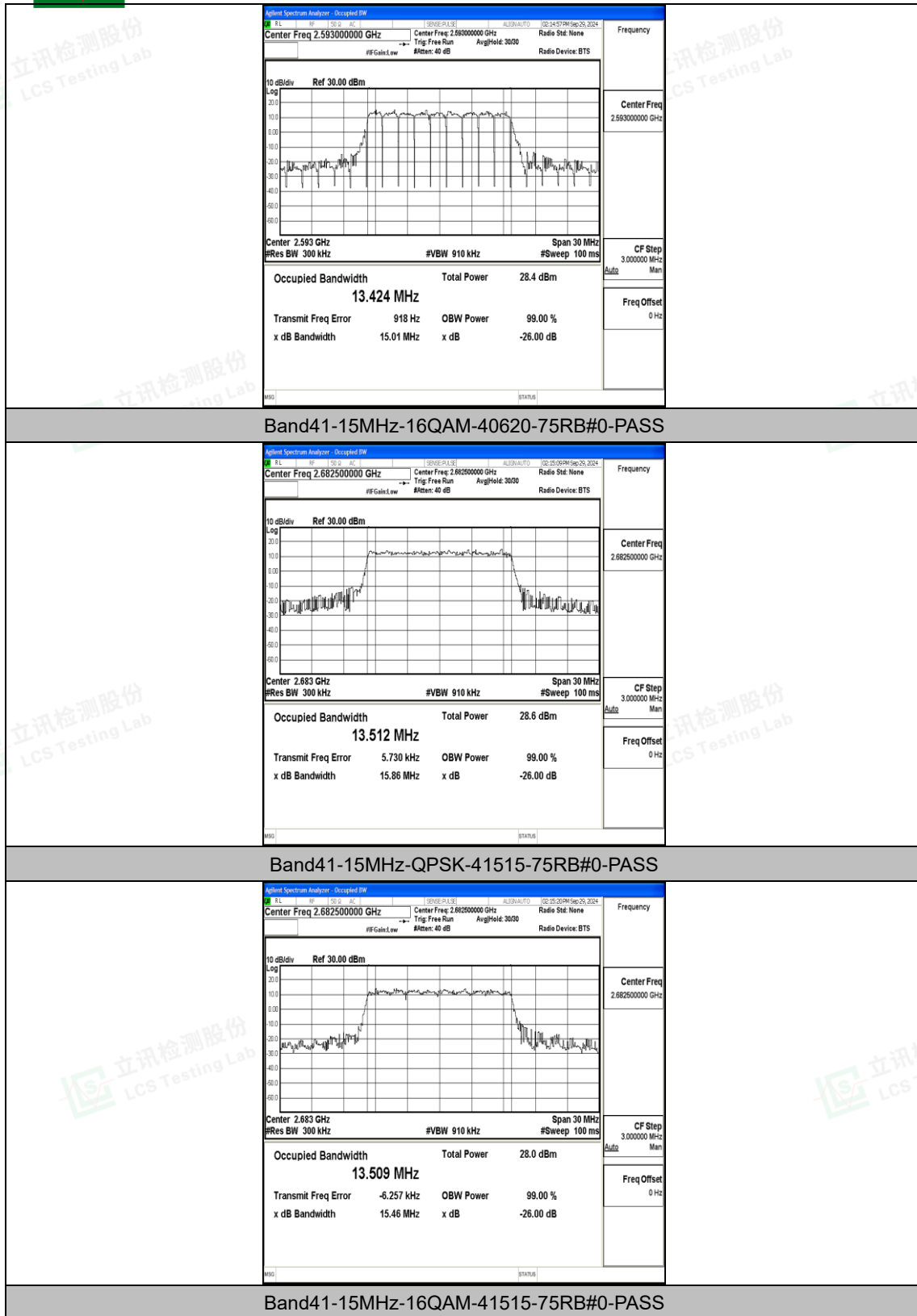


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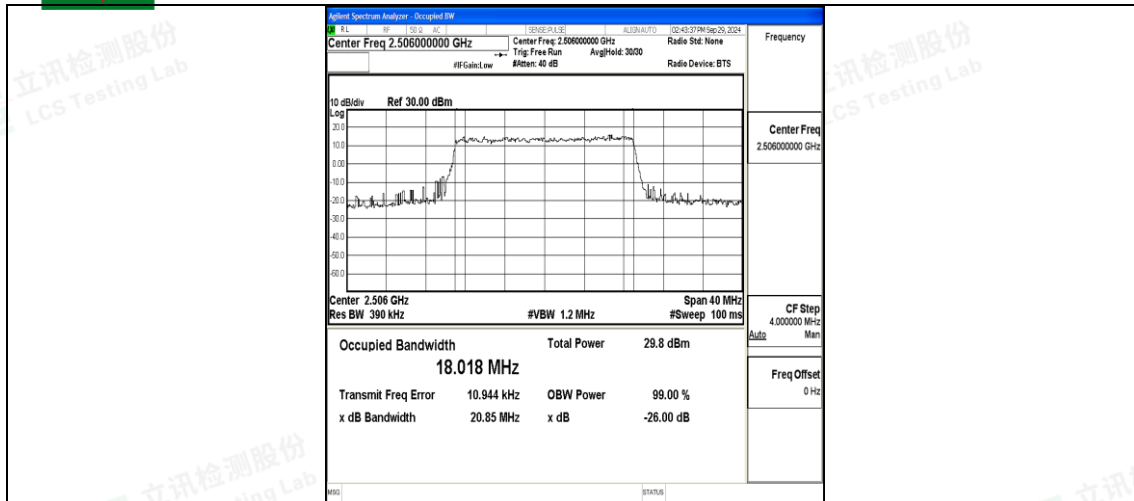


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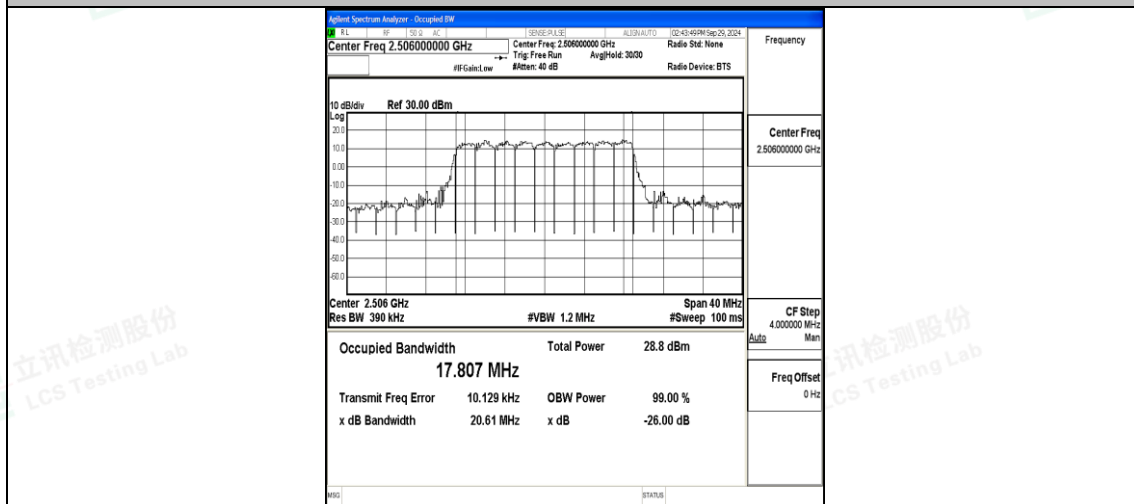
