

**Appendix J: Test Data for E-UTRA Band 7****Product Name: In-Car Intelligent Navigation System****Test Model: Quattroporte DH-8870****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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J.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	20.34	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.65	PASS
Band7	5MHz	QPSK	21100	25RB#0	19.88	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.30	PASS
Band7	5MHz	QPSK	21425	25RB#0	19.88	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.22	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.02	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.32	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.94	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.22	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.04	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.40	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.83	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.35	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.92	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.08	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.10	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.41	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.77	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.22	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.08	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.19	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.36	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.13	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.74	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.34	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.00	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.12	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.71	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.11	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.72	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.31	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.99	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.09	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.77	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.40	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.76	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.52	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.01	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.31	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.84	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.17	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.69	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.22	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.95	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.09	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.78	13	PASS



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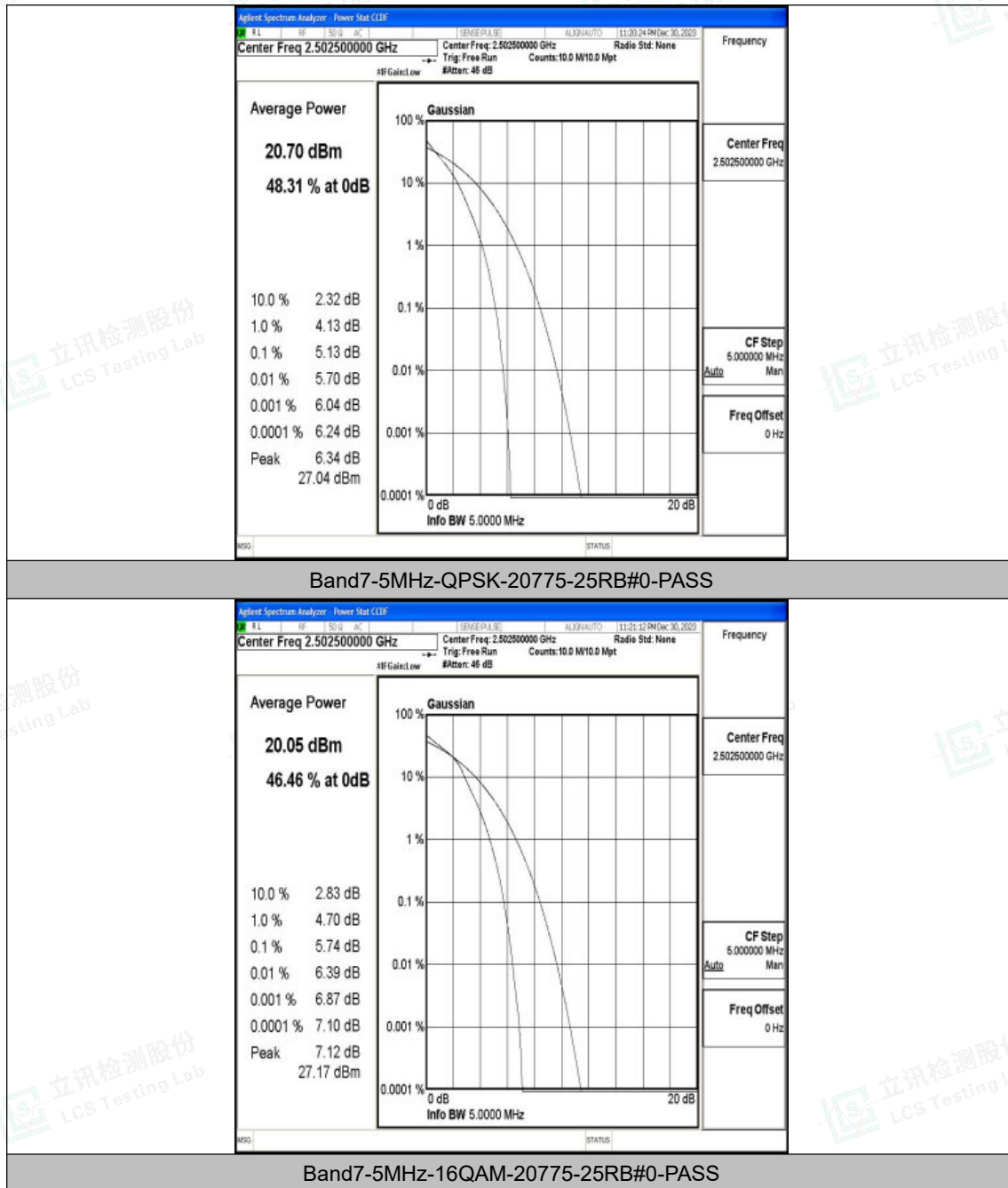
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Test Graphs

