



Appendix K: Test Data for E-UTRA Band 7

Product Name: mobile phone

Test Model: F31

Environmental Conditions

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



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K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.45	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.32	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.55	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.43	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.43	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.33	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.44	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.46	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.44	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.40	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.51	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.45	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.45	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.51	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.35	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.48	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.50	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.55	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.38	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.45	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.41	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.46	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.48	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.48	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.45	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.46	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.44	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.44	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.37	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.52	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.39	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.38	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.28	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.56	PASS



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Band17	5MHz	16QAM	23825	12RB#0	21.56	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.52	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.58	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.46	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.48	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.47	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.59	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.44	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.47	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.63	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.59	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.40	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.44	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.44	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.44	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.44	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.48	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.43	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.42	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.52	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.56	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.51	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.35	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.59	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.46	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.48	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.32	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.52	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.54	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.52	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.54	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.45	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.51	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.45	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.51	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.46	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.23	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.63	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.38	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.44	PASS



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Band17	10MHz	16QAM	23800	1RB#49	22.22	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.54	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.56	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.50	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.56	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.49	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.54	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.47	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.52	PASS





K.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.01	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.55	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.56	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.19	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.85	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.43	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.56	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.19	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	5.02	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.69	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.60	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.24	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.89	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.74	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.52	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.21	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.77	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.56	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.50	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.25	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.72	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.85	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.54	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.23	13	PASS



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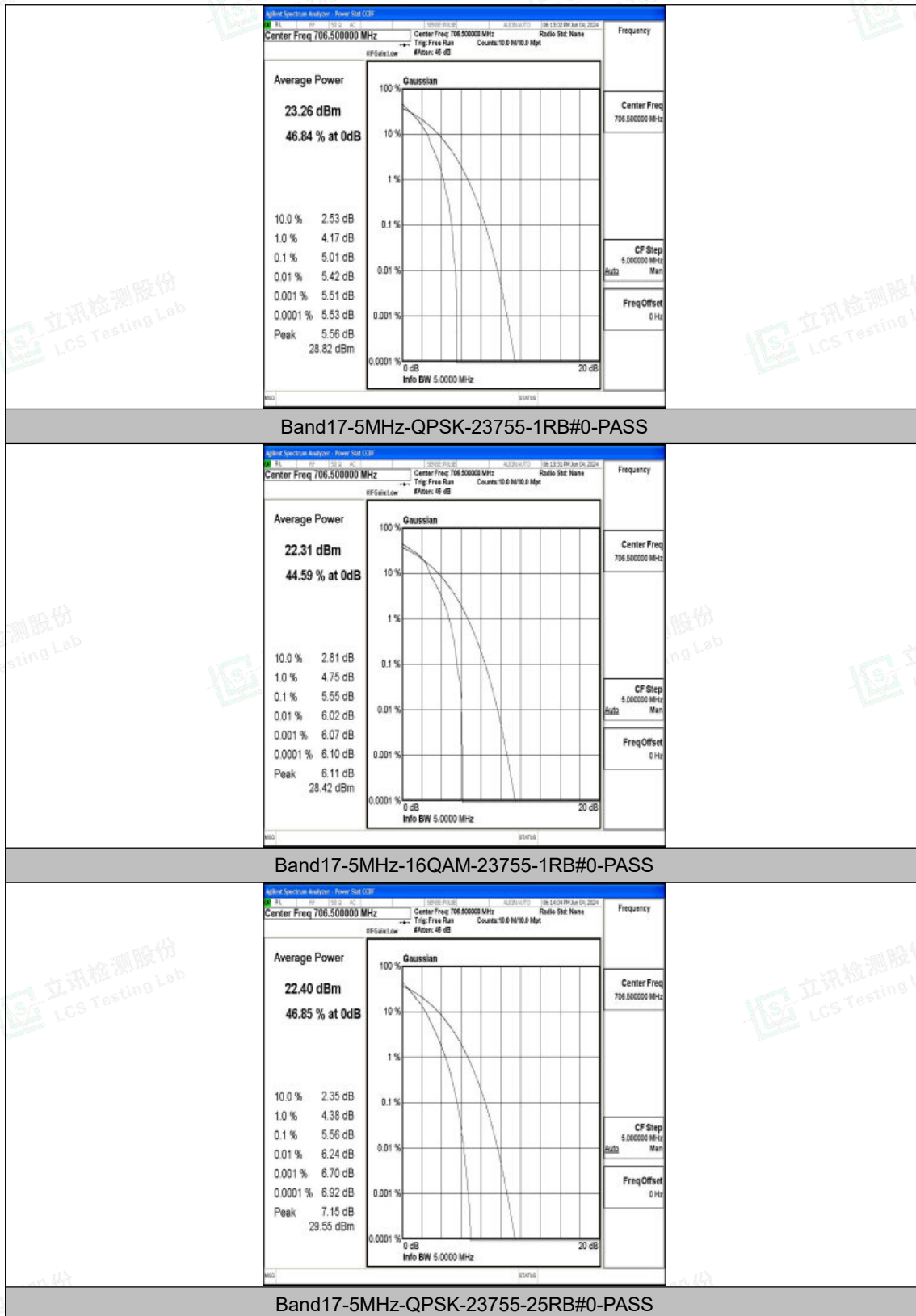
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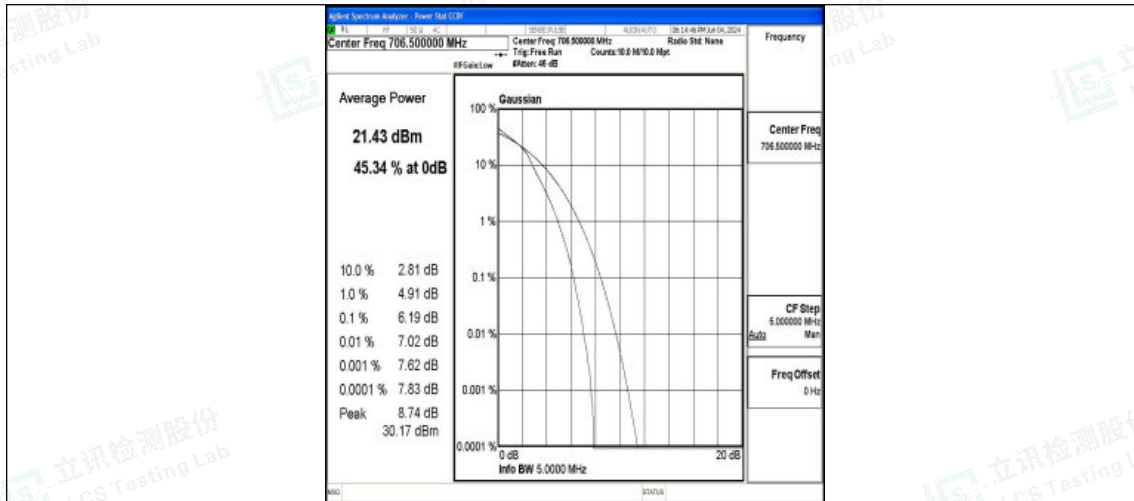
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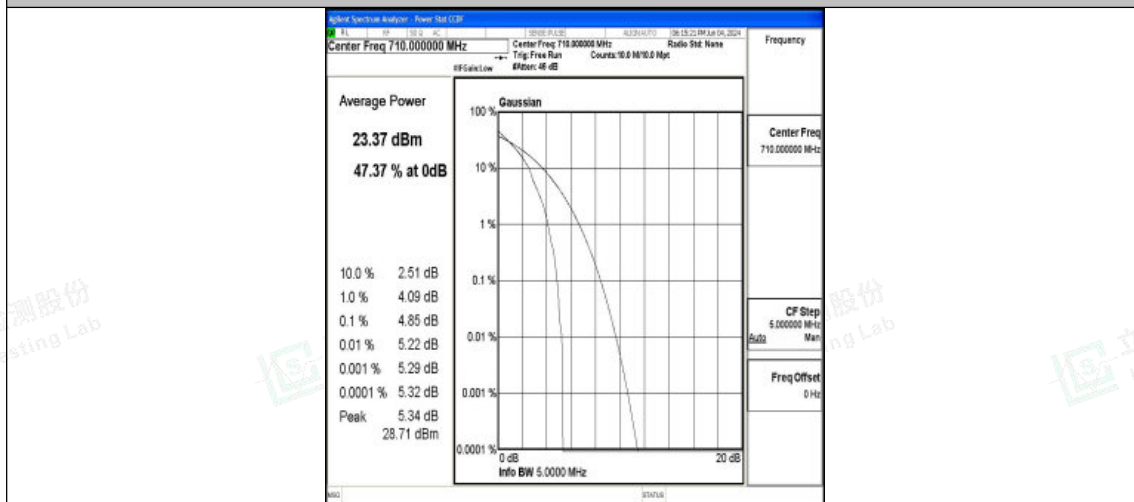


Test Graphs

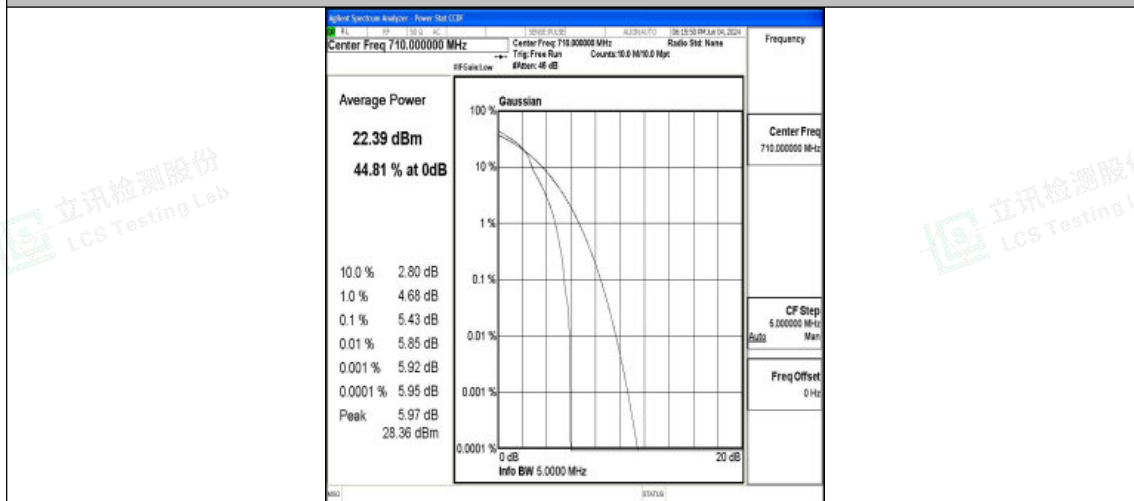




Band17-5MHz-16QAM-23755-25RB#0-PASS



Band17-5MHz-QPSK-23790-1RB#0-PASS



Band17-5MHz-16QAM-23790-1RB#0-PASS

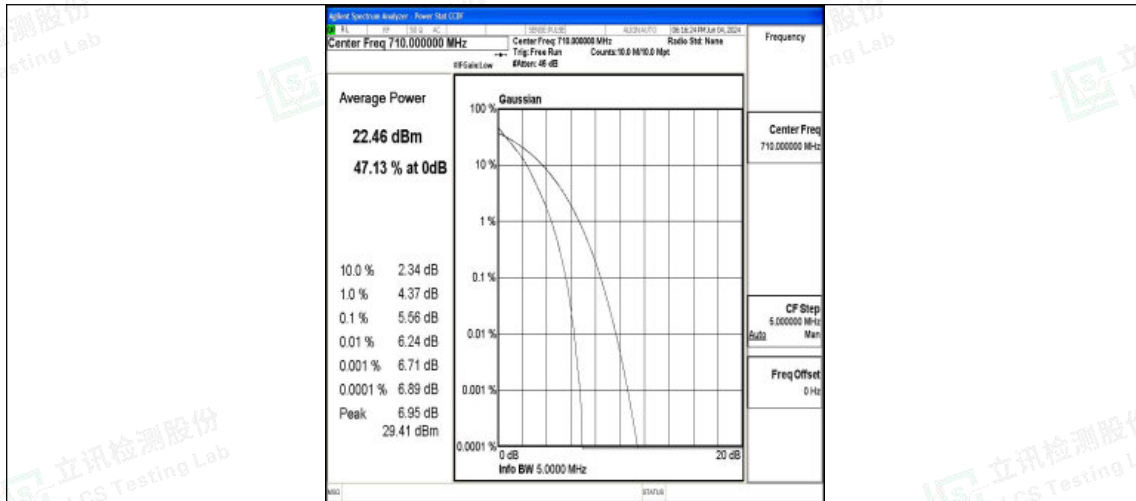


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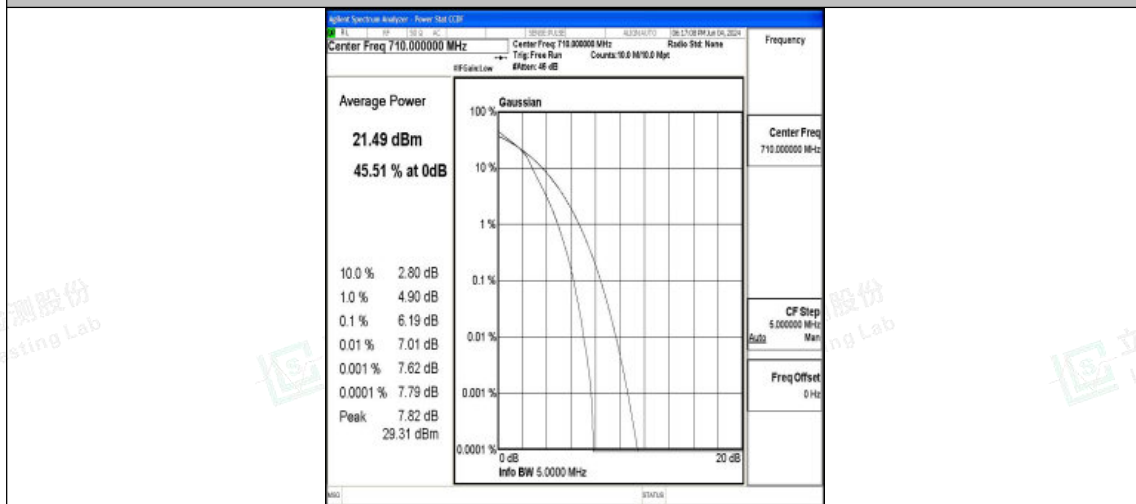
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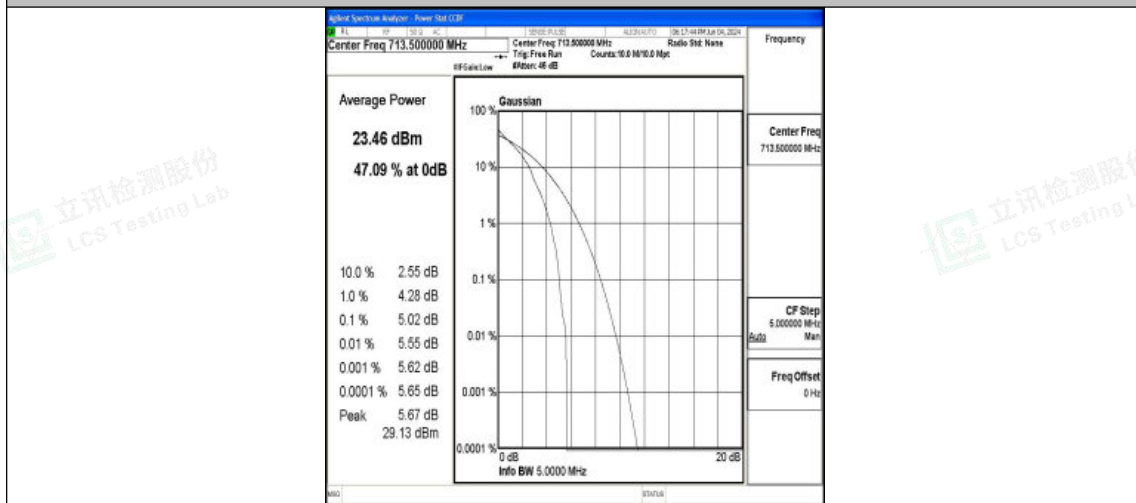
Scan code to check authenticity



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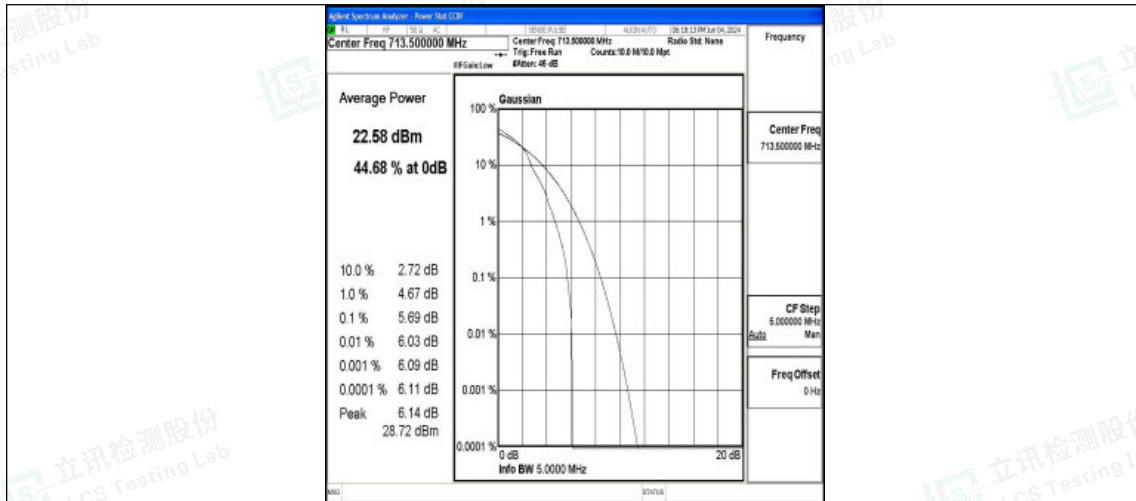