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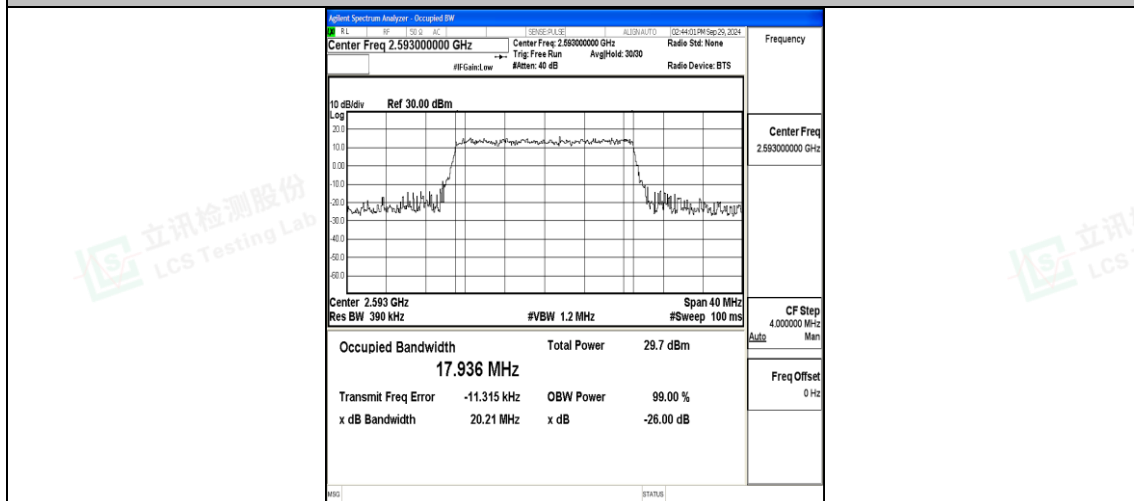
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Band41-20MHz-QPSK-39750-100RB#0-PASS