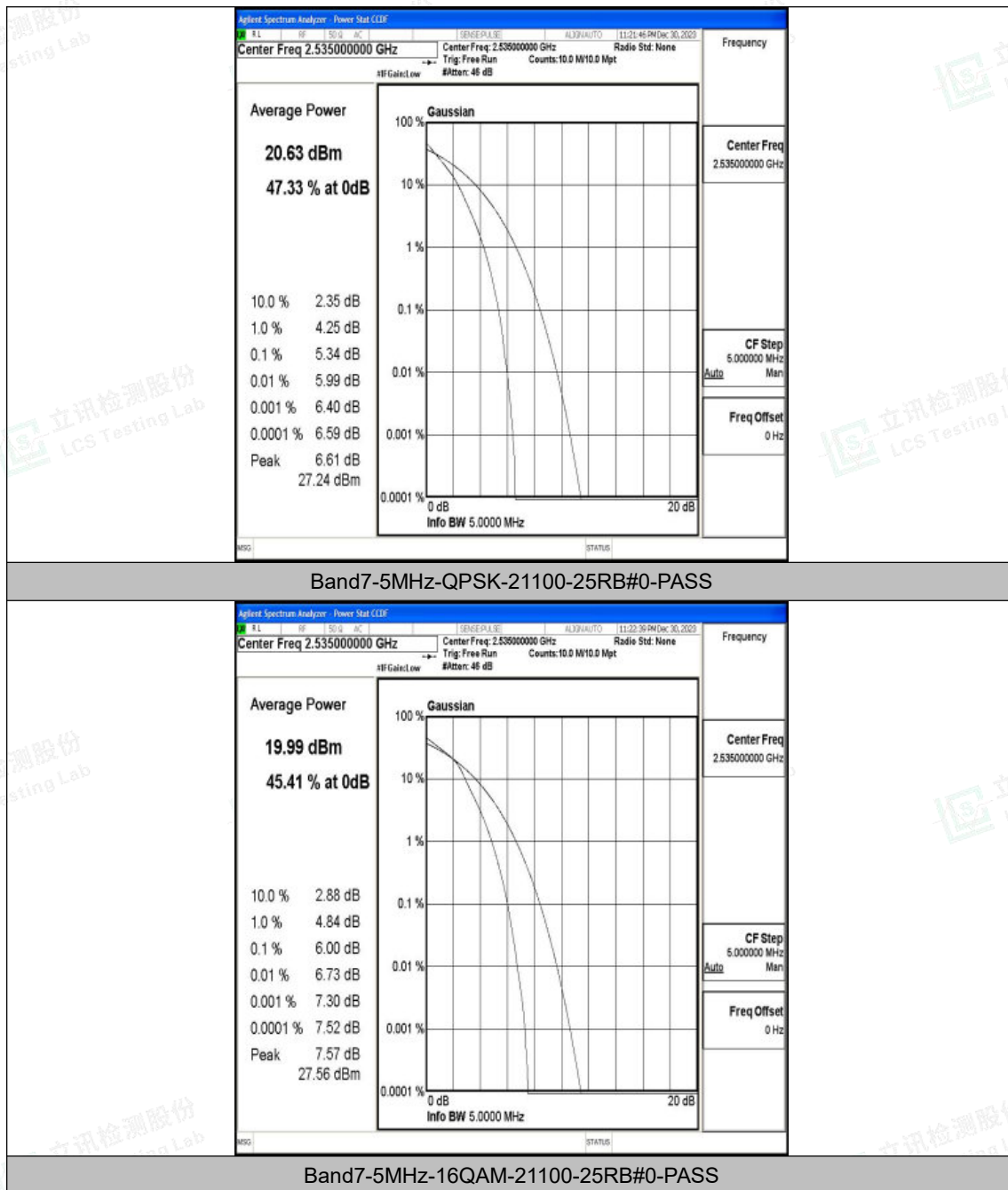


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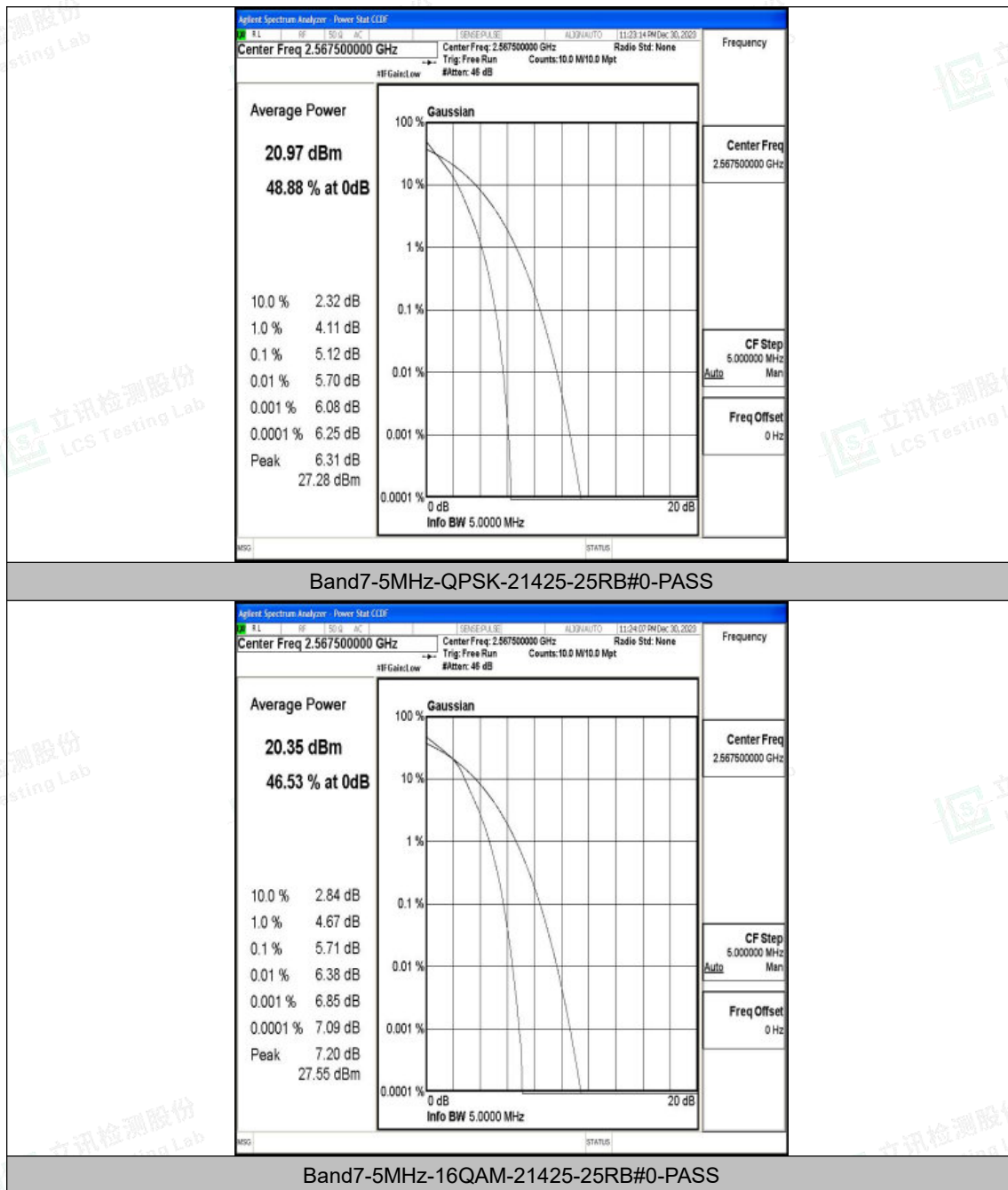