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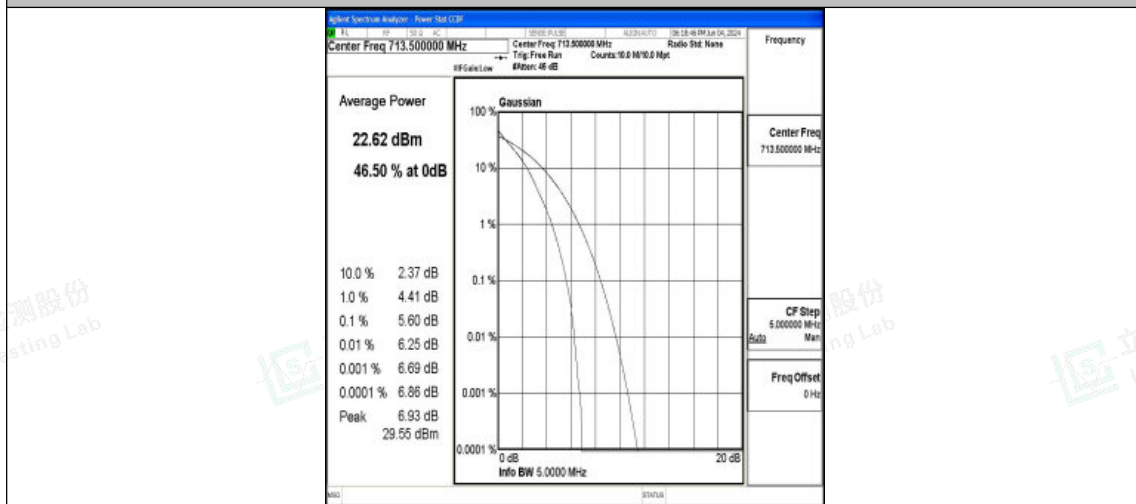


Band17-5MHz-QPSK-23825-1RB#0-PASS

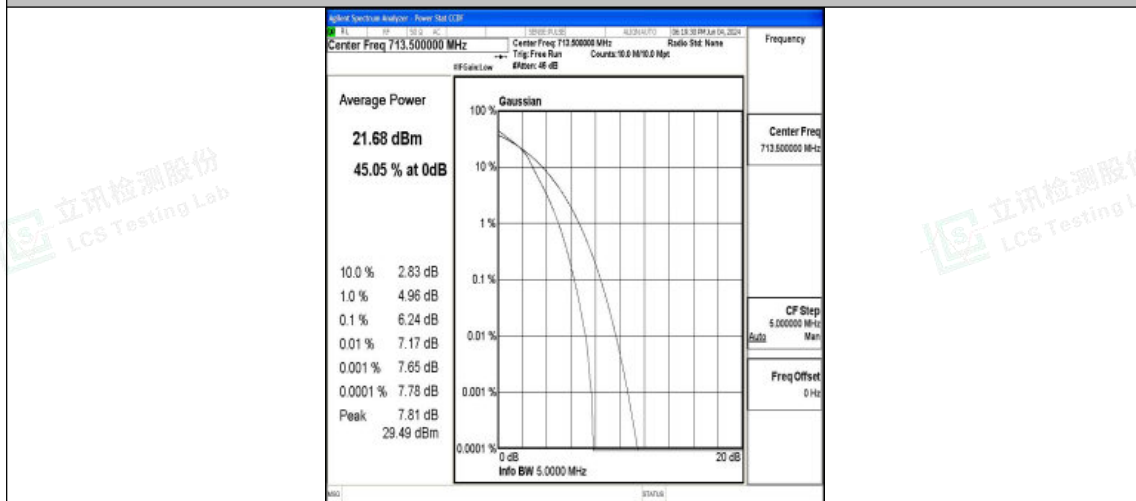




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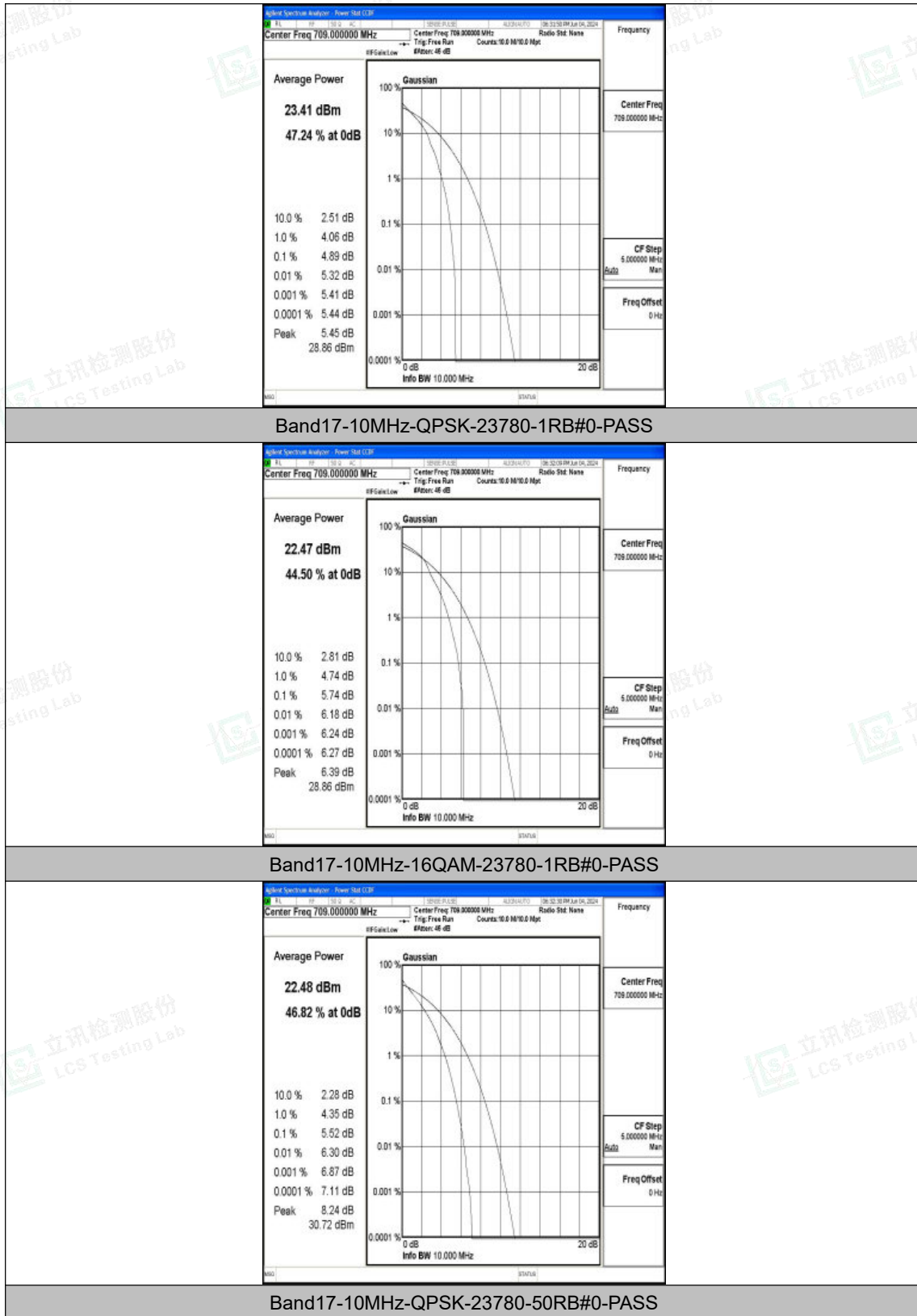


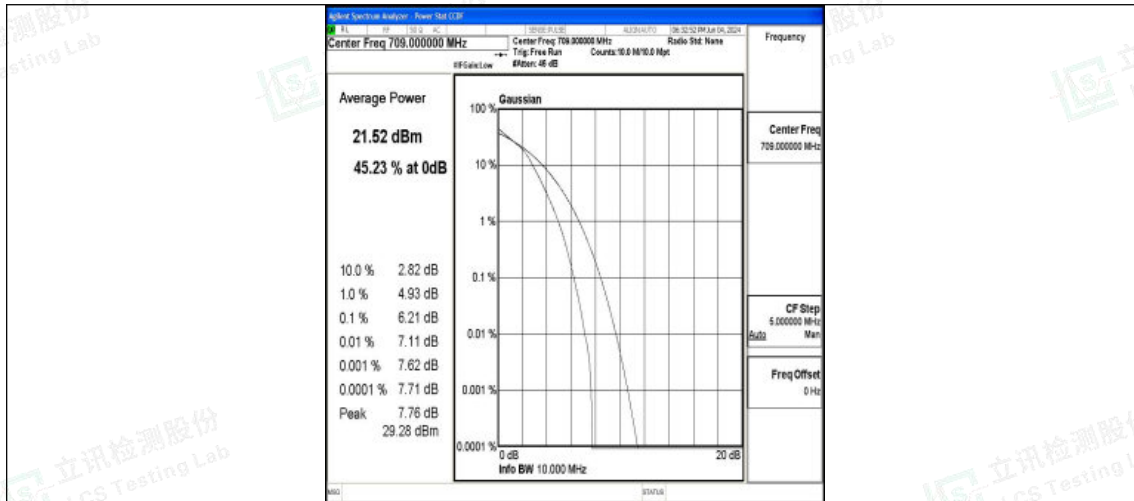
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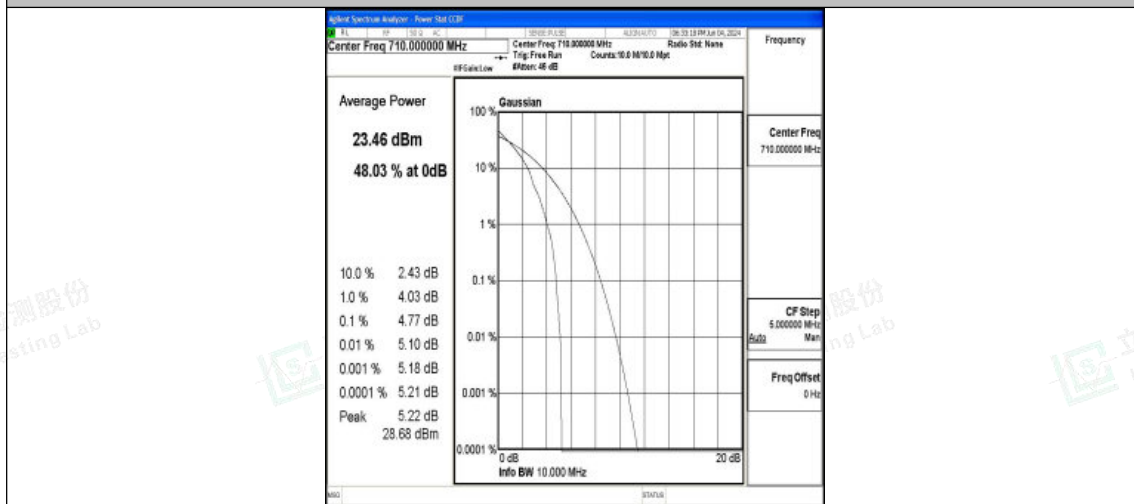
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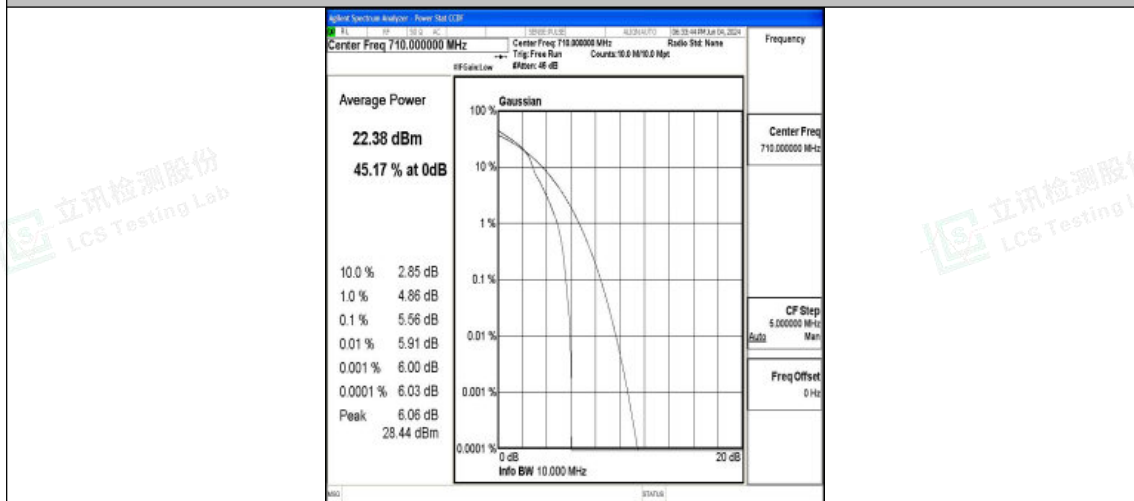




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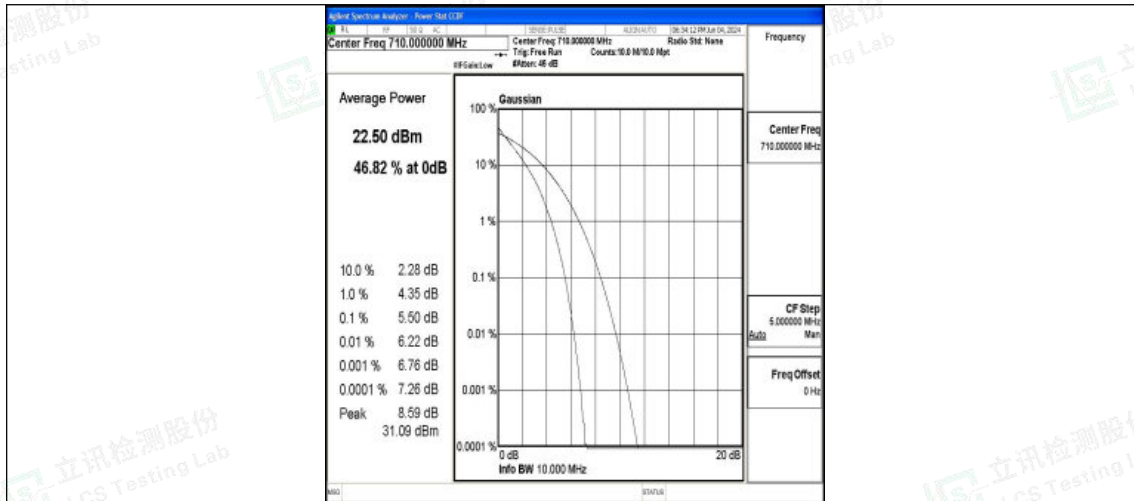