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



Band41-20MHz-QPSK-40620-100RB#0-PASS

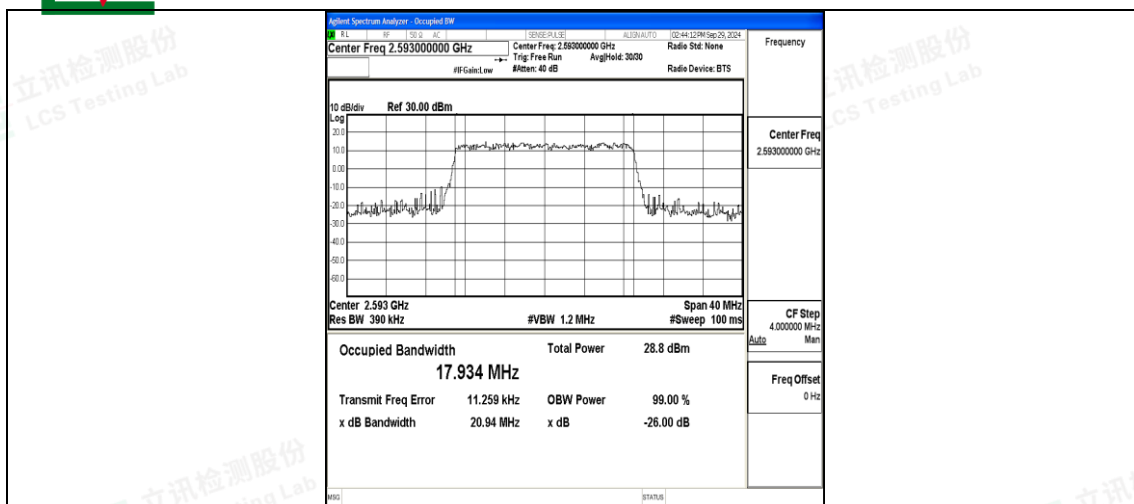


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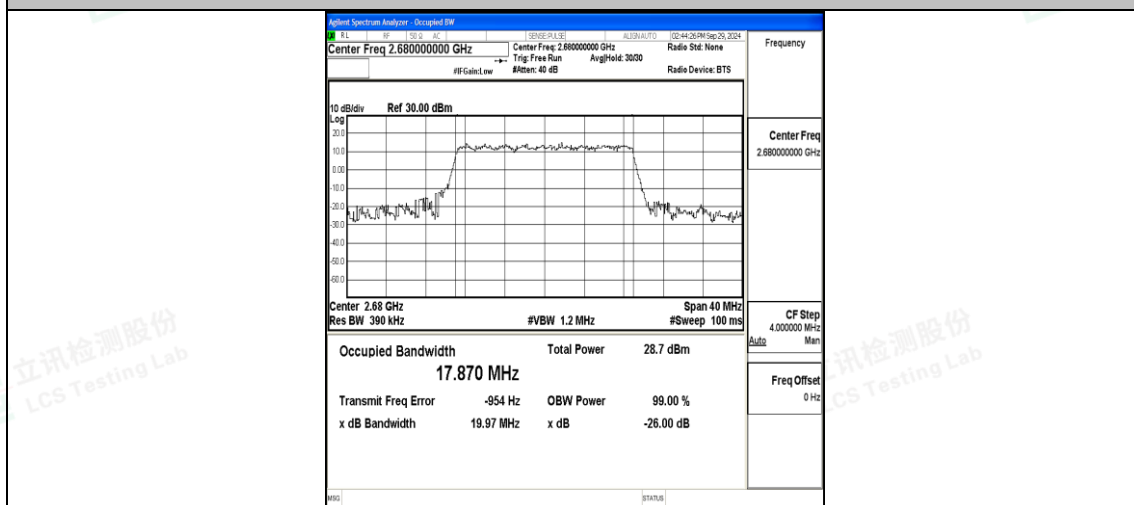
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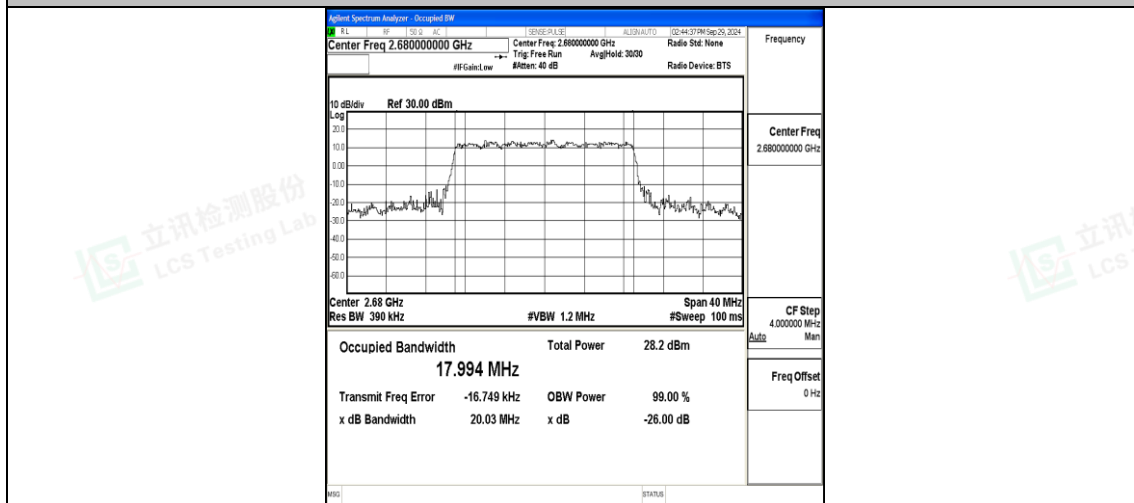
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Band41-20MHz-16QAM-40620-100RB#0-PASS