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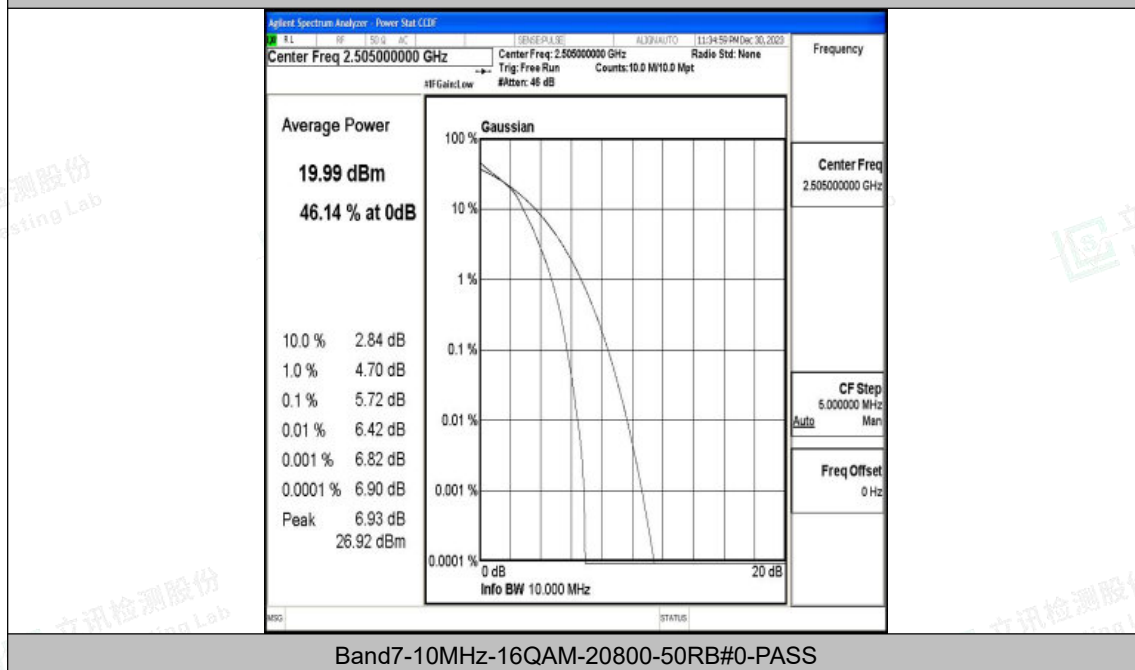
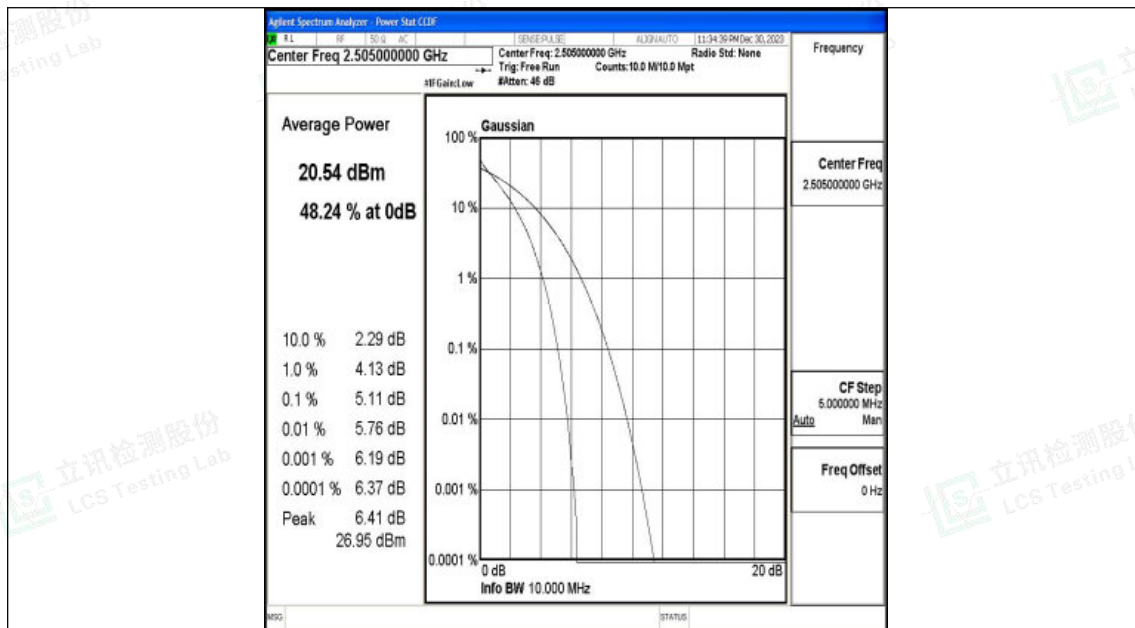


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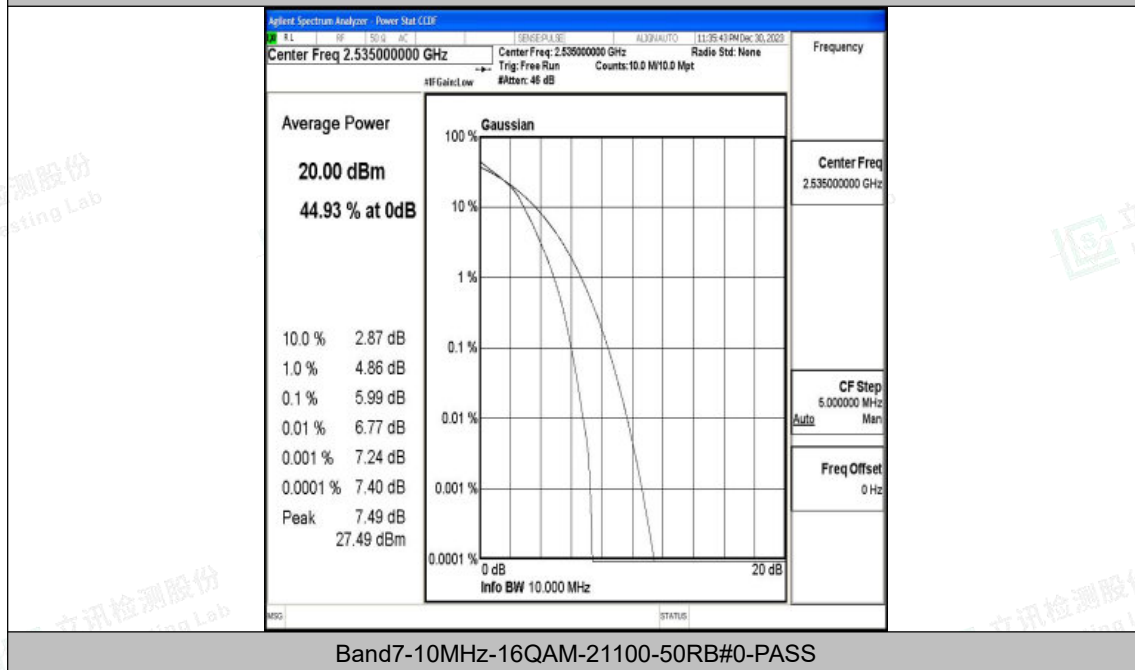
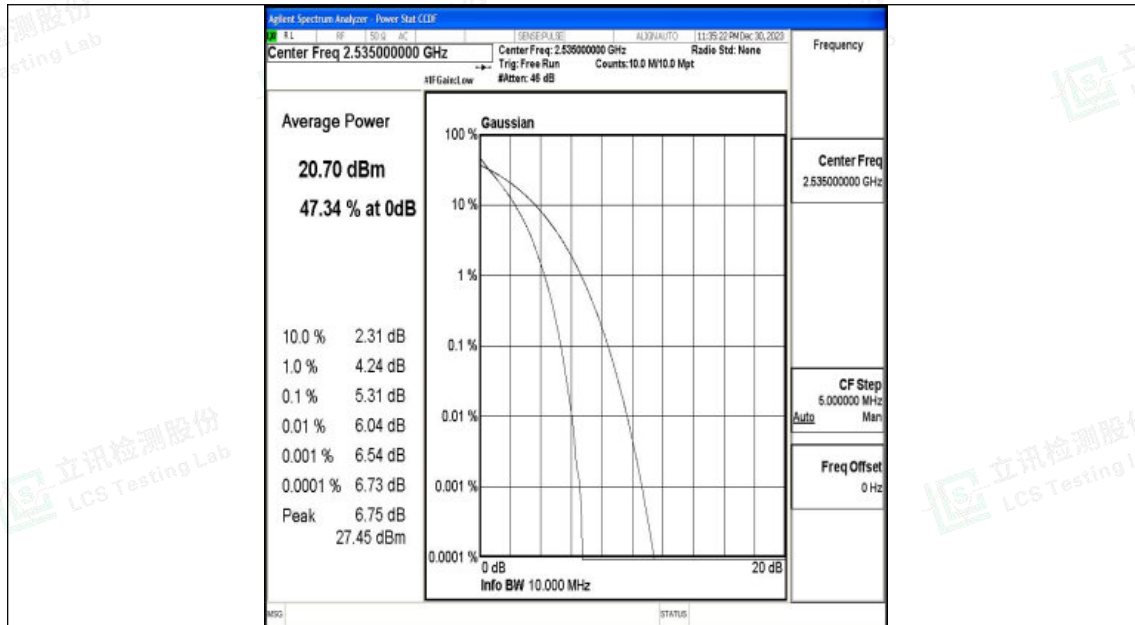


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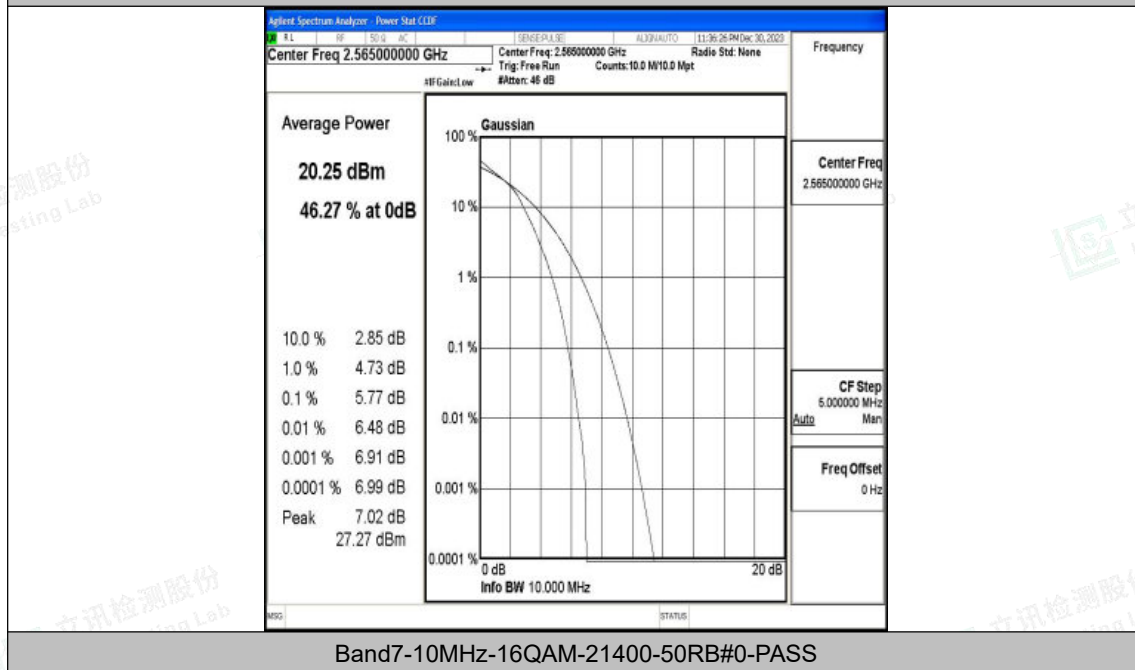
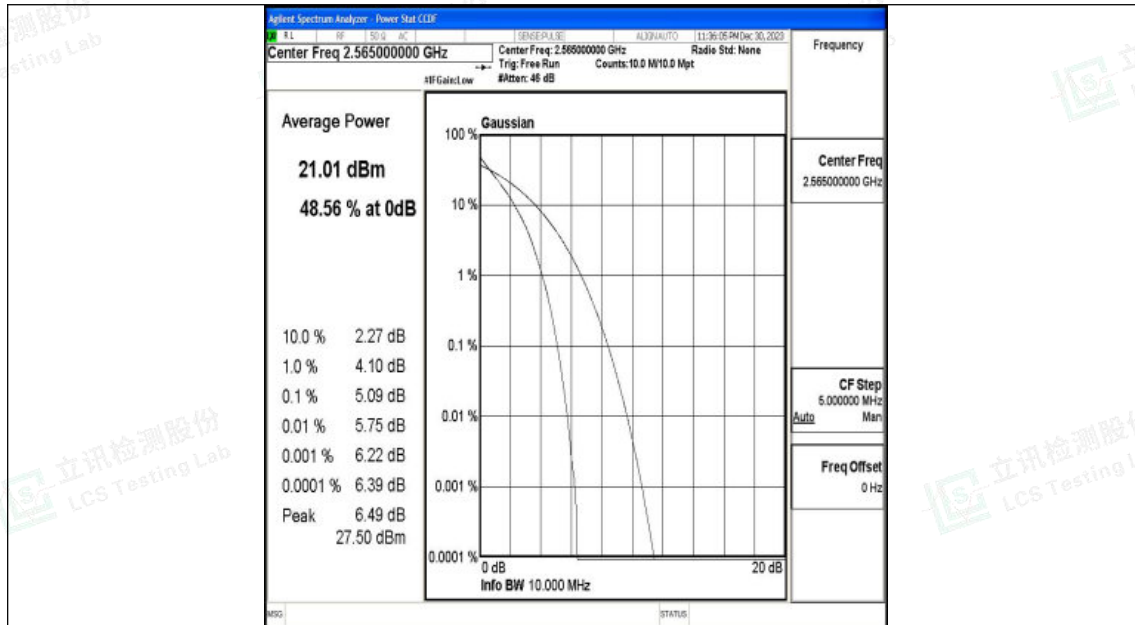


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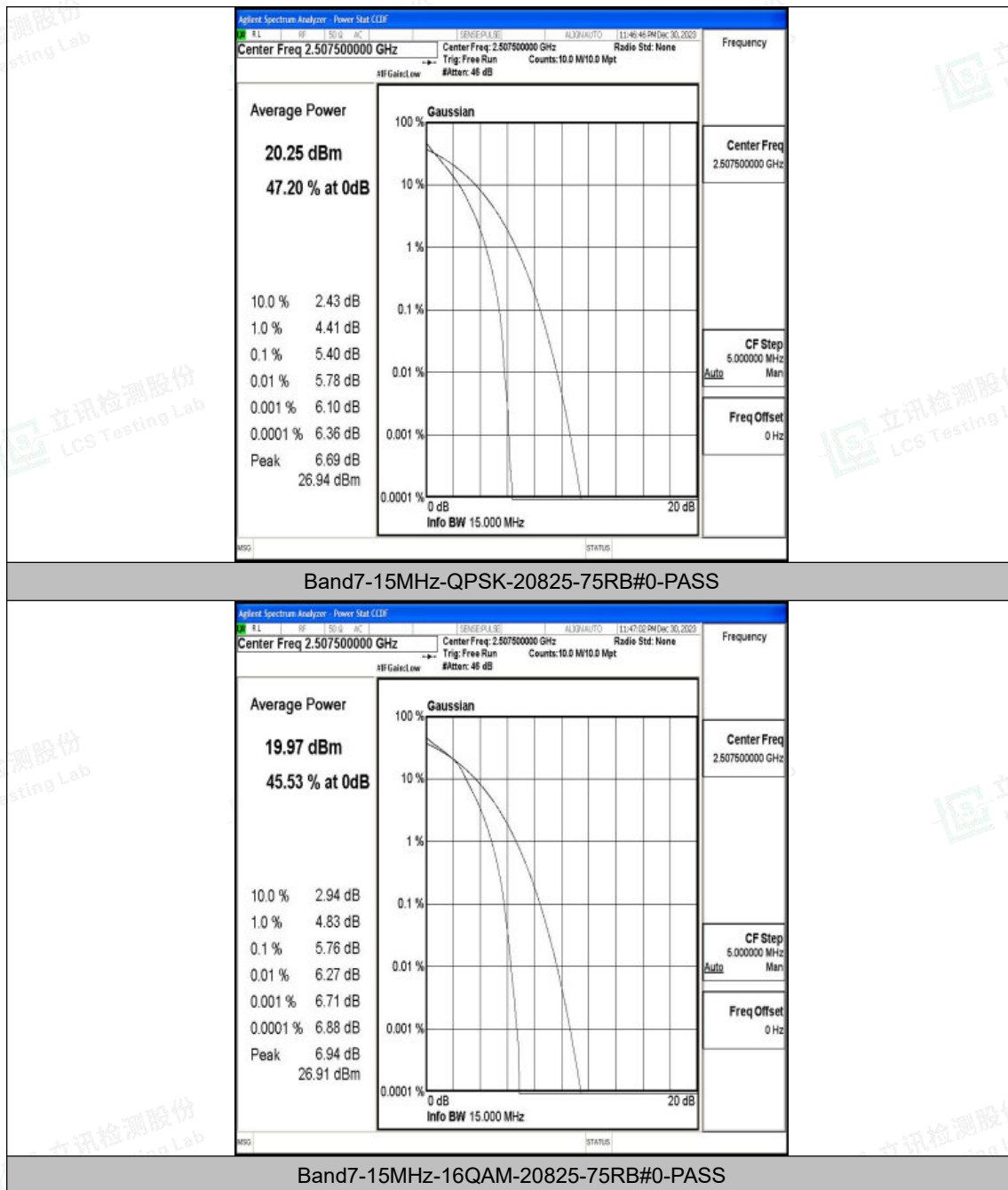


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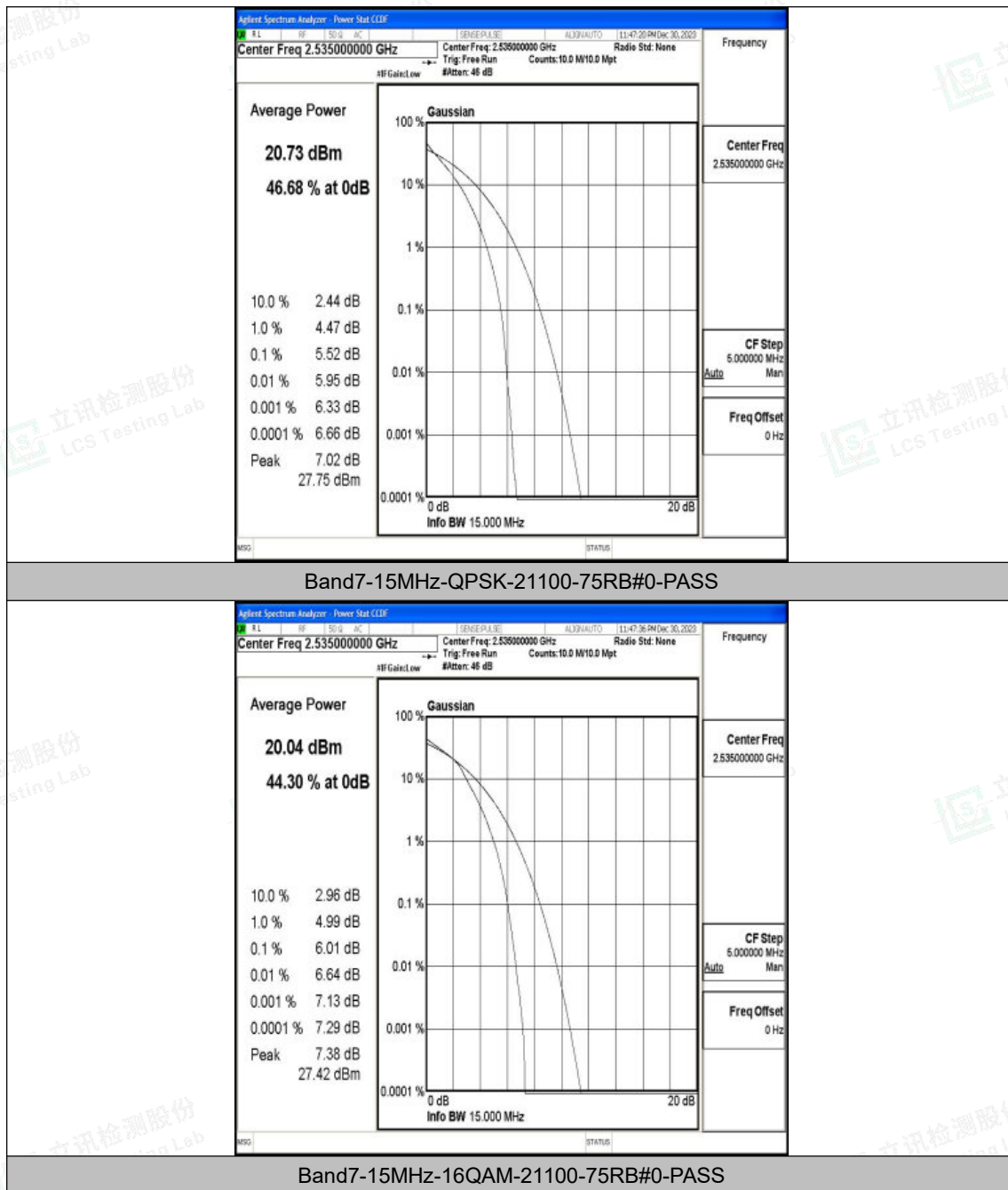


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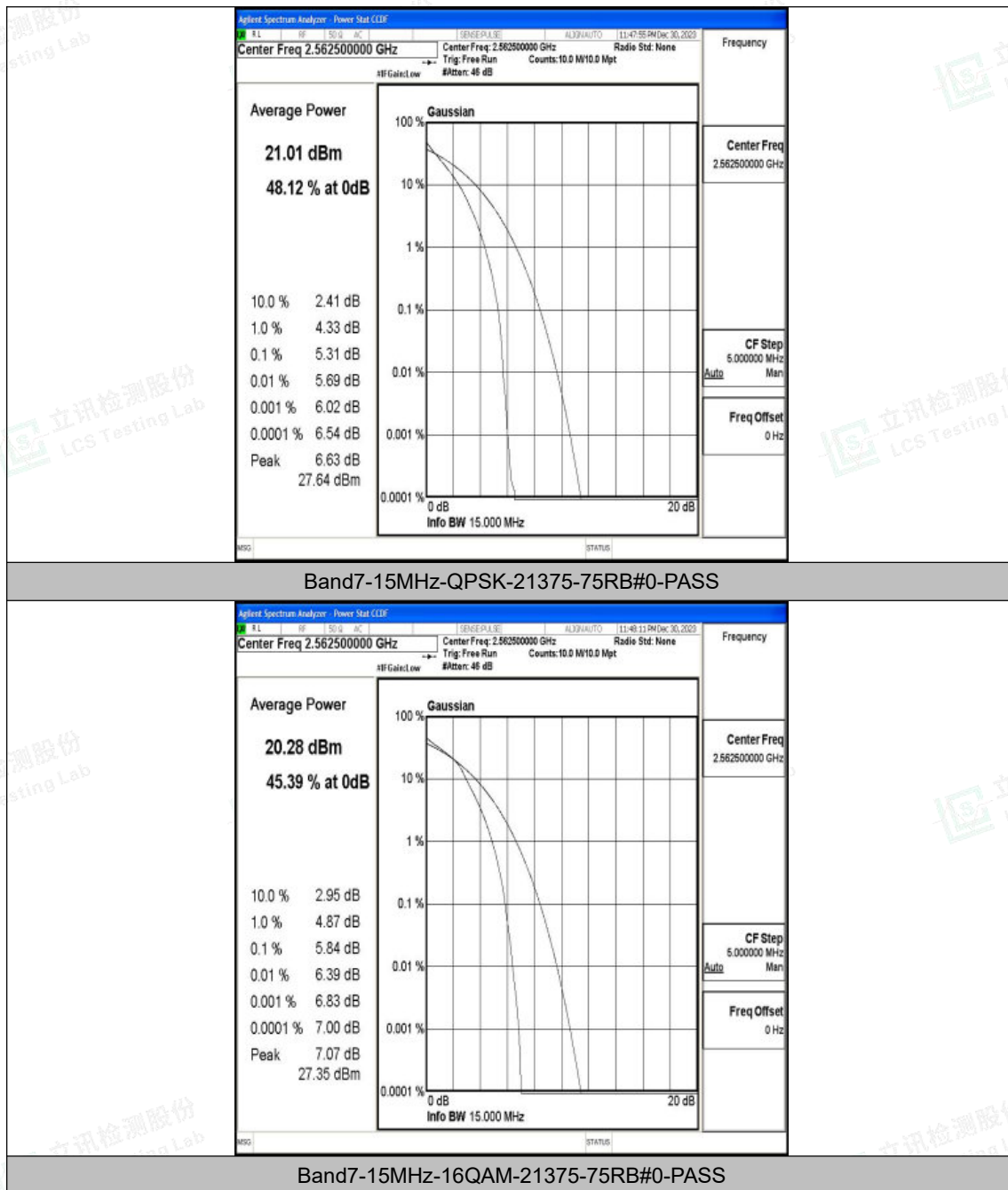


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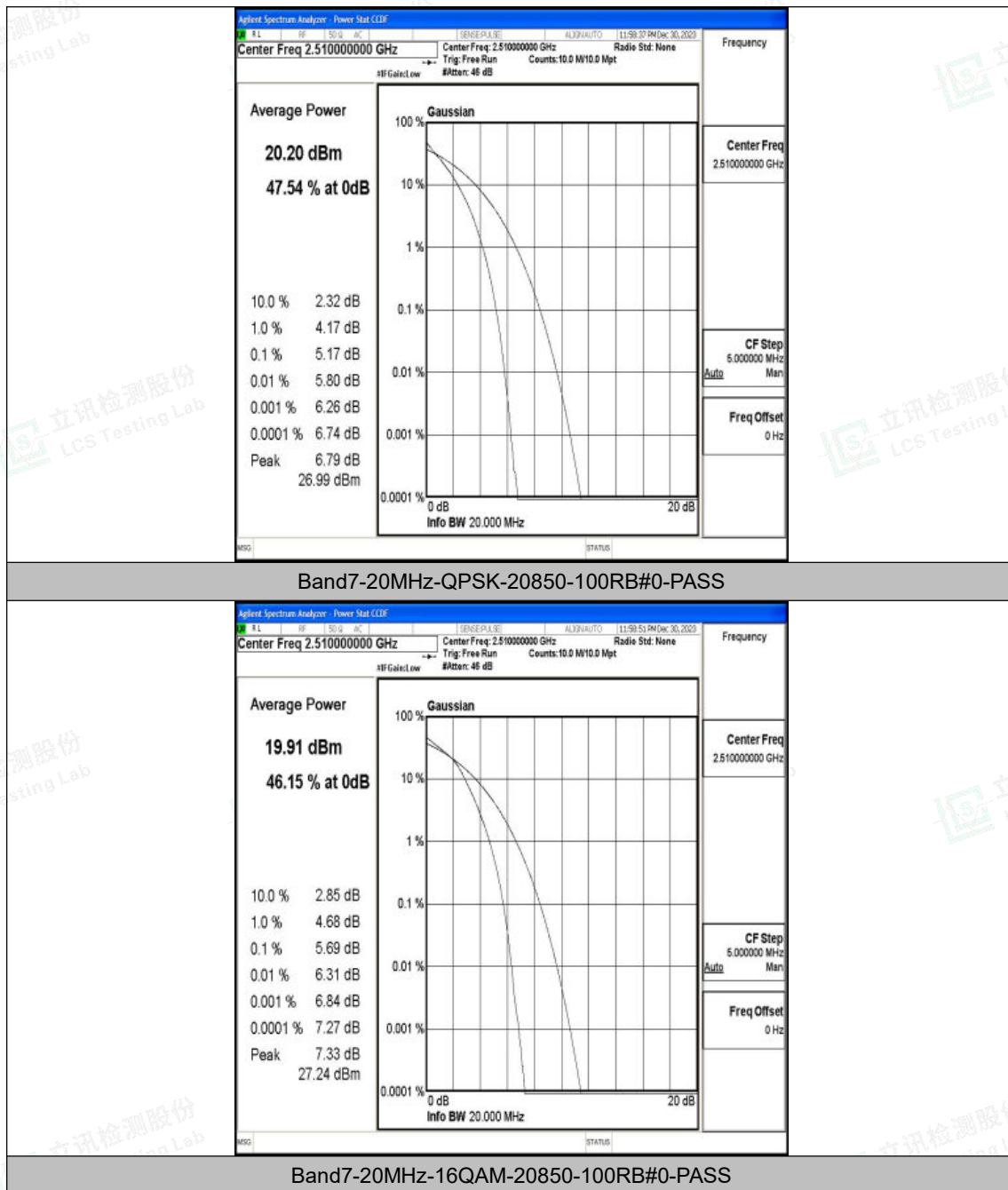