Band17-10MHz-QPSK-23790-1RB#0-PASS

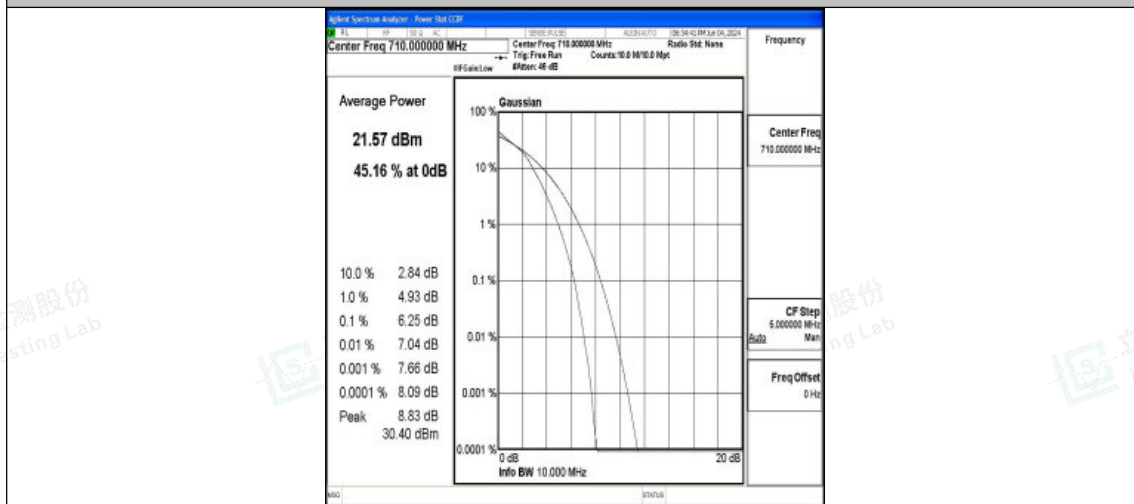


Band17-10MHz-16QAM-23790-1RB#0-PASS

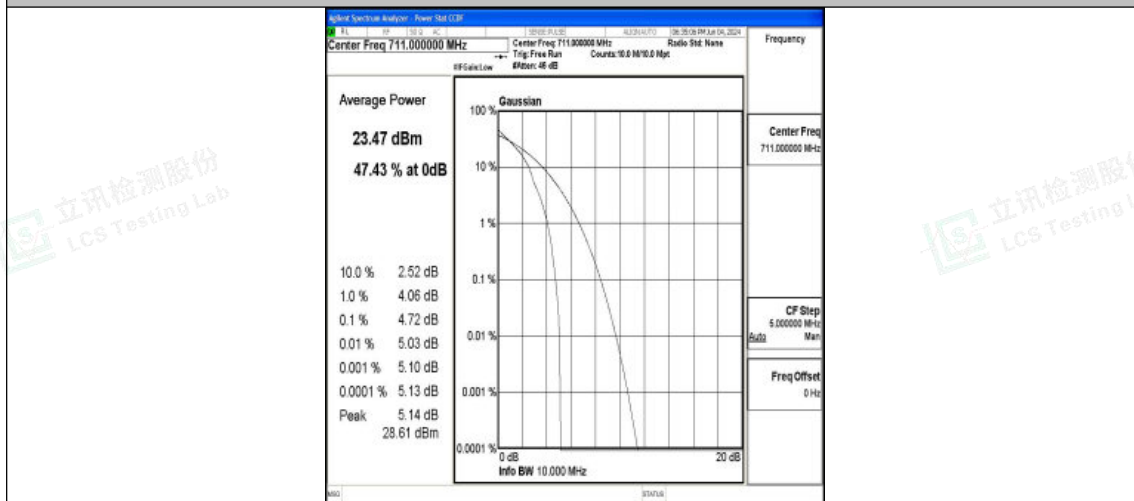




Band17-10MHz-QPSK-23790-50RB#0-PASS

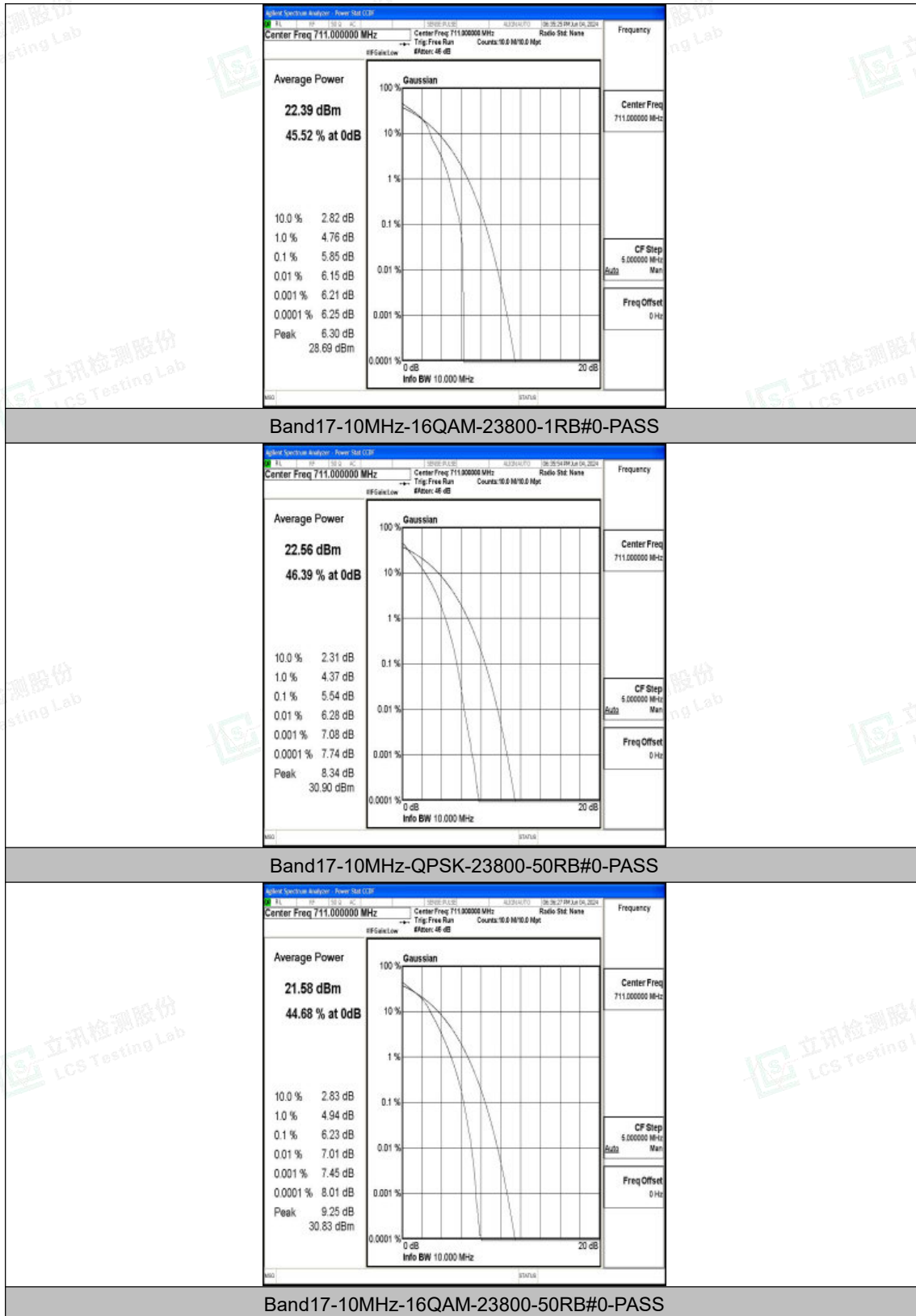


Band17-10MHz-16QAM-23790-50RB#0-PASS



Band17-10MHz-QPSK-23800-1RB#0-PASS







K.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5161	5.166	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5250	5.114	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5160	5.182	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5039	5.093	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5147	5.131	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5301	5.208	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0001	10.08	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0134	10.04	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0220	10.93	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9915	10.05	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9880	10.94	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9822	10.02	PASS





Test Graphs

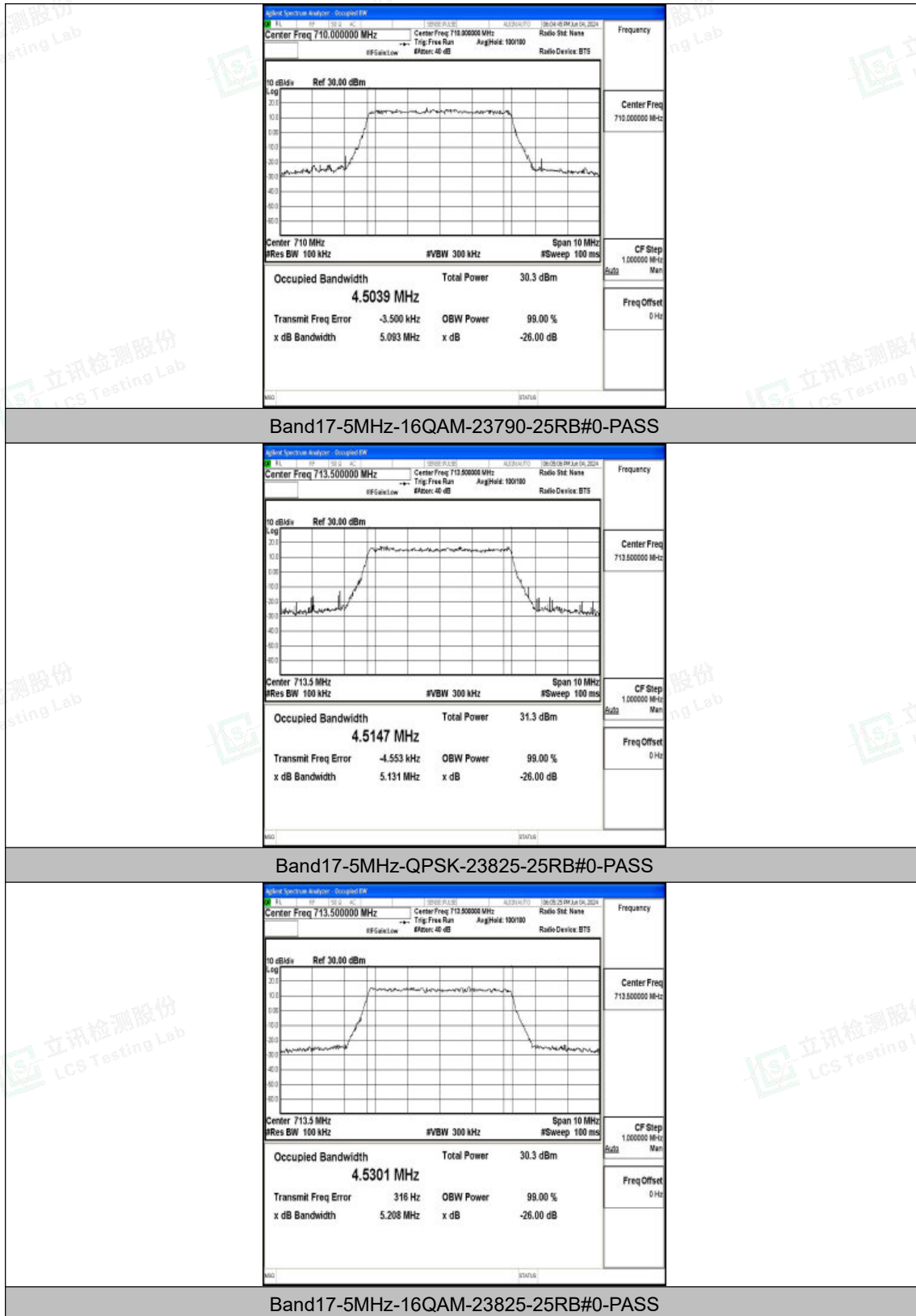


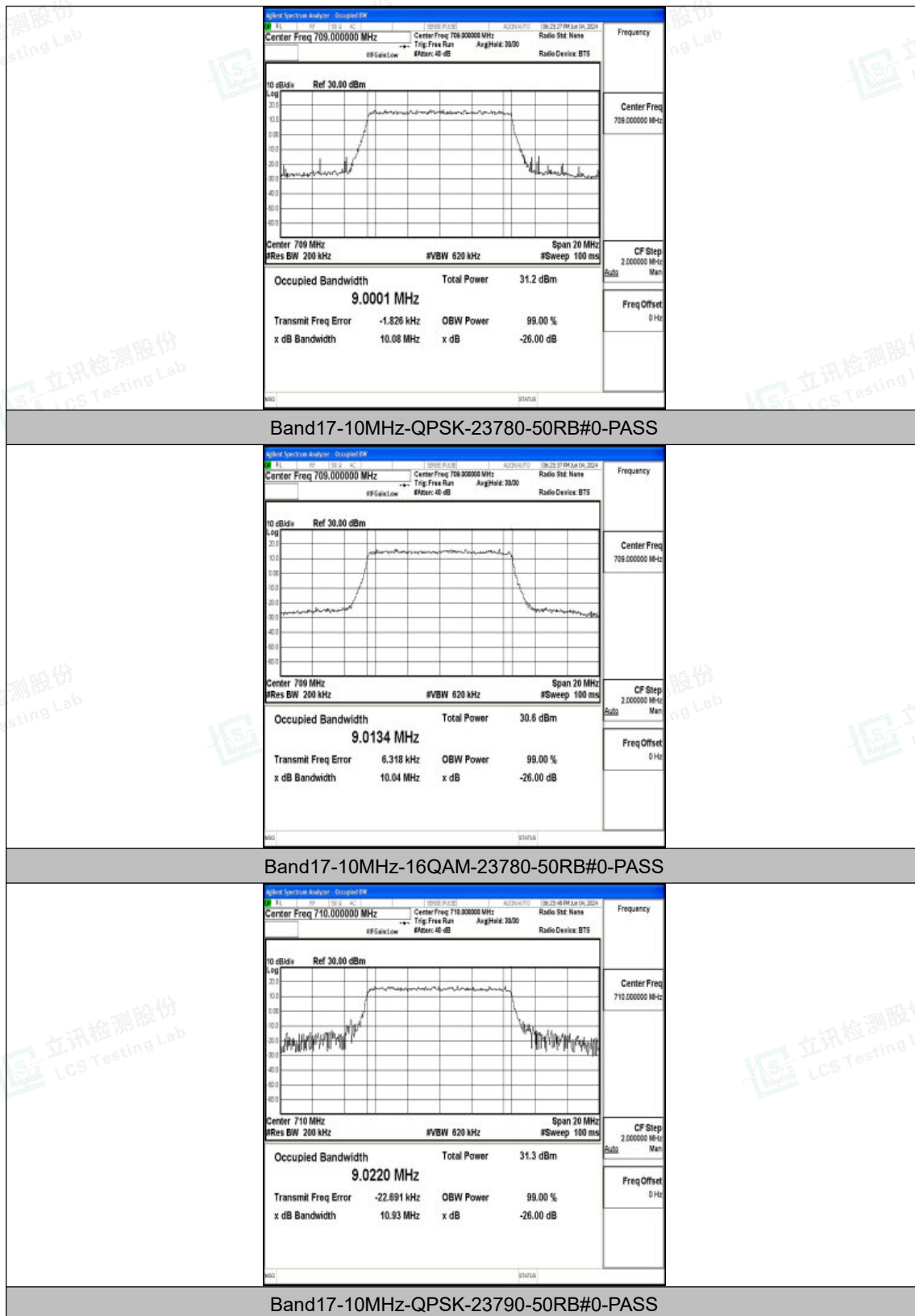
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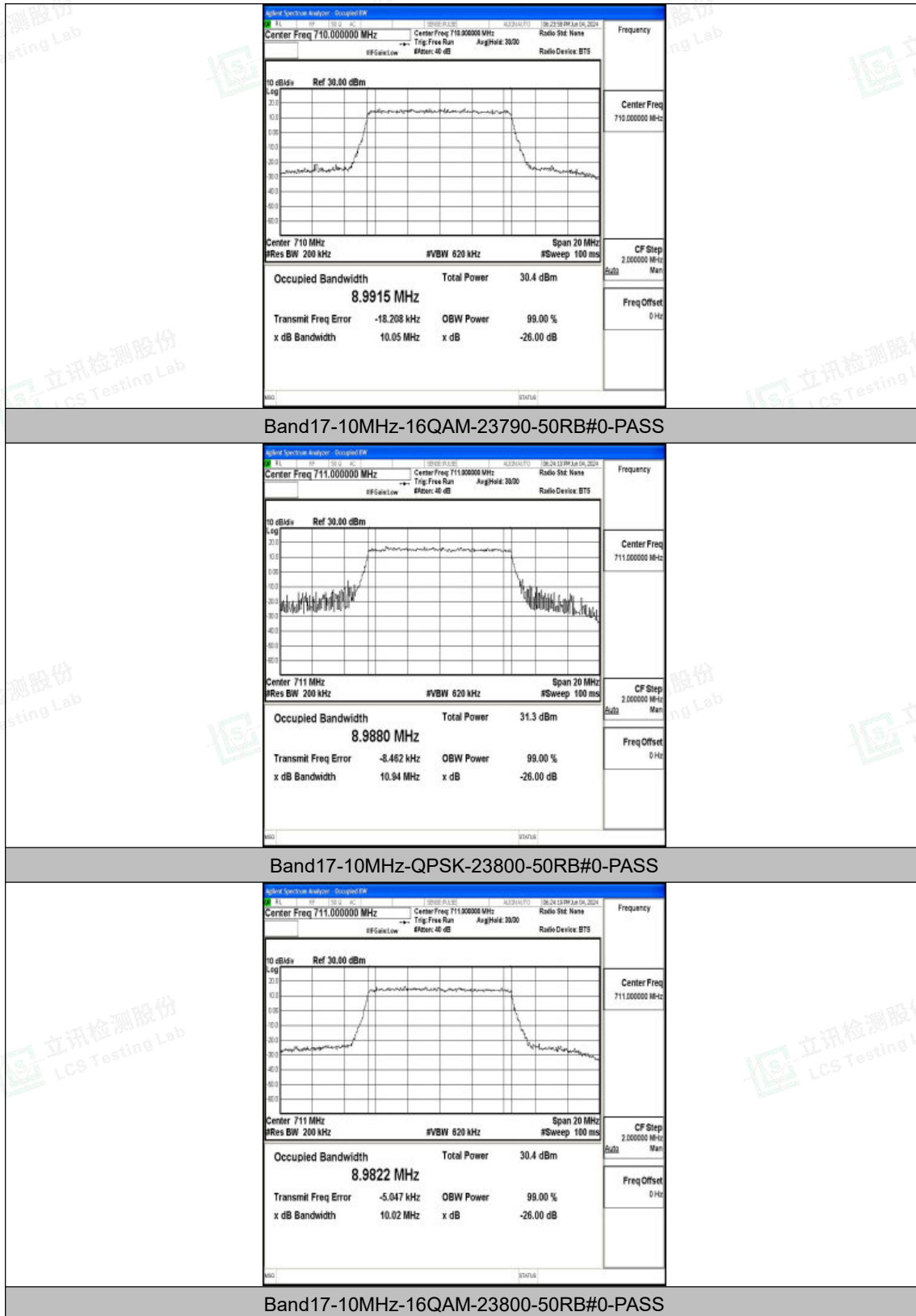
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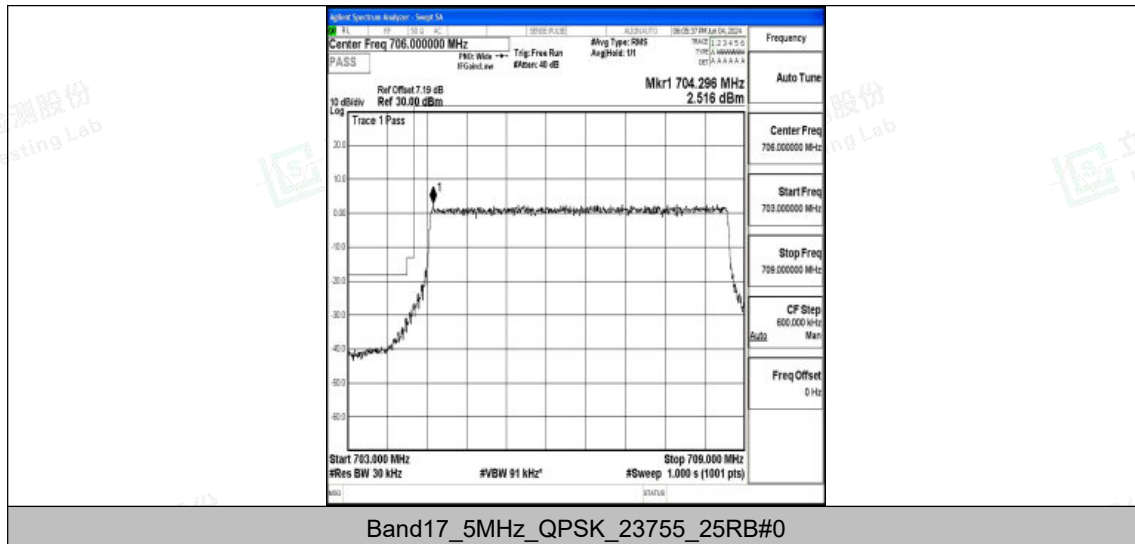


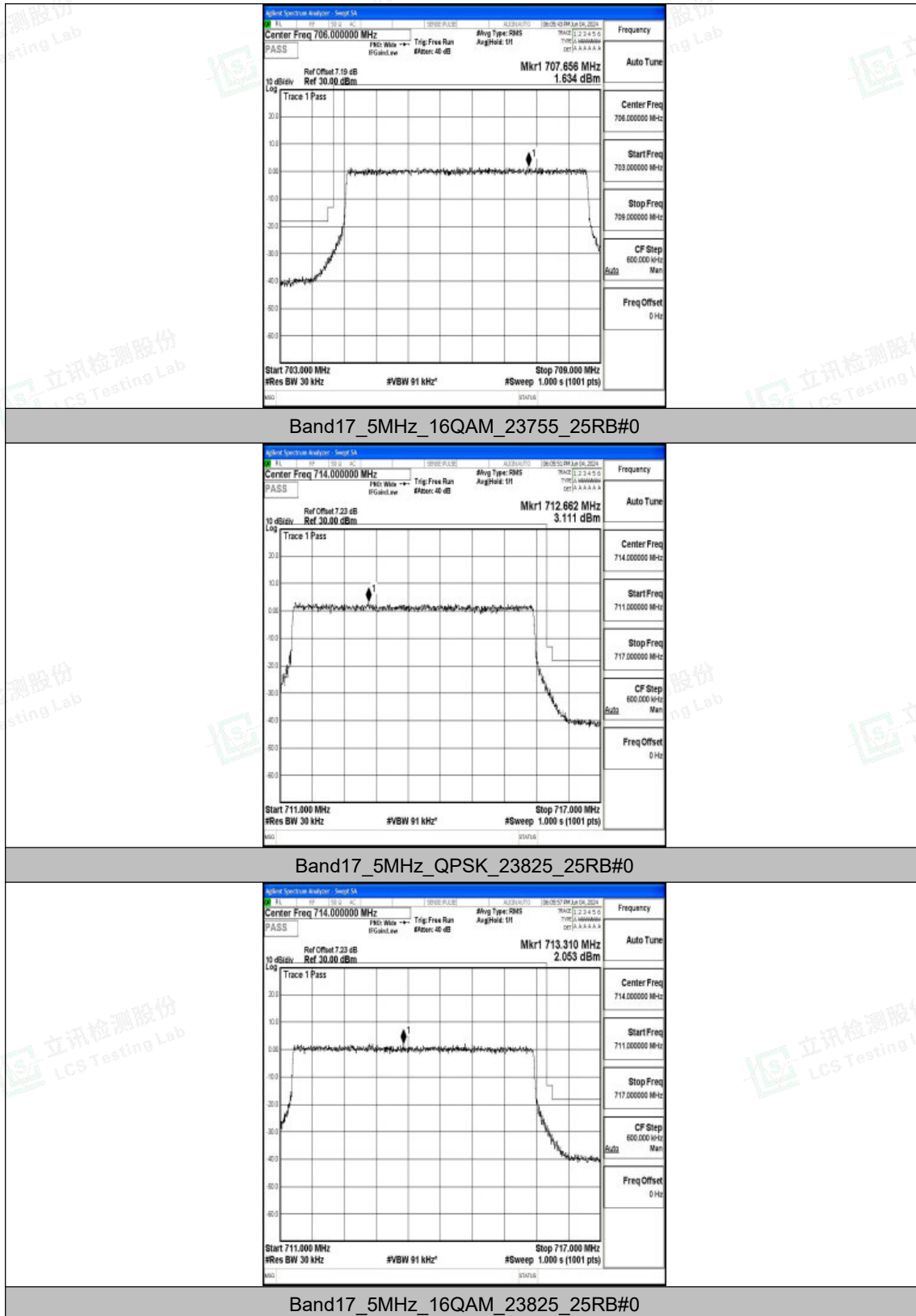
K.4 Band Edge

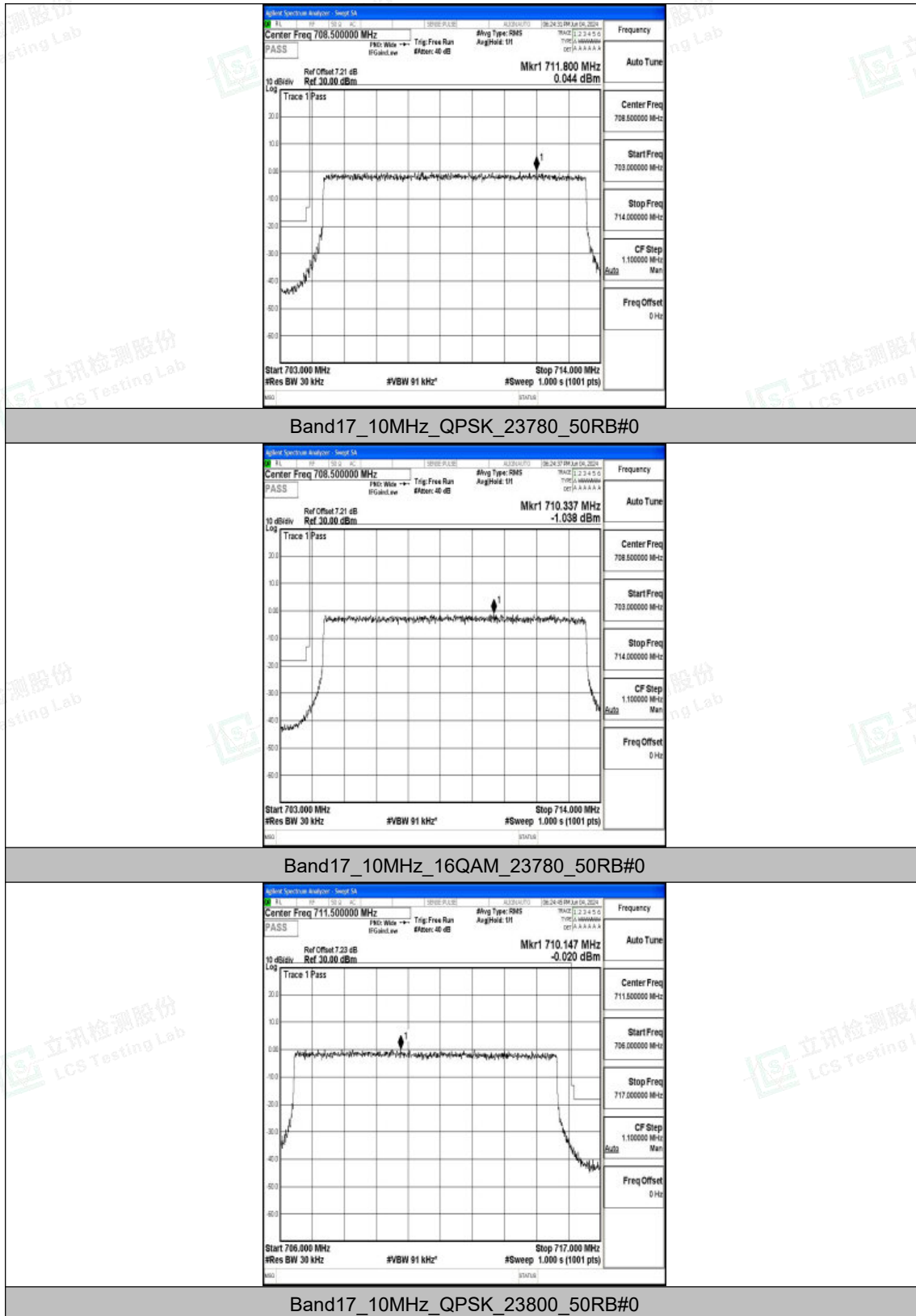
Test Result

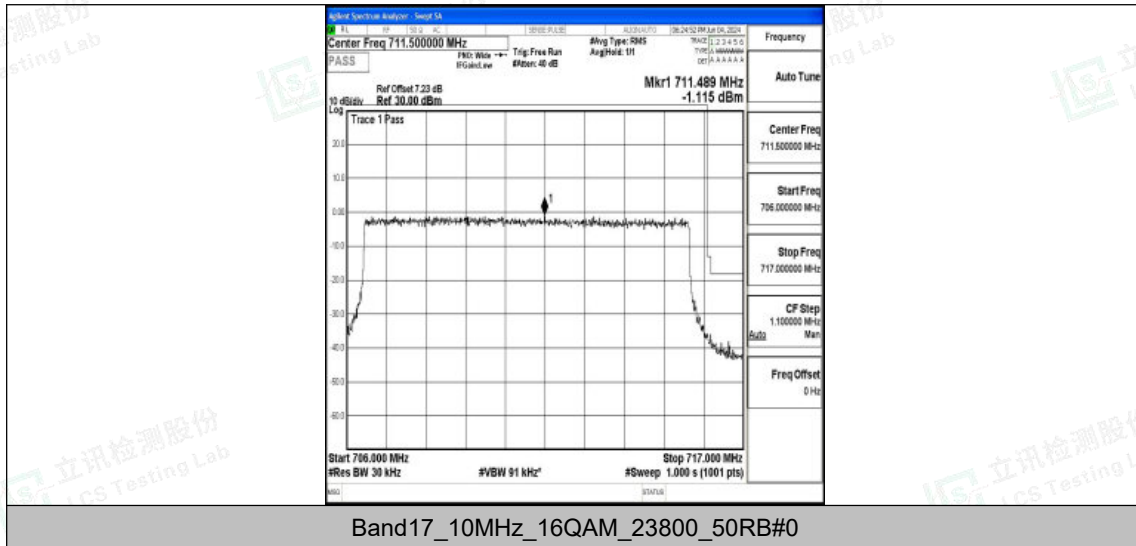
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.89	-30.86	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.90	-31.65	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.11	-30.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.12	-32.31	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.81	-36.94	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.83	-38.13	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.11	-37.07	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.12	-37.63	PASS

Test Graphs











K.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-57.88	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-53.29	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-61.65	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-43.81	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-43.90	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-58.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-54.21	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-62.02	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-45.62	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-44.21	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-57.37	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-52.19	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-62.15	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-42.75	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-44.18	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-58.20	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-53.50	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-61.87	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-46.32	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.18	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-53.39	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-51.45	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-61.87	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-46.18	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-44.20	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-57.55	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-50.11	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-61.91	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-46.33	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-43.99	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-56.86	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-51.10	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-61.99	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-43.51	PASS



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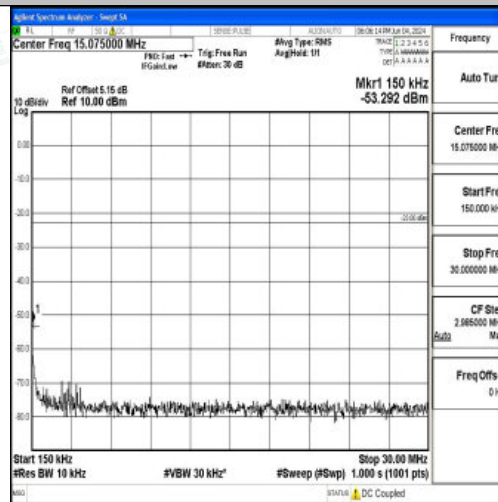
Test Graphs



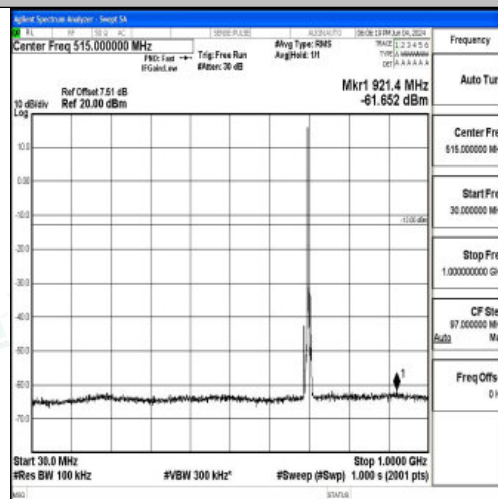
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518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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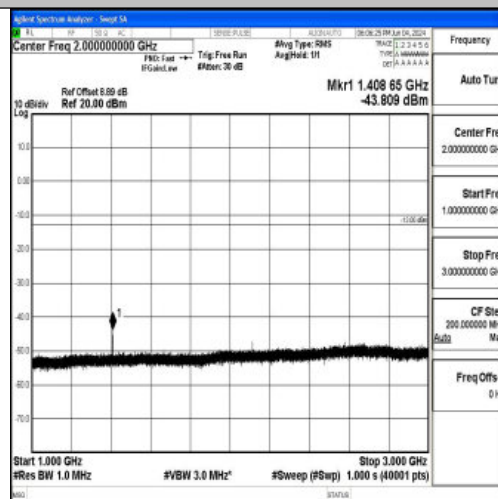
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Band17_5MHz_QPSK_23755_1RB#0_0.15~30_0.15~30



Band17_5MHz_QPSK_23755_1RB#0_30~1000_30~1000



Band17_5MHz_QPSK_23755_1RB#0_1000~3000_1000~3000

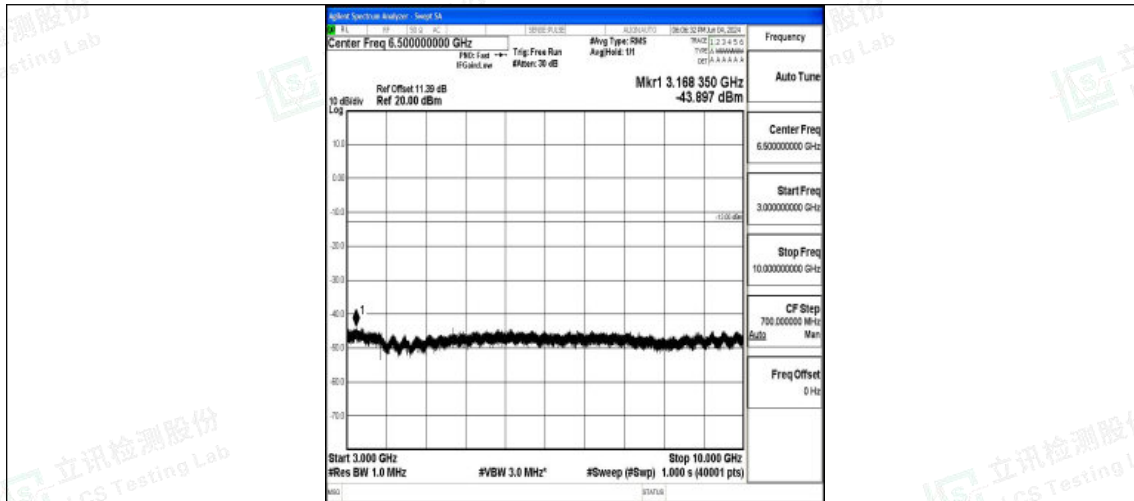


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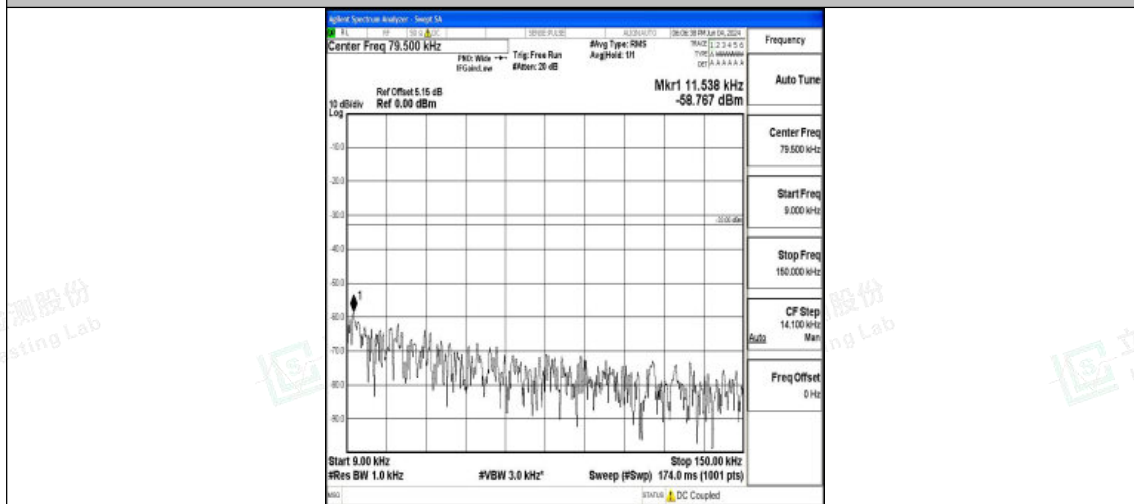
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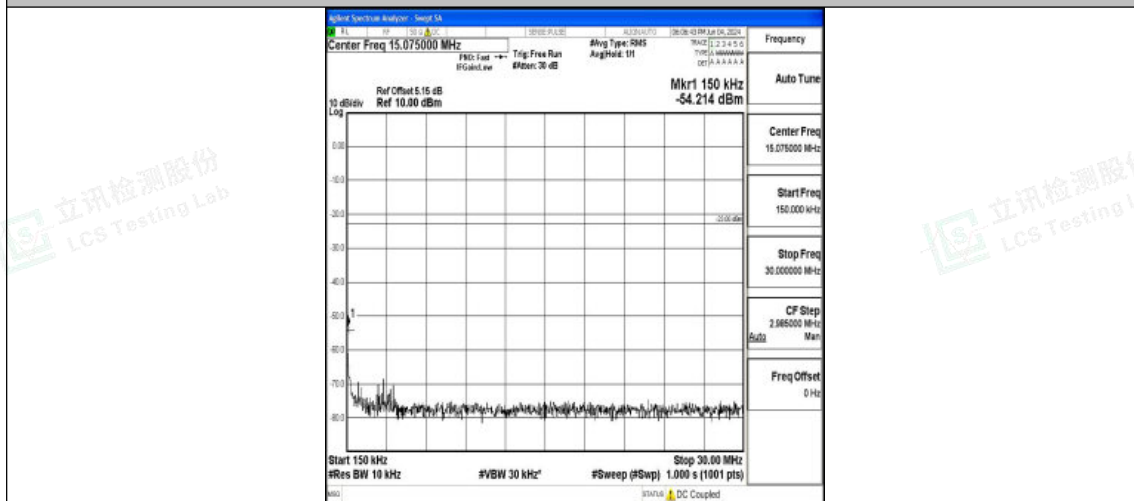
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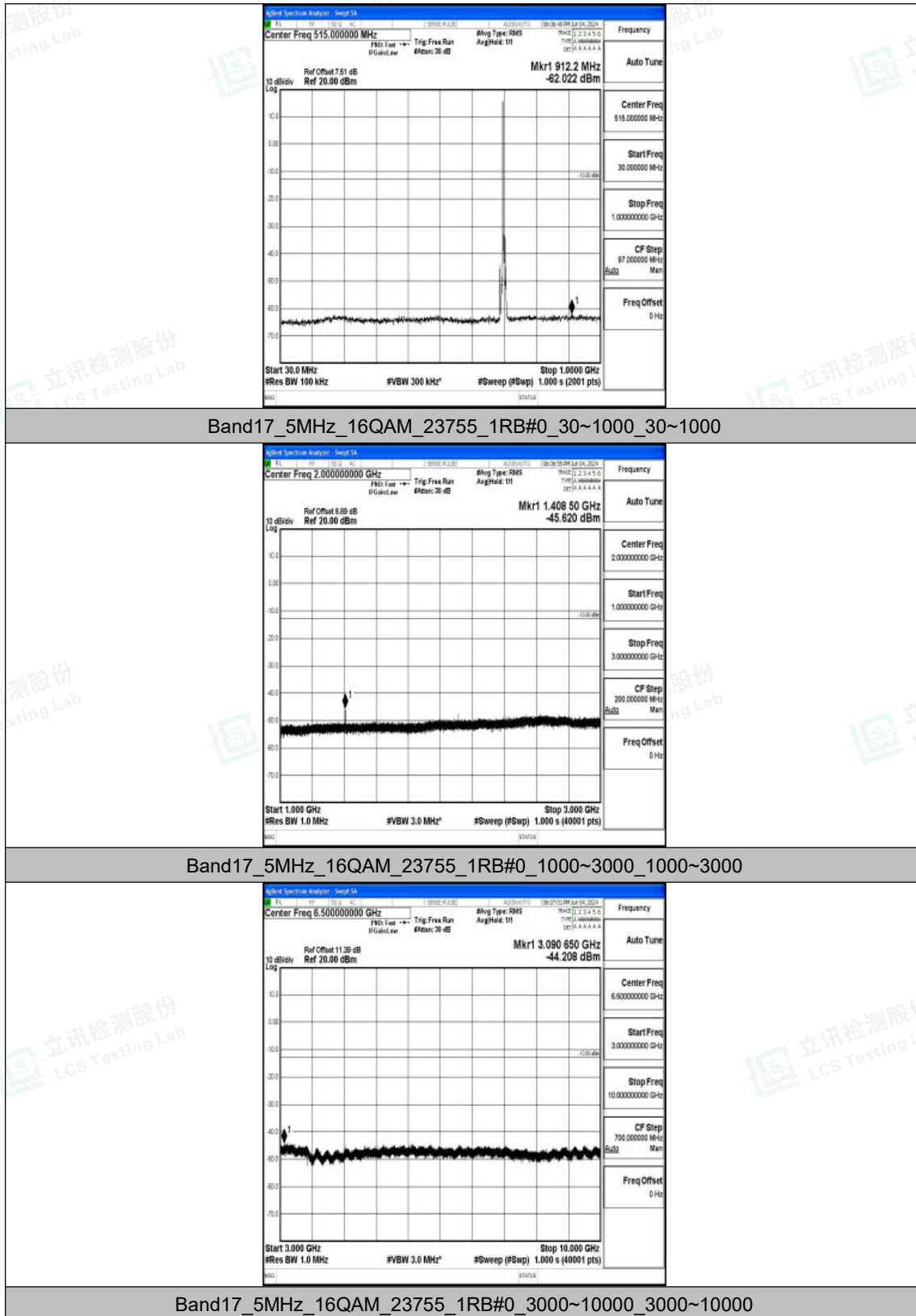


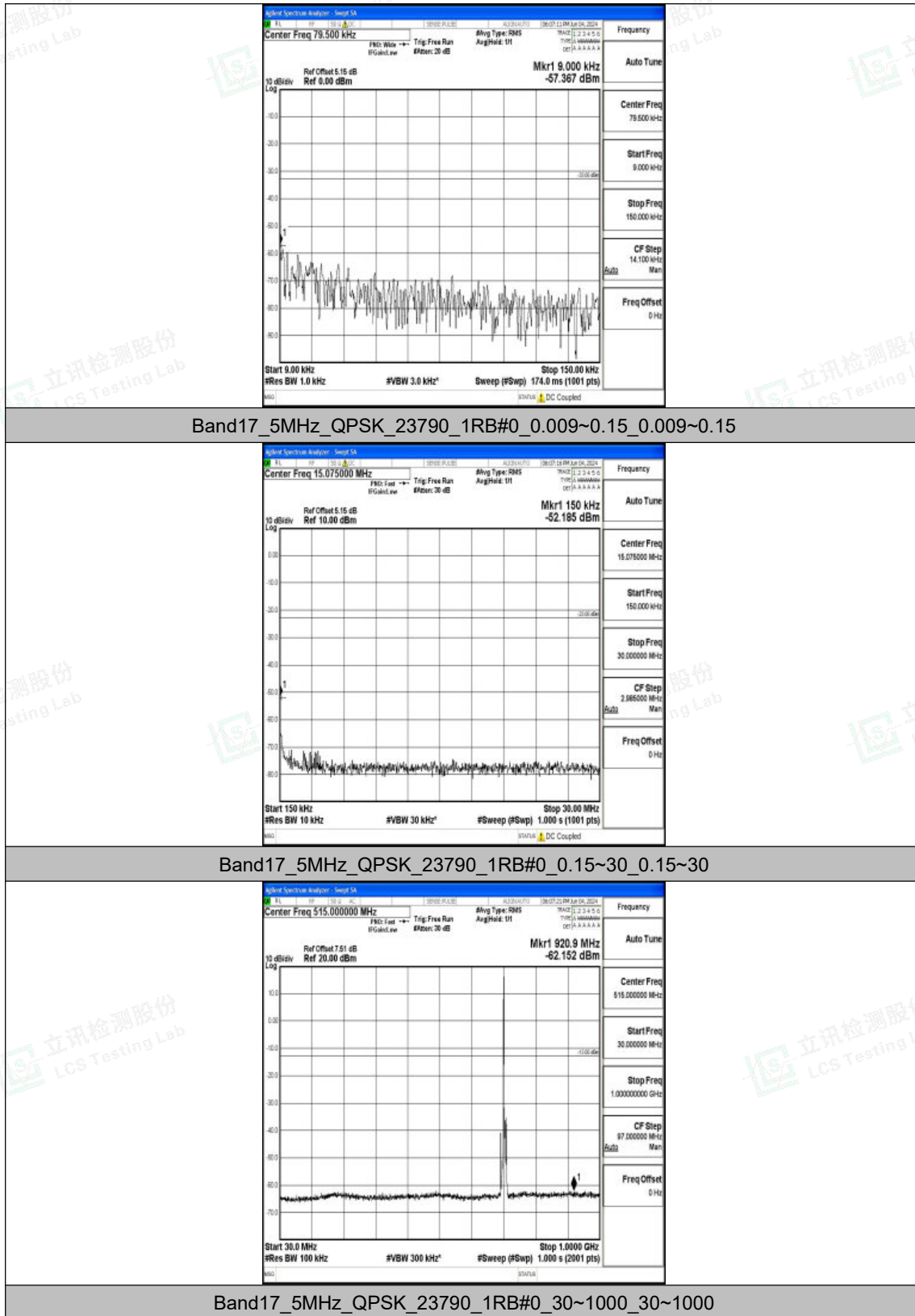
Band17_5MHz_16QAM_23755_1RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_16QAM_23755_1RB#0_0.15~30_0.15~30





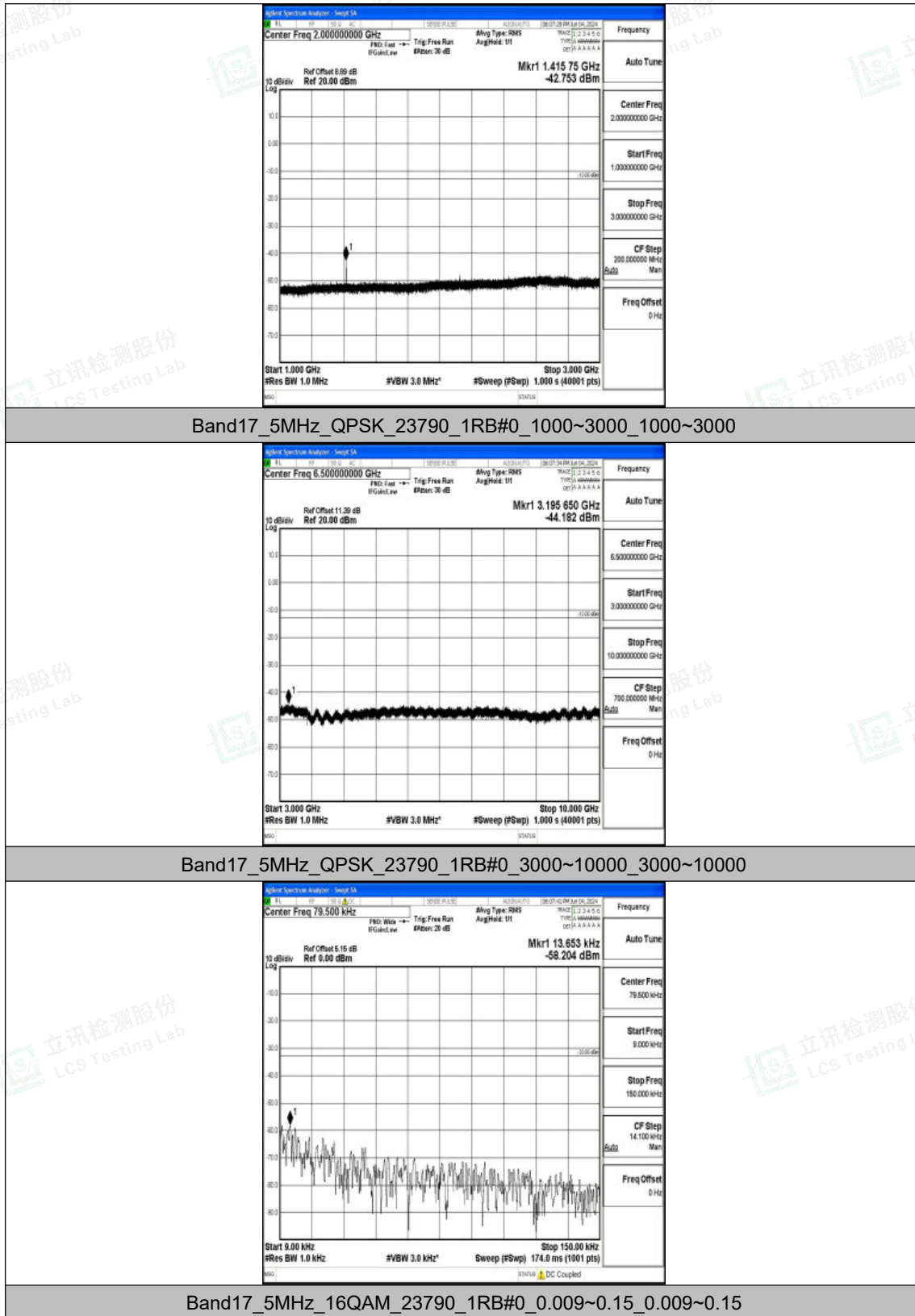


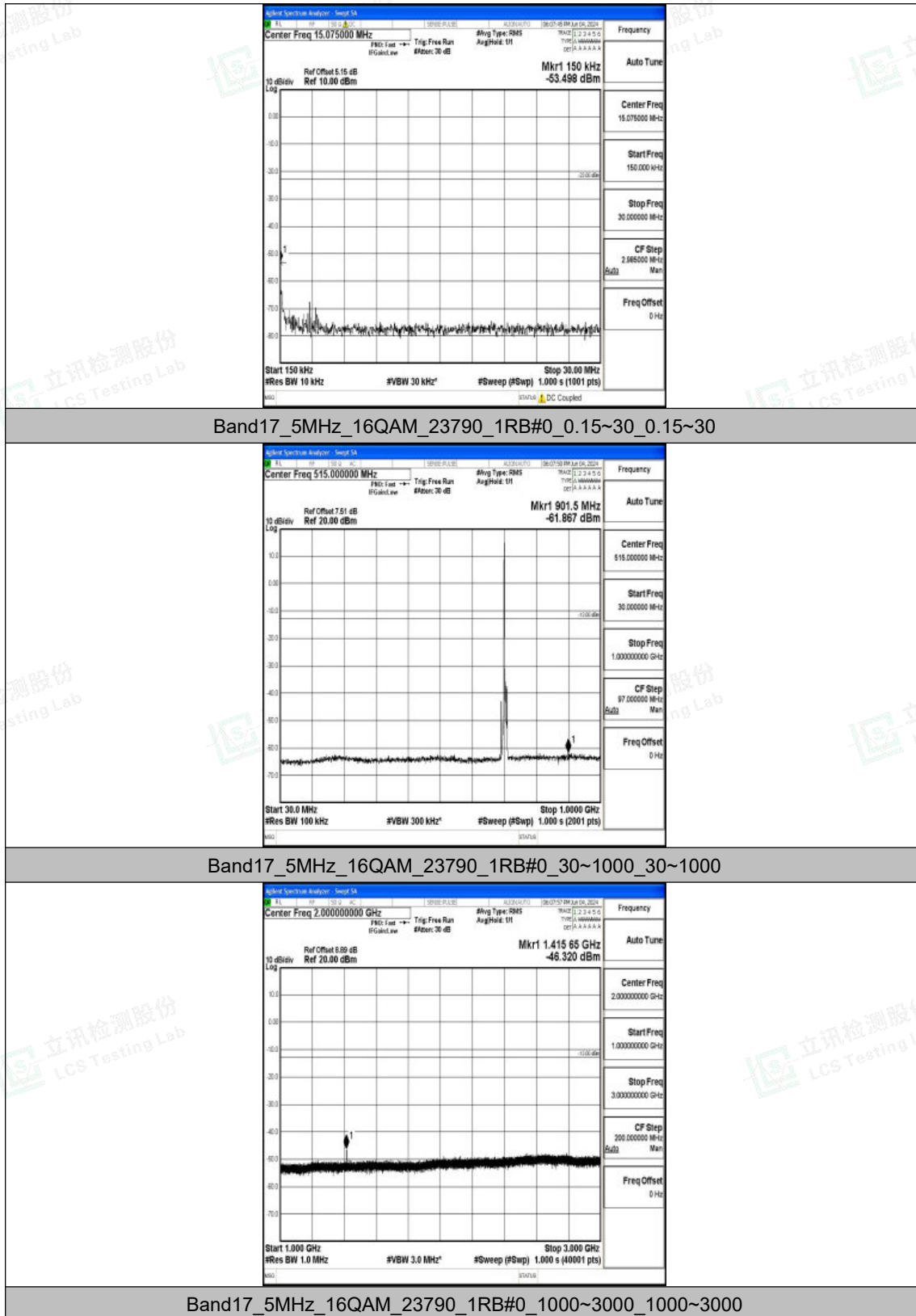
Shenzhen LCS Compliance Testing Laboratory Ltd.