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



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



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O.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	2490.43	-42.82	PASS
Band41	5MHz	16QAM	39675	25RB#0	2490.41	-42.86	PASS
Band41	5MHz	QPSK	41565	25RB#0	2696.12	-44.49	PASS
Band41	5MHz	16QAM	41565	25RB#0	2696.07	-45.30	PASS
Band41	10MHz	QPSK	39700	50RB#0	2490.38	-36.31	PASS
Band41	10MHz	16QAM	39700	50RB#0	2490.41	-37.11	PASS
Band41	10MHz	QPSK	41540	50RB#0	2700.48	-40.85	PASS
Band41	10MHz	16QAM	41540	50RB#0	2700.18	-41.50	PASS
Band41	15MHz	QPSK	39725	75RB#0	2489.73	-33.87	PASS
Band41	15MHz	16QAM	39725	75RB#0	2489.40	-33.81	PASS
Band41	15MHz	QPSK	41515	75RB#0	2706.15	-39.51	PASS
Band41	15MHz	16QAM	41515	75RB#0	2706.08	-39.95	PASS
Band41	20MHz	QPSK	39750	100RB#0	2489.32	-33.33	PASS
Band41	20MHz	16QAM	39750	100RB#0	2489.46	-33.45	PASS
Band41	20MHz	QPSK	41490	100RB#0	2710.01	-39.90	PASS
Band41	20MHz	16QAM	41490	100RB#0	2710.59	-40.60	PASS



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Test Graphs



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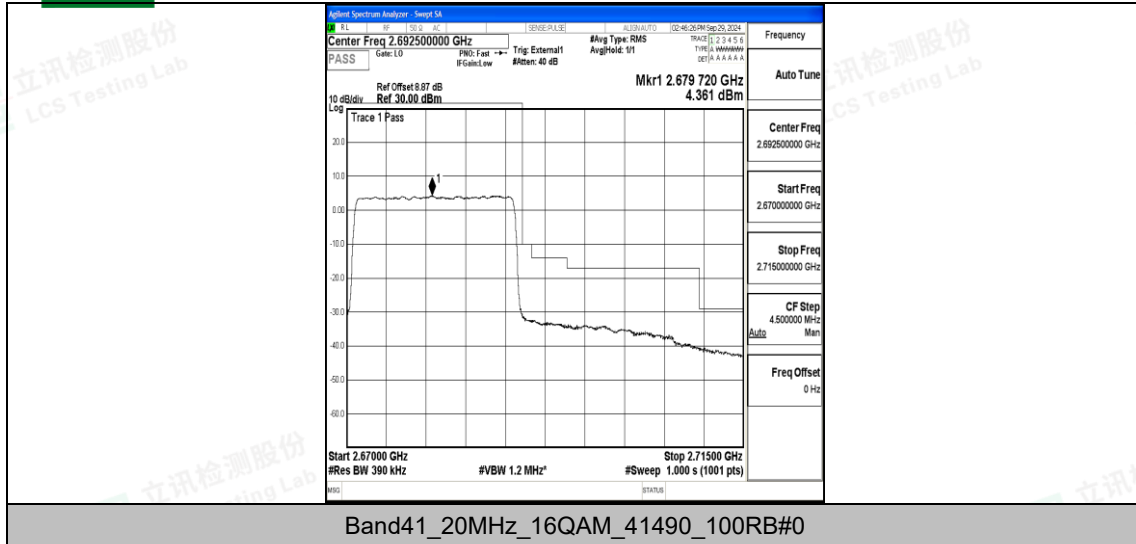


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