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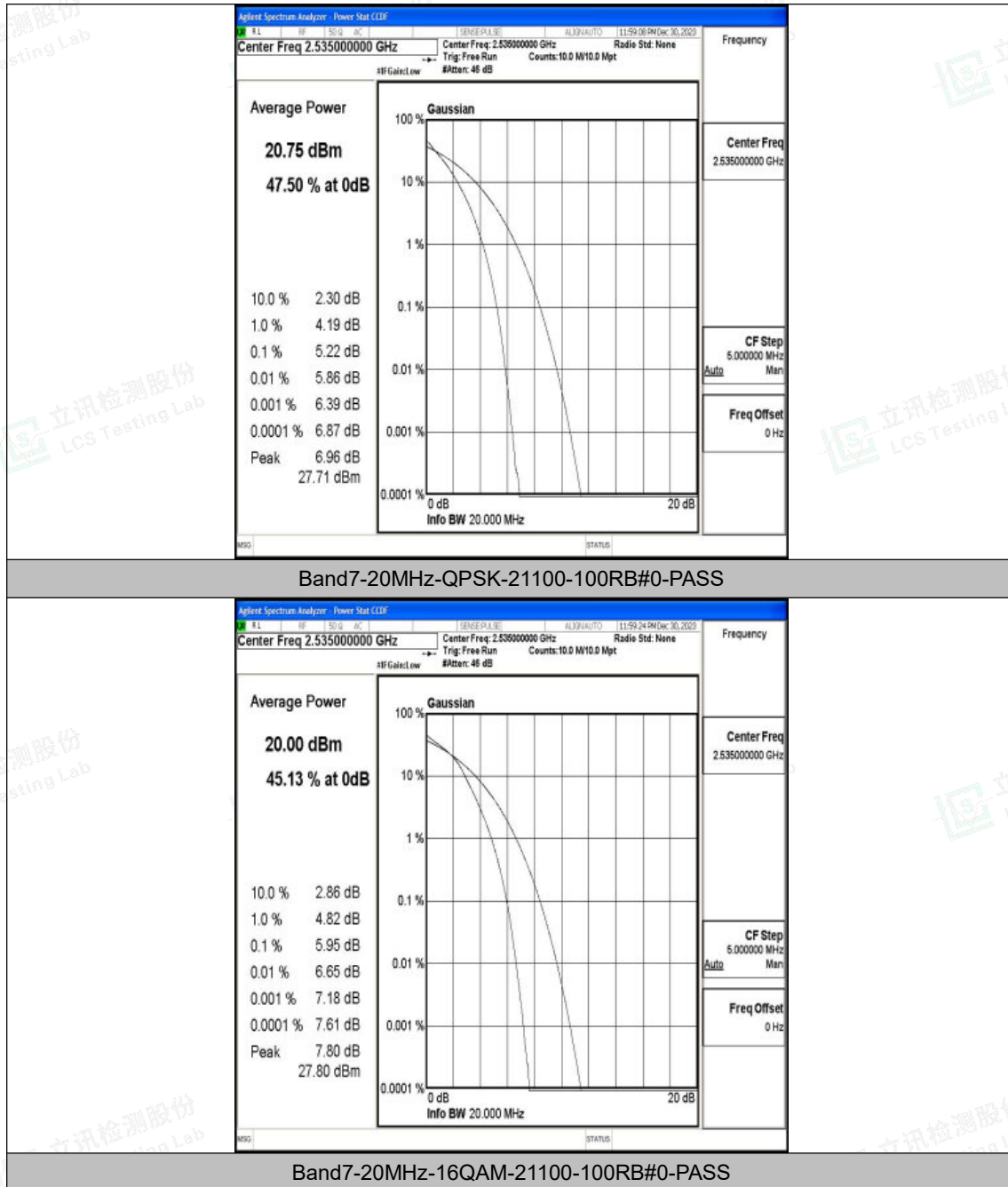


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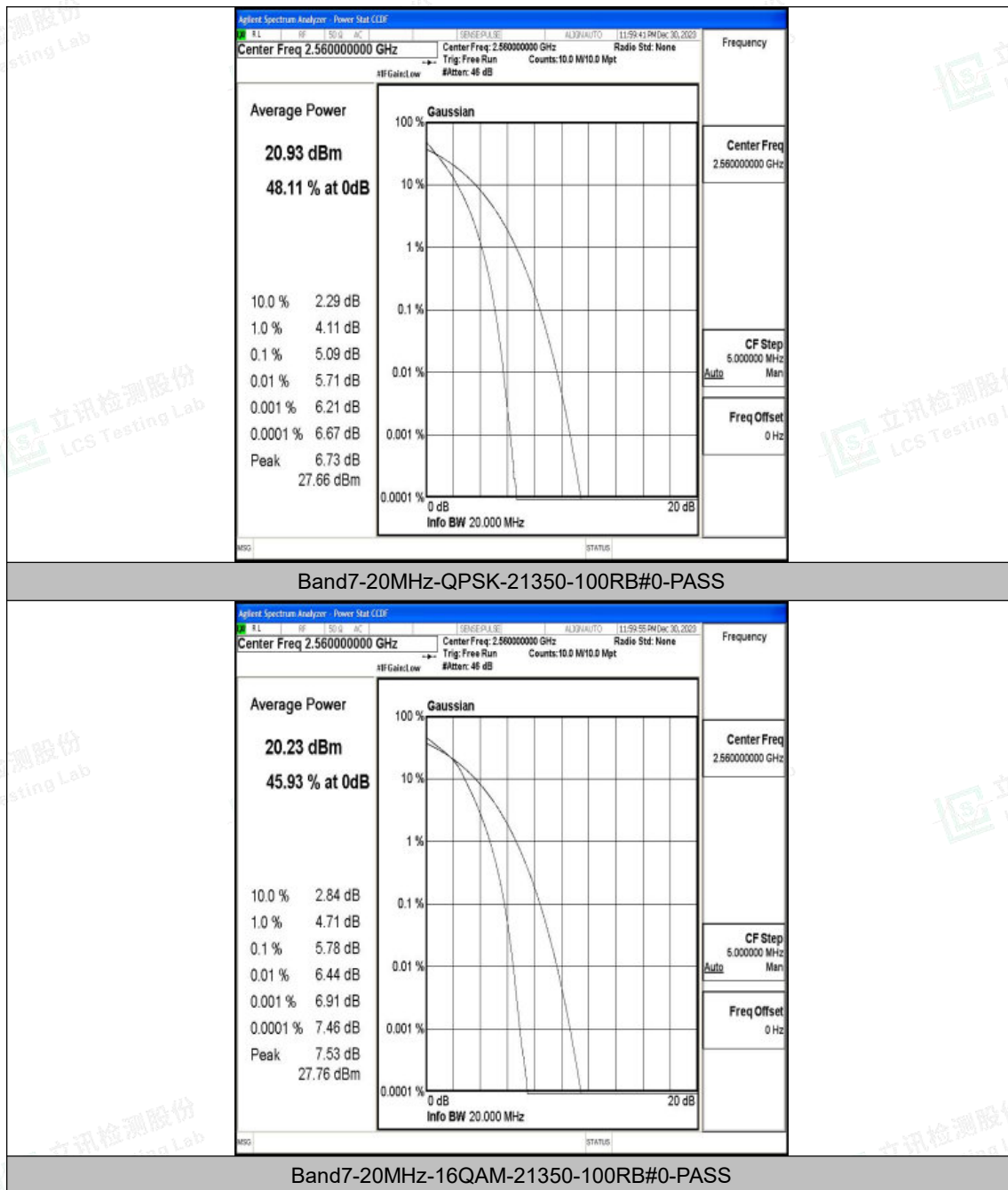