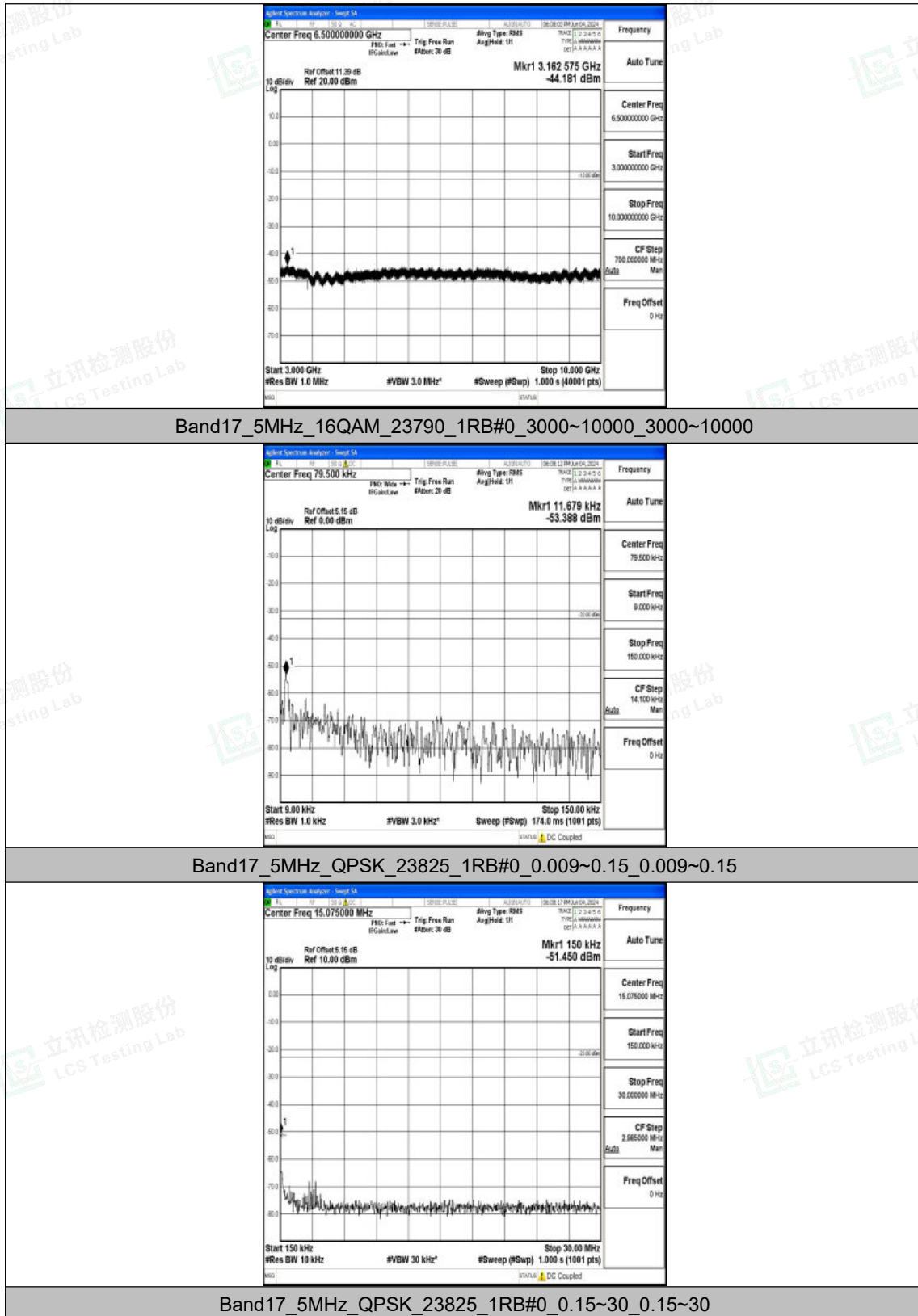
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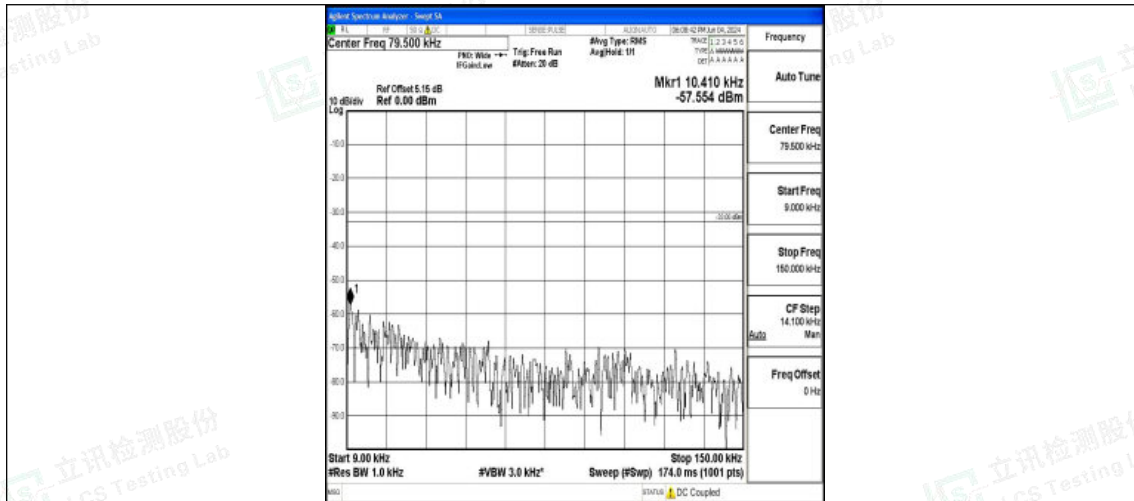
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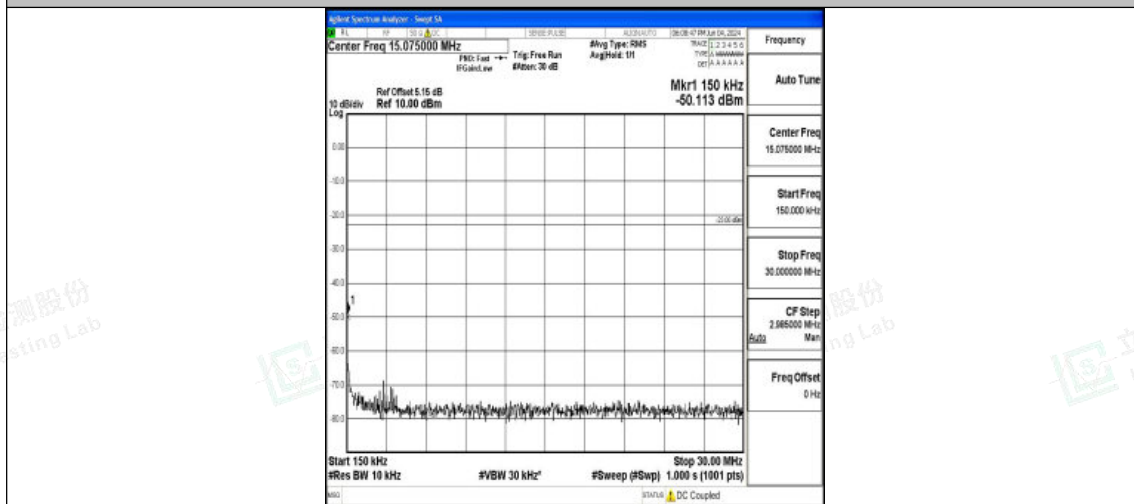




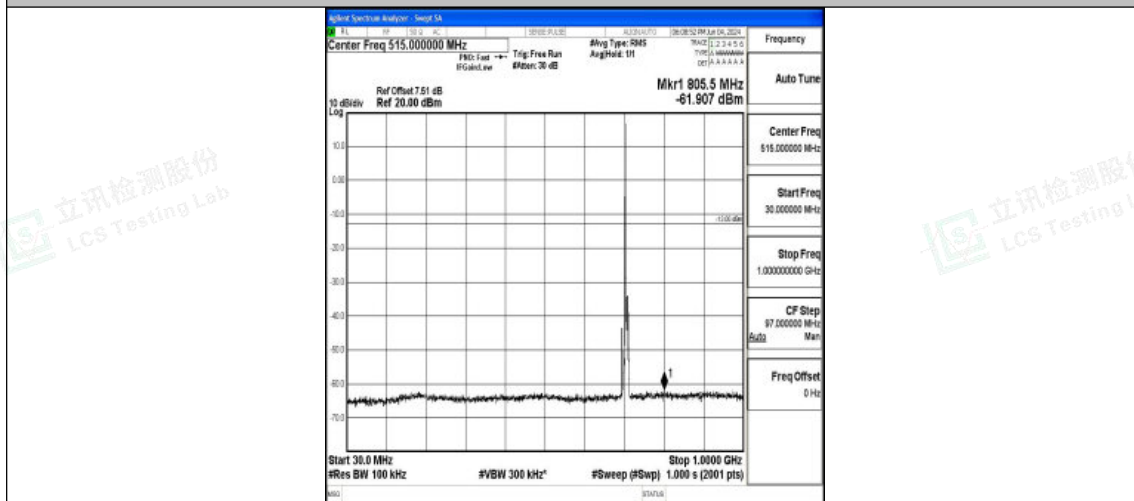




Band17_5MHz_16QAM_23825_1RB#0_0.009~0.15_0.009~0.15

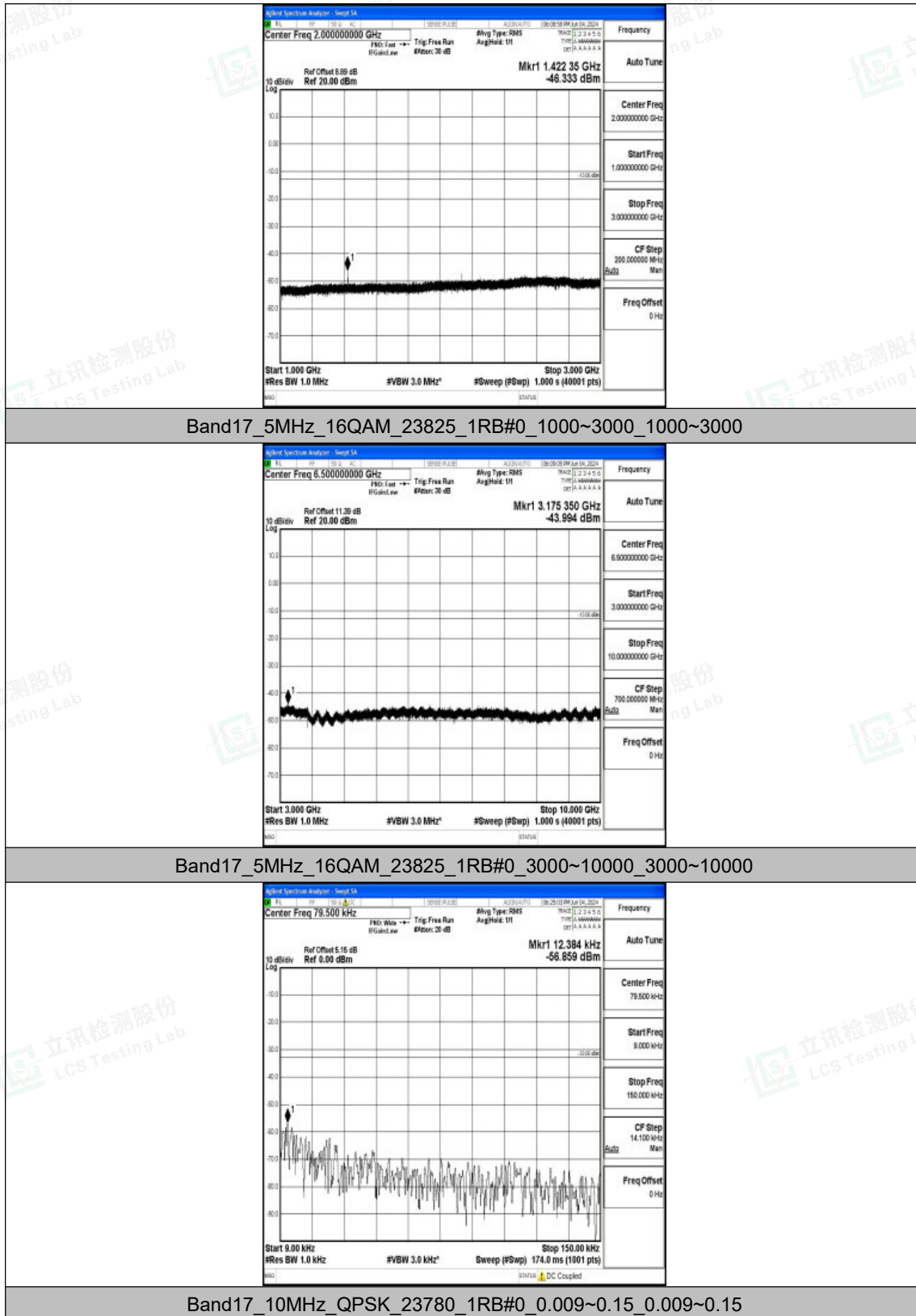


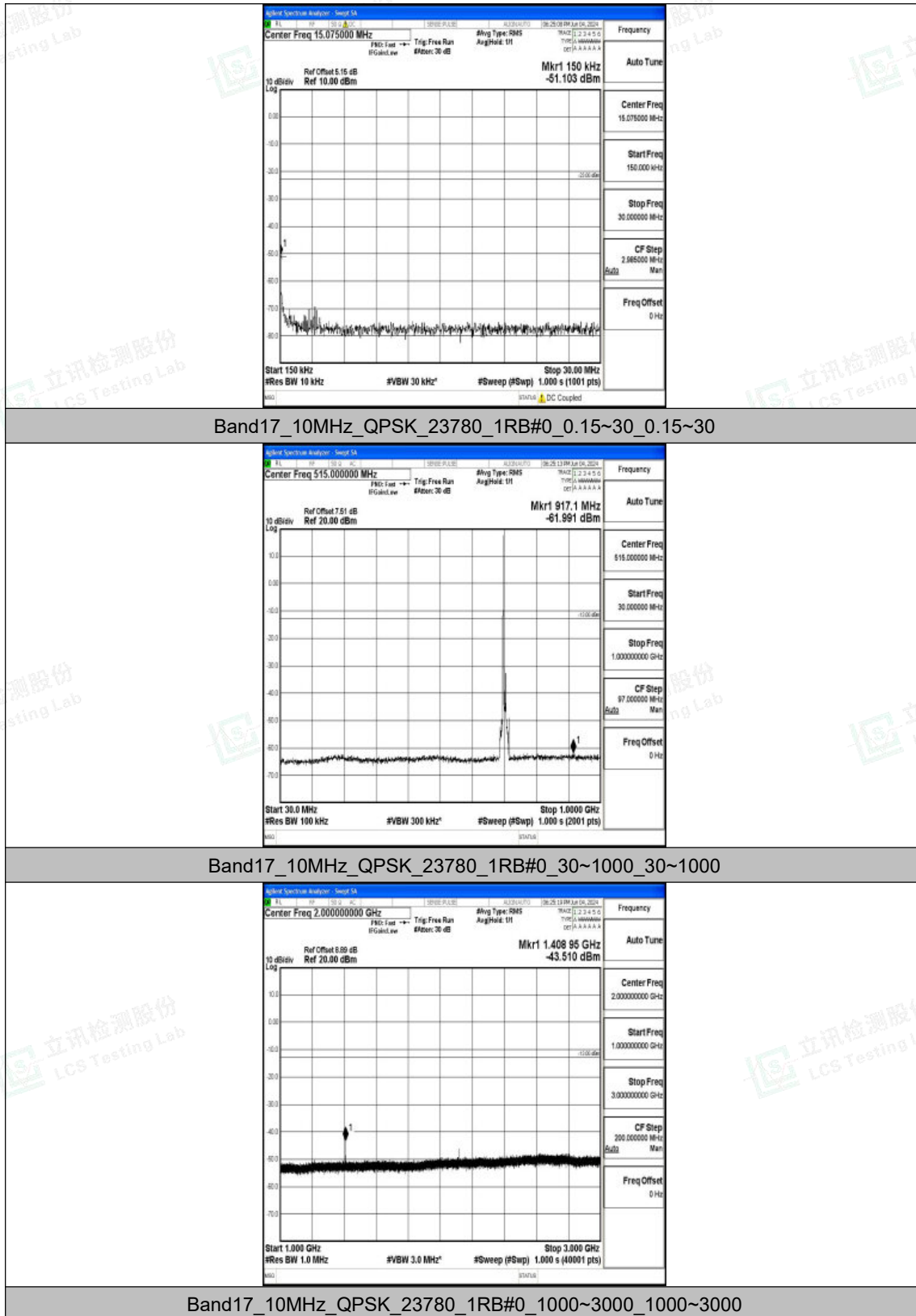
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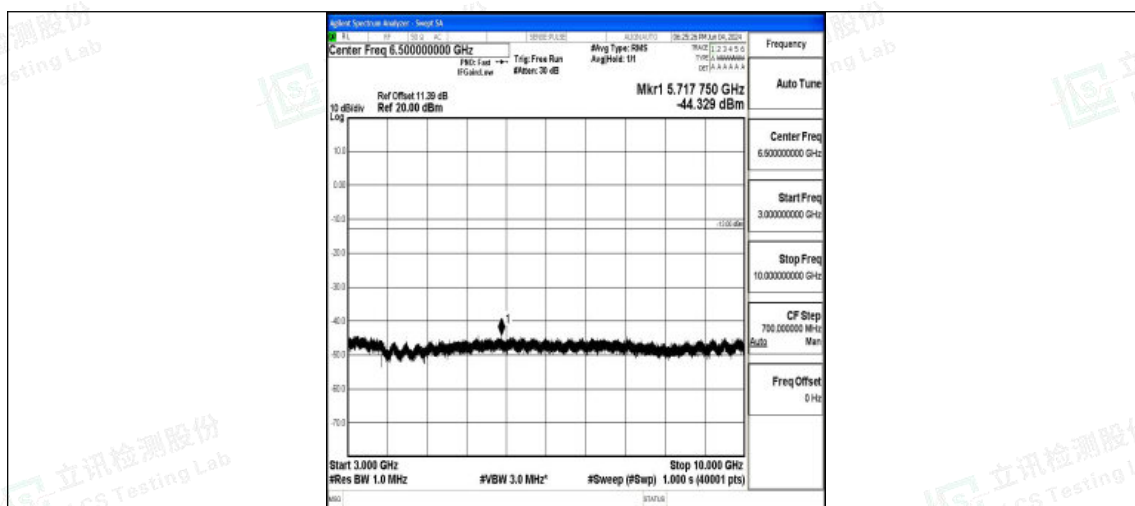


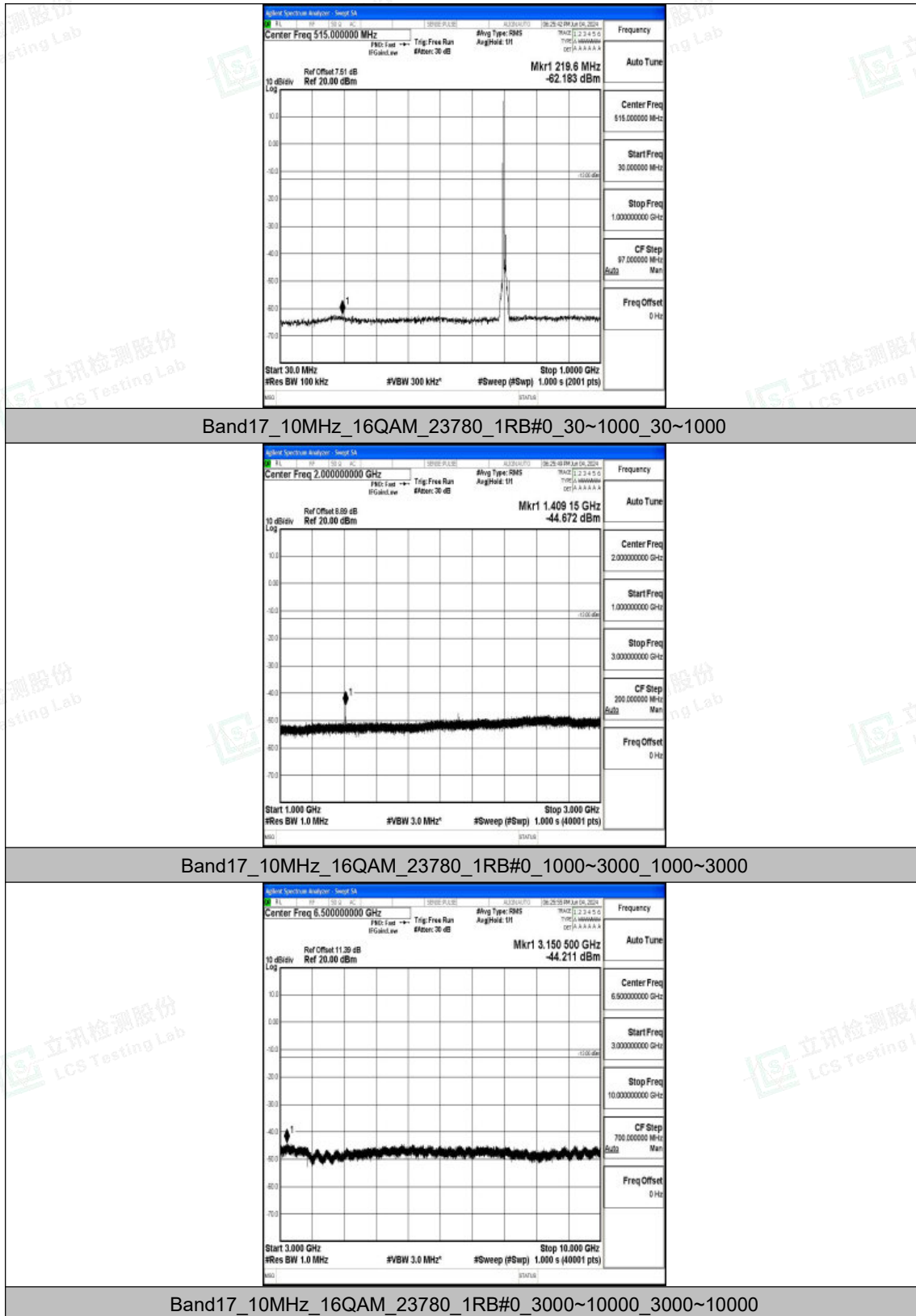
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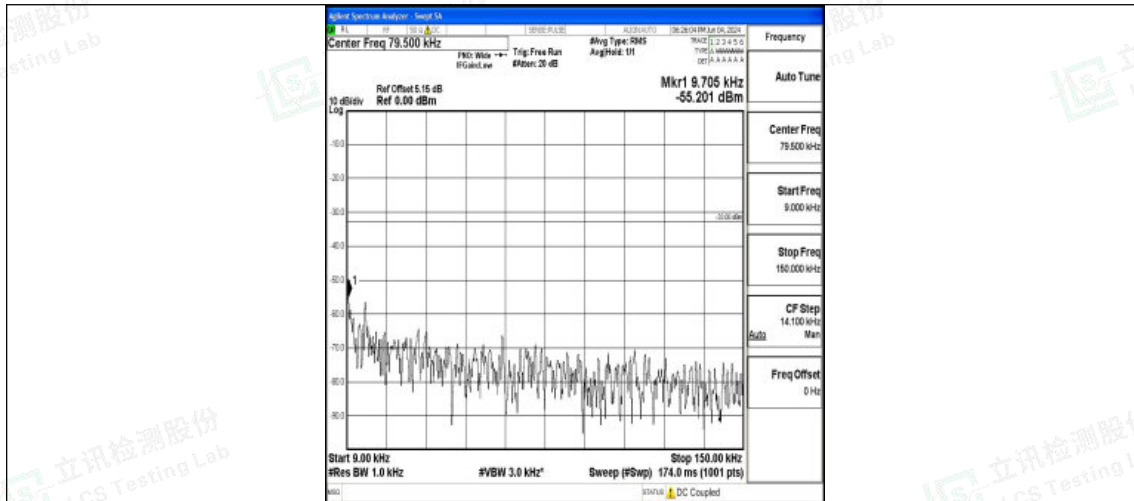


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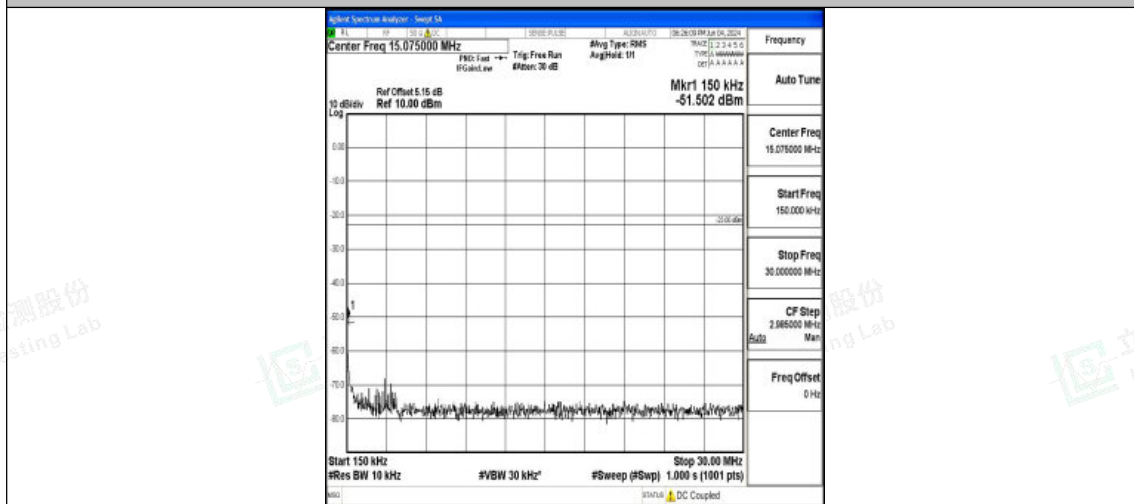
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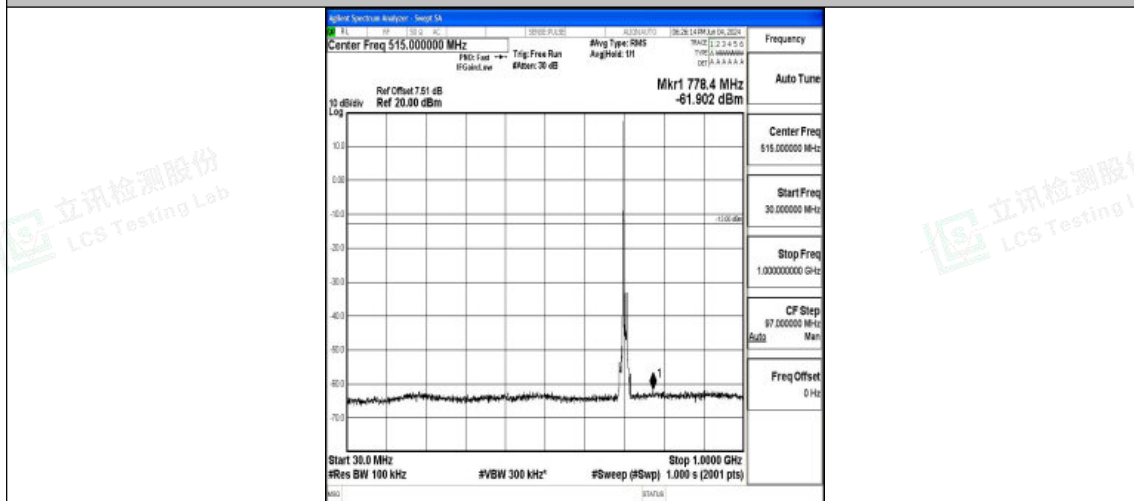
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Band17_10MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15