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J.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5187	5.371	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5167	5.214	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5321	5.323	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5215	5.226	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5170	5.424	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5326	5.288	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0087	10.11	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9999	10.17	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9865	10.11	PASS
Band7	10MHz	16QAM	21100	50RB#0	9.0158	10.03	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.0123	10.07	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0112	10.71	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.514	15.52	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.531	15.32	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.513	15.02	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.90	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.496	15.49	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.519	15.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.018	19.97	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.034	20.29	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.995	19.88	PASS
Band7	20MHz	16QAM	21100	100RB#0	18.023	19.88	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.036	20.52	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.007	20.49	PASS



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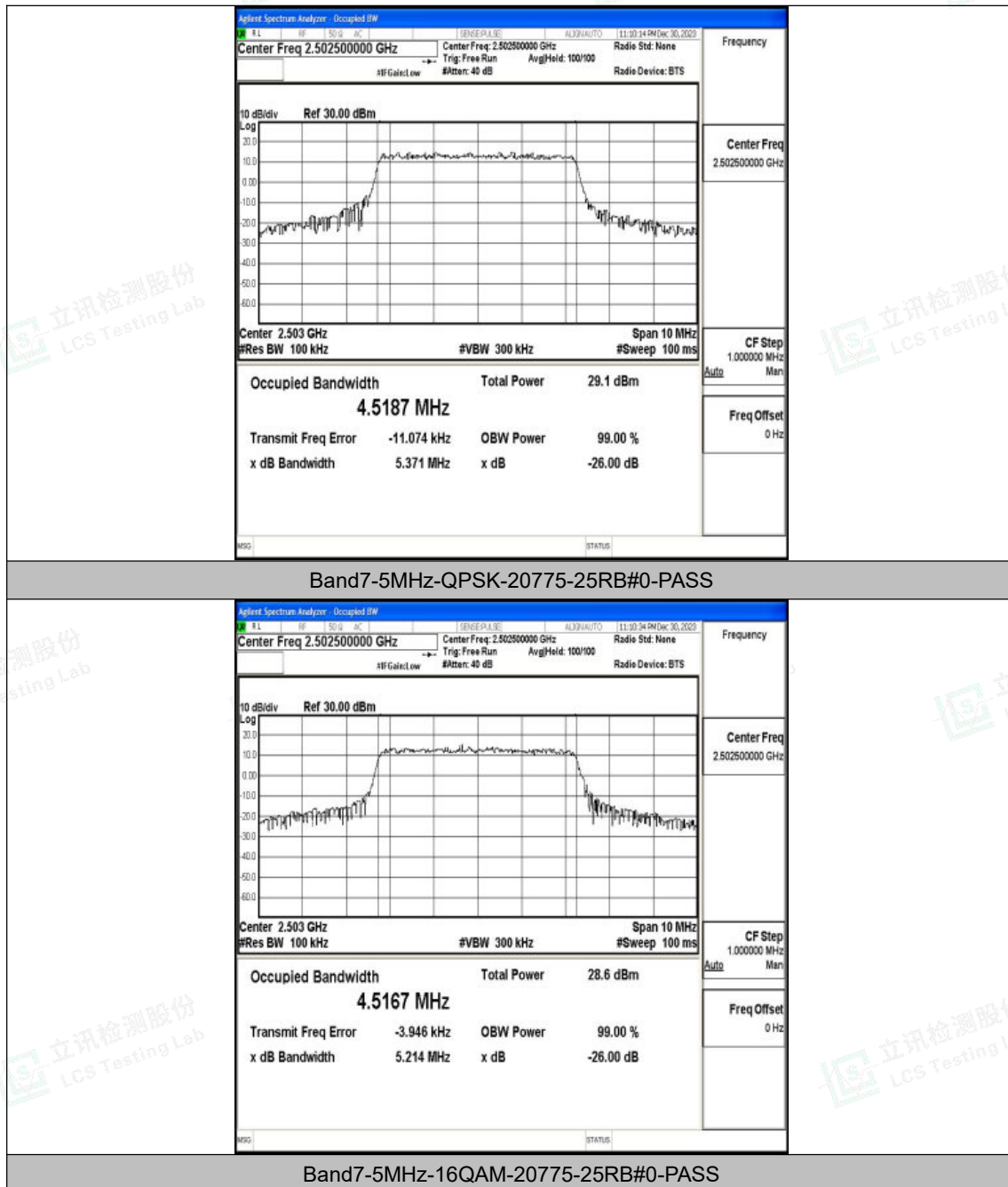
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Test Graphs

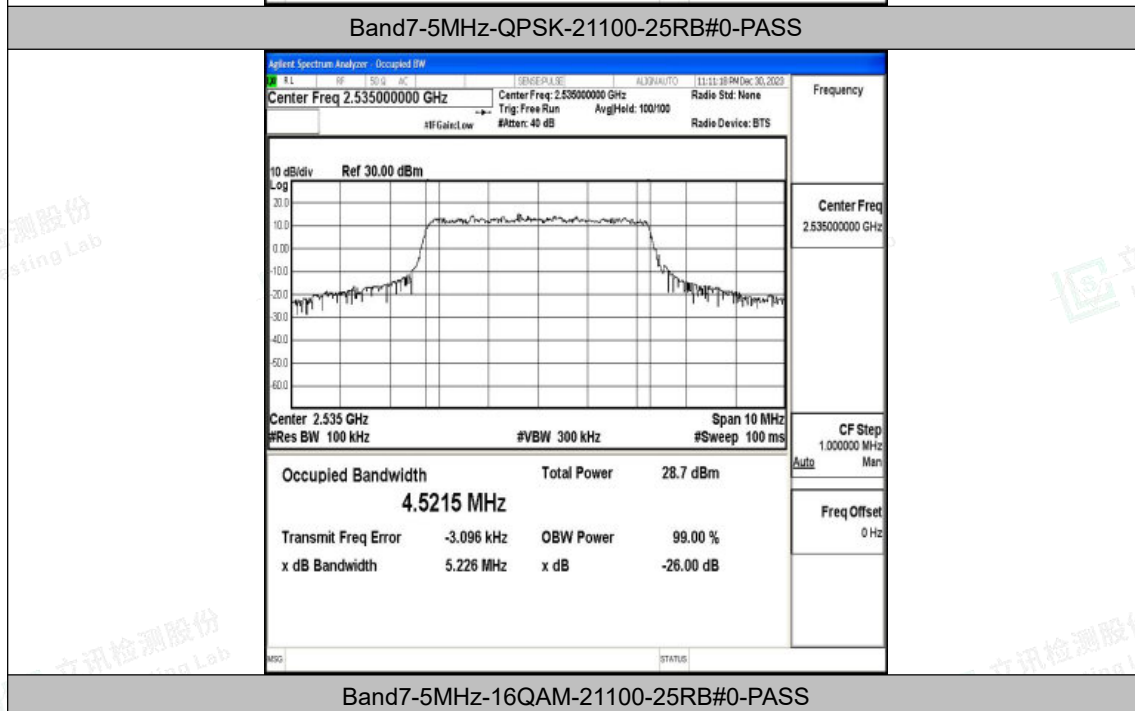