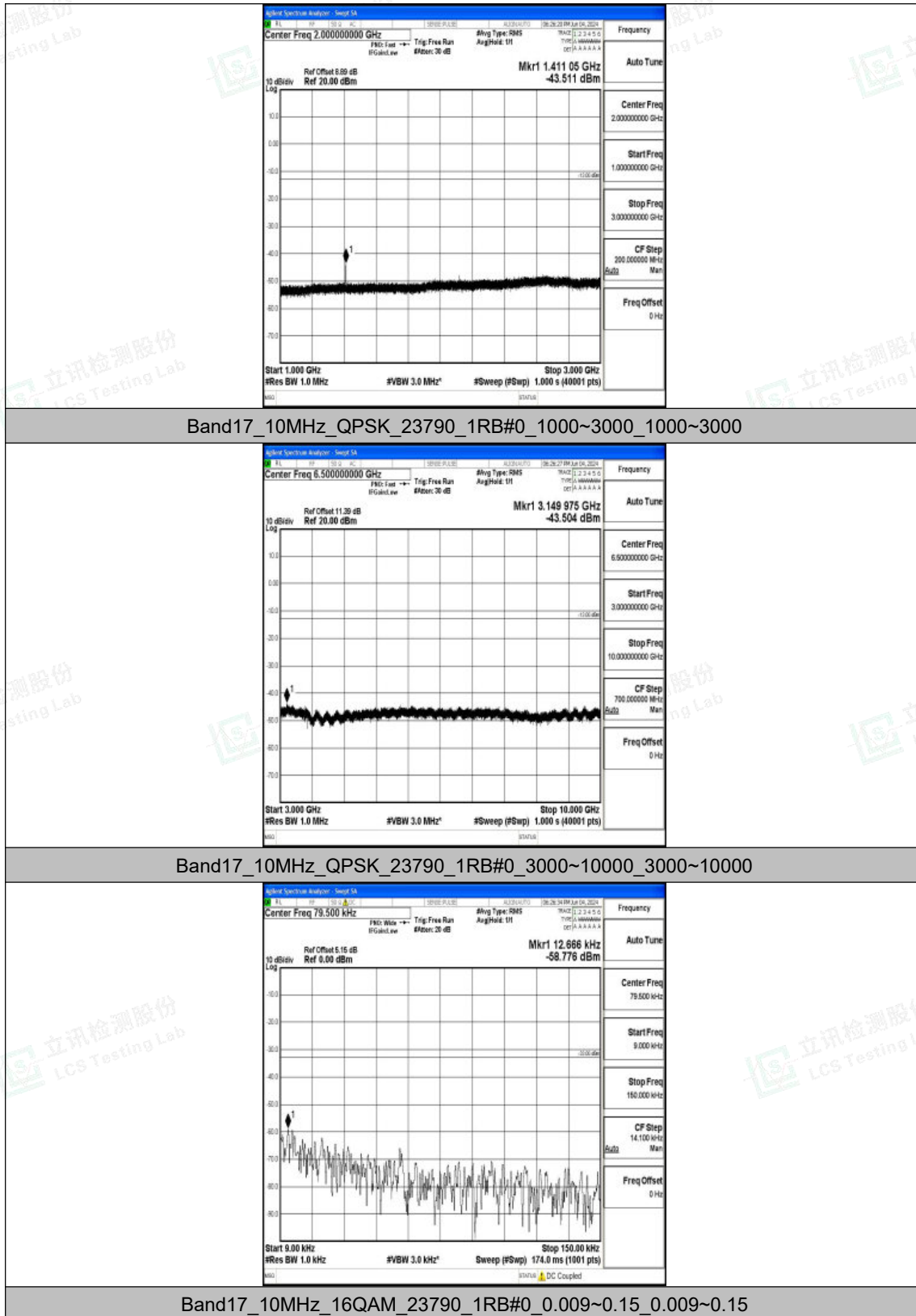


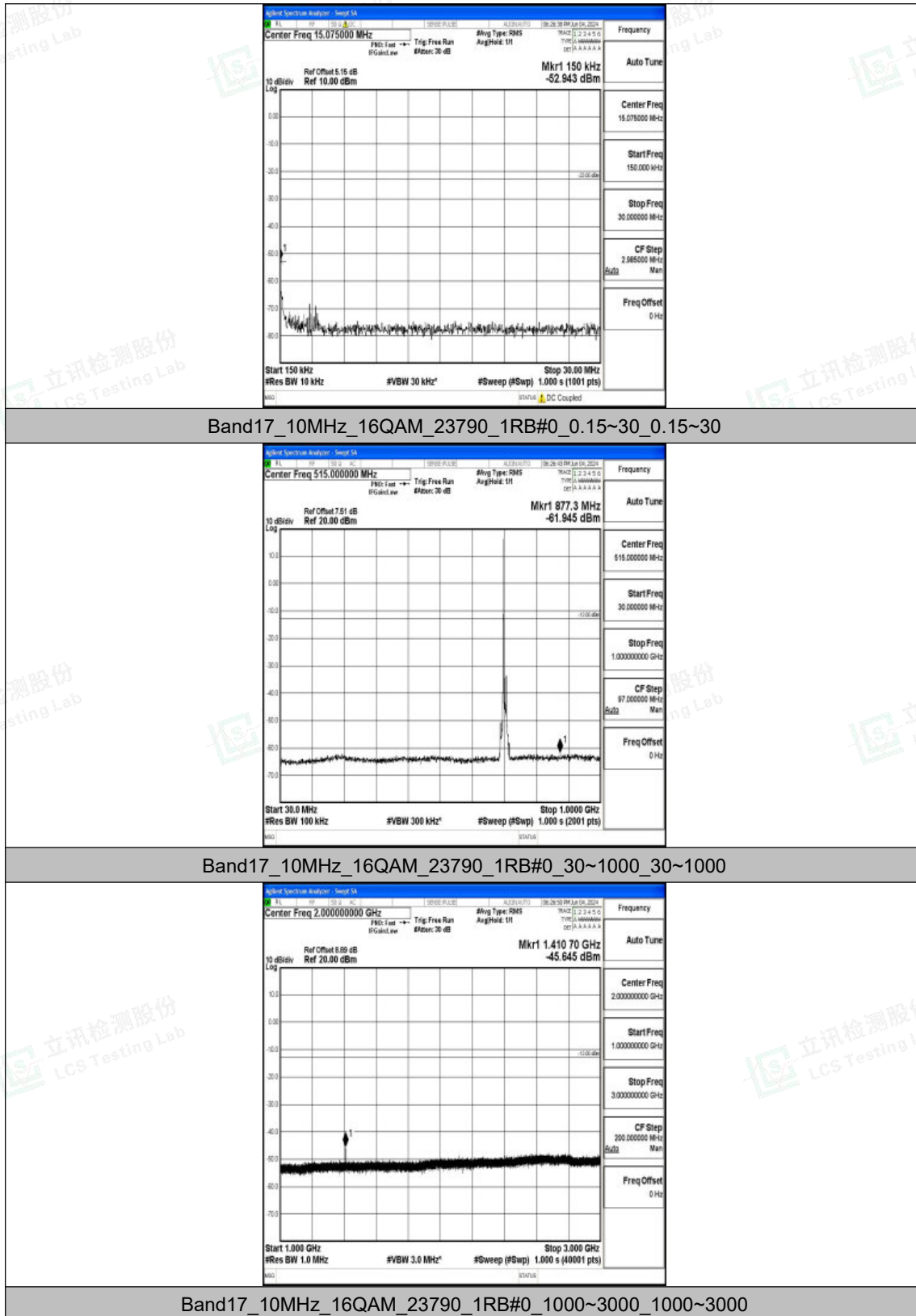
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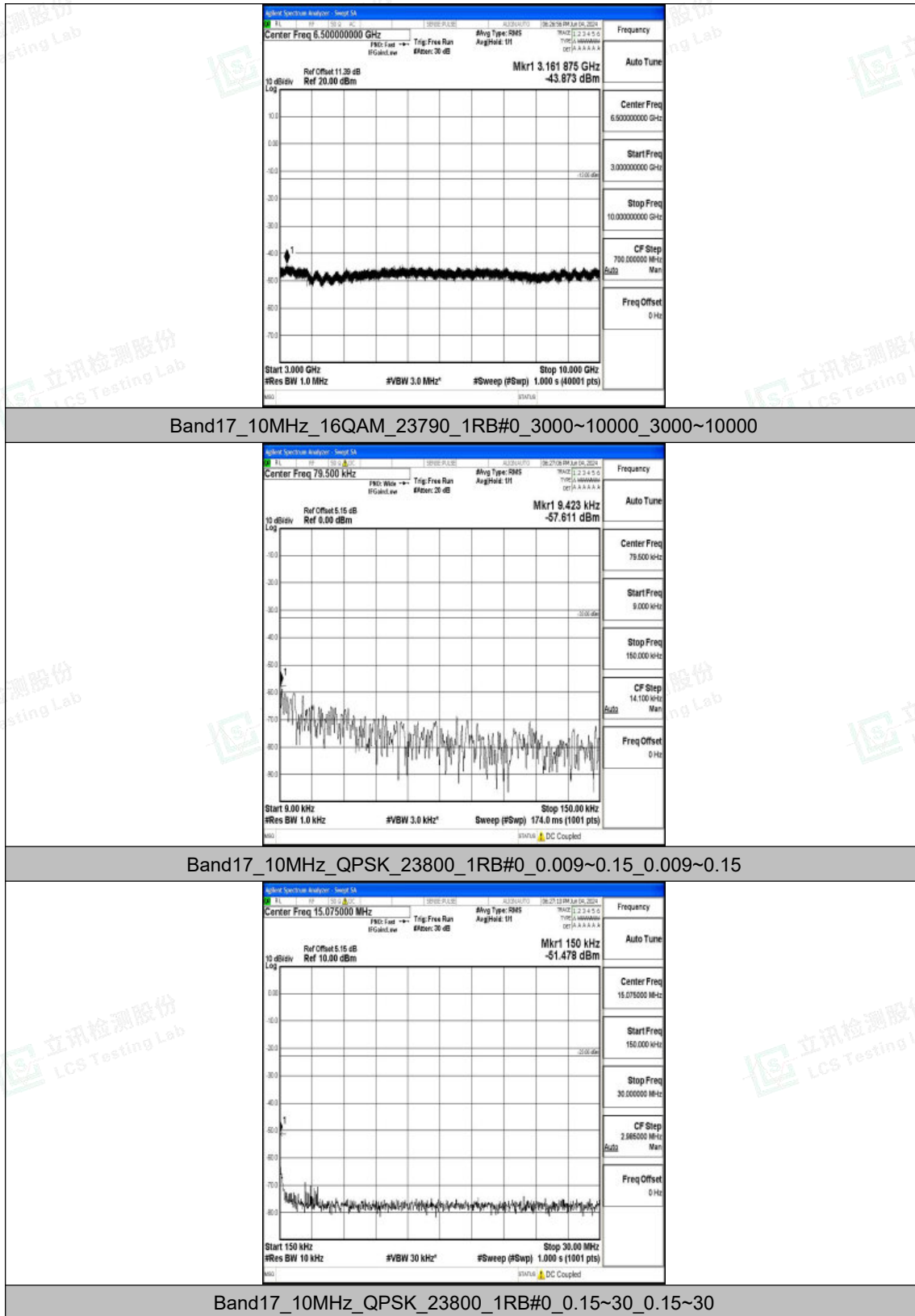


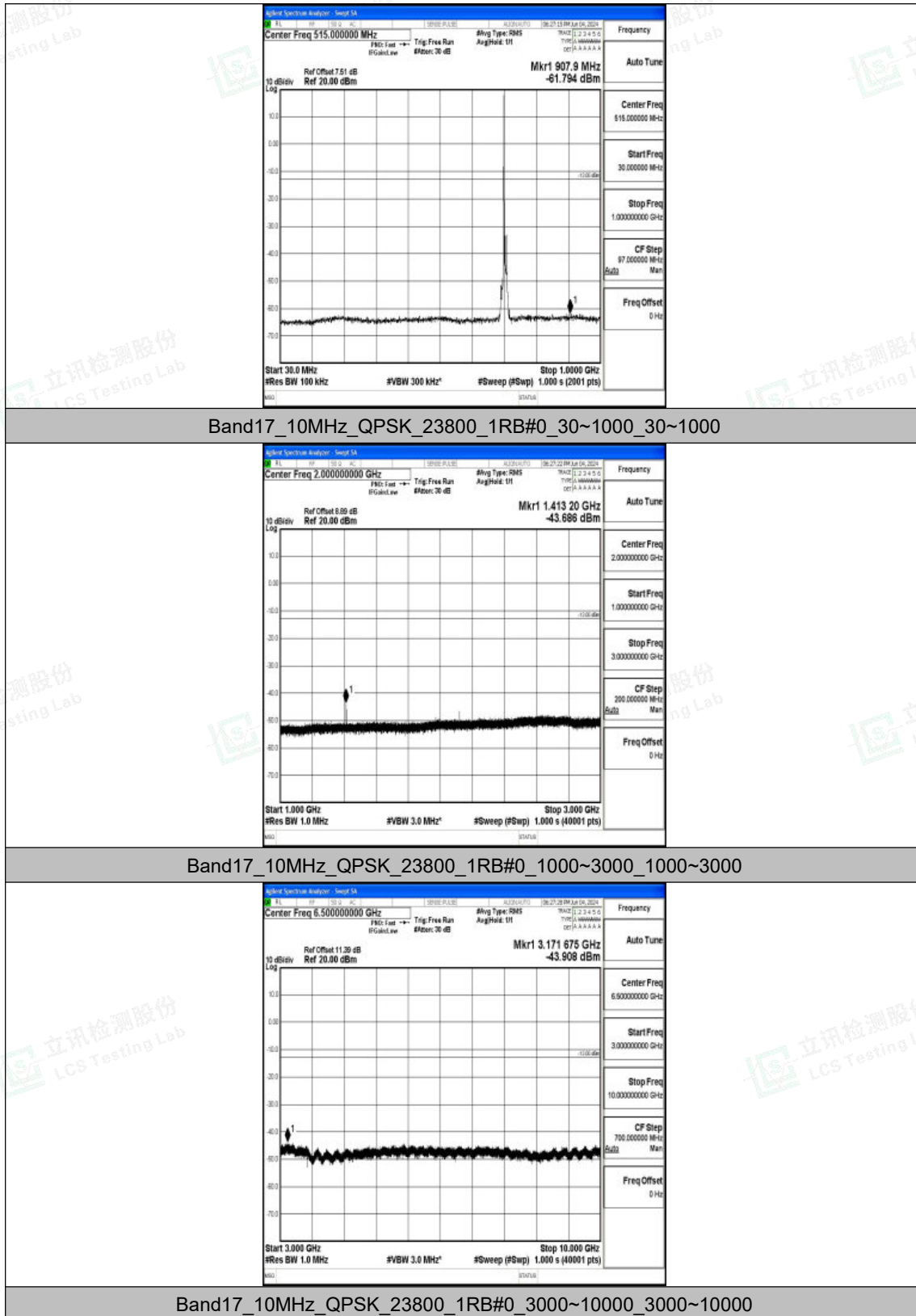
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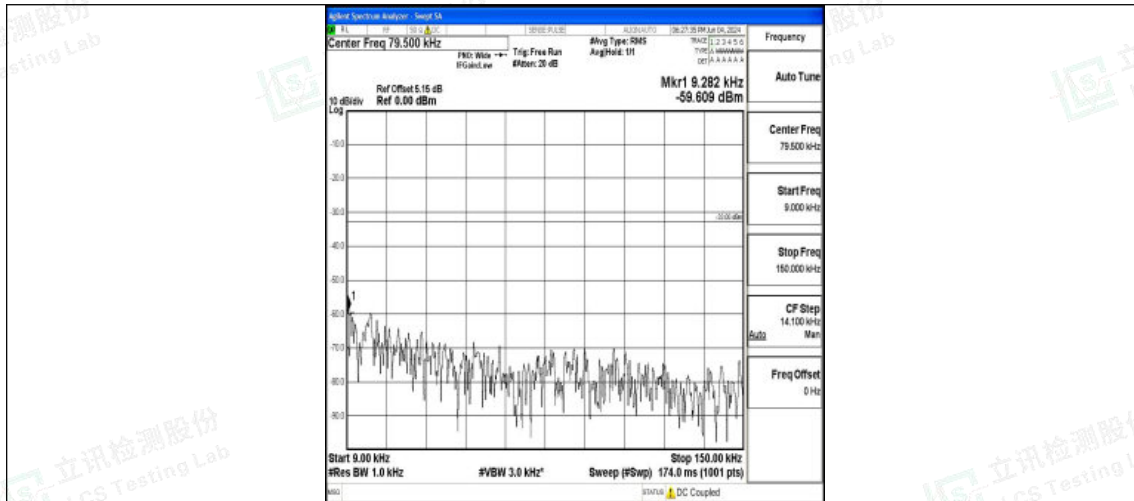




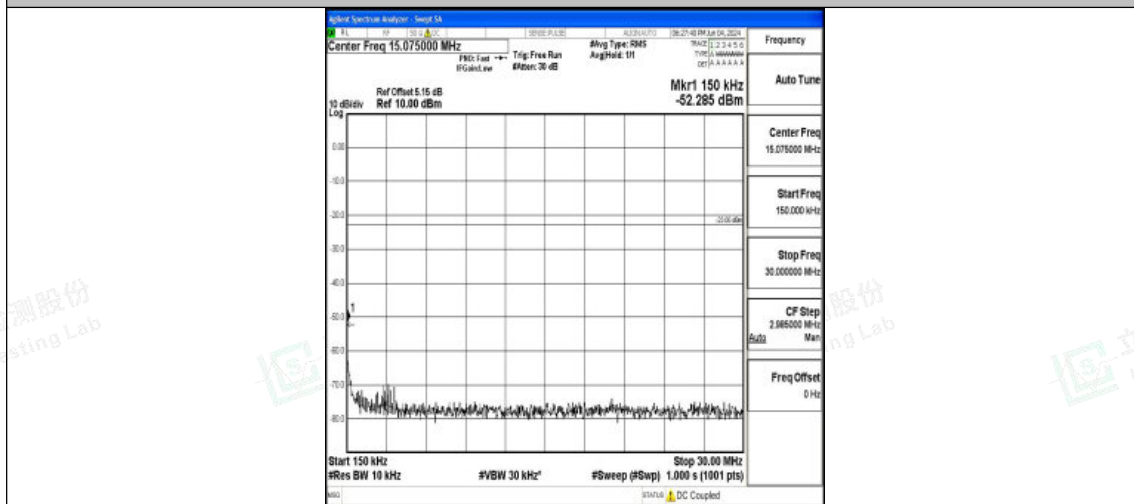




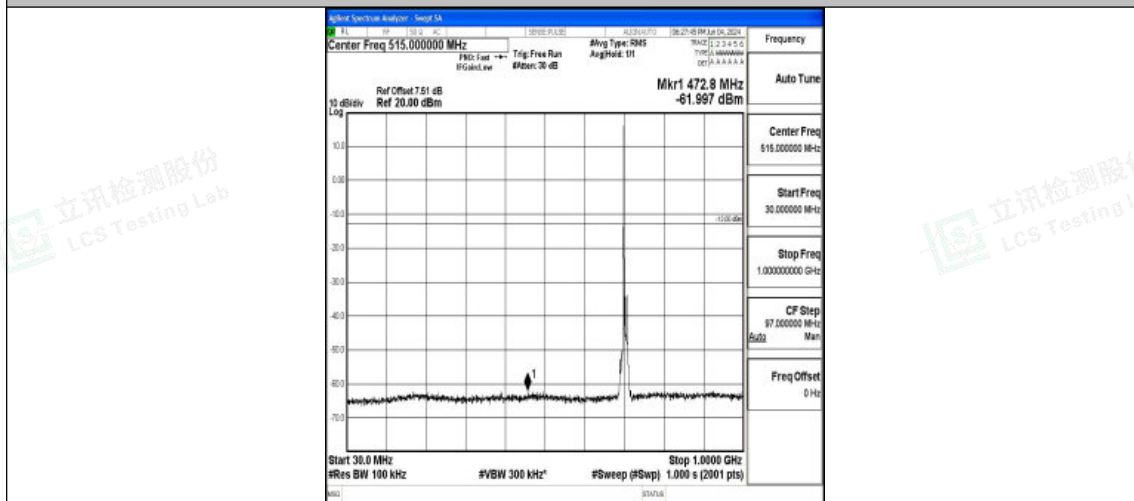




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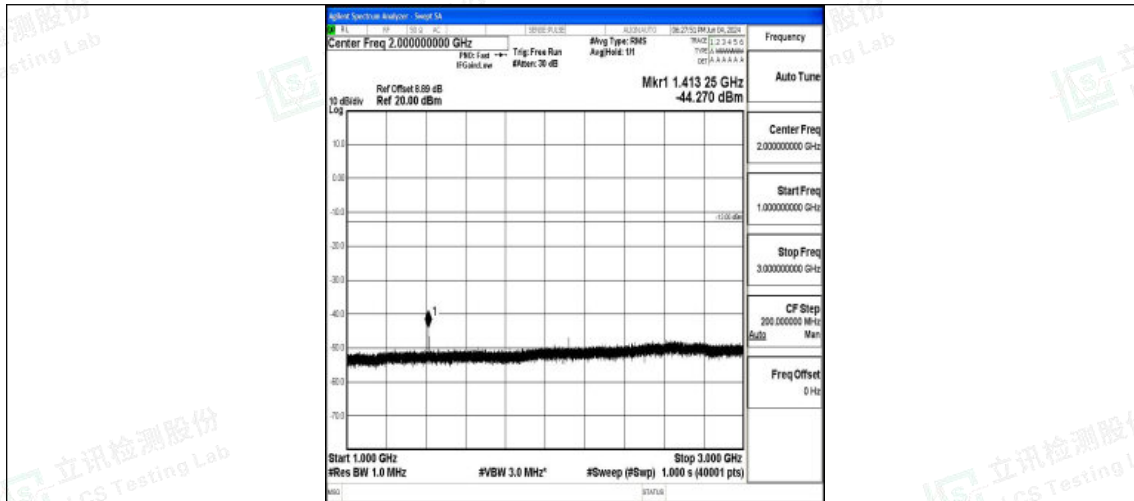


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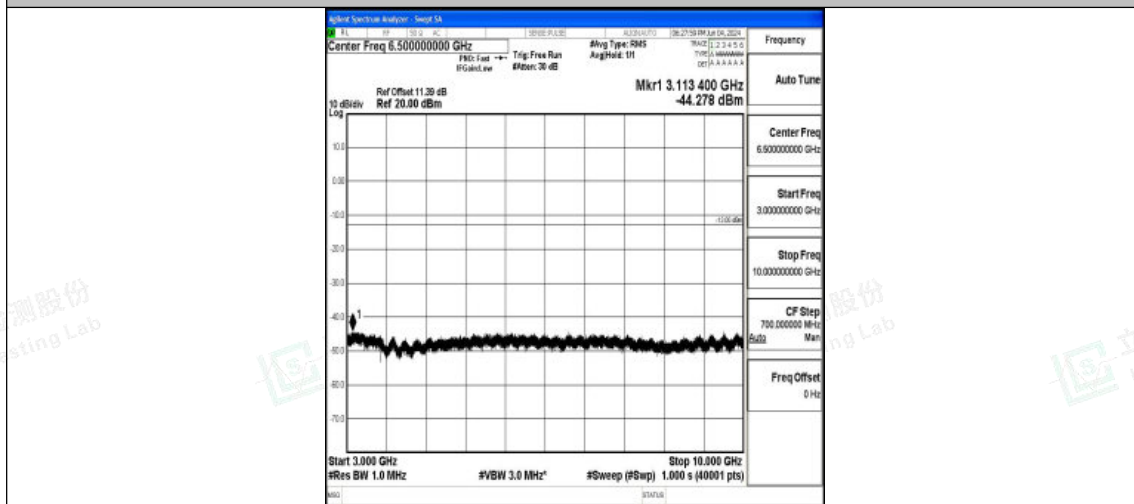


Band17_10MHz_16QAM_23800_1RB#0_30~1000_30~1000





Band17_10MHz_16QAM_23800_1RB#0_1000~3000_1000~3000



Band17_10MHz_16QAM_23800_1RB#0_3000~10000_3000~10000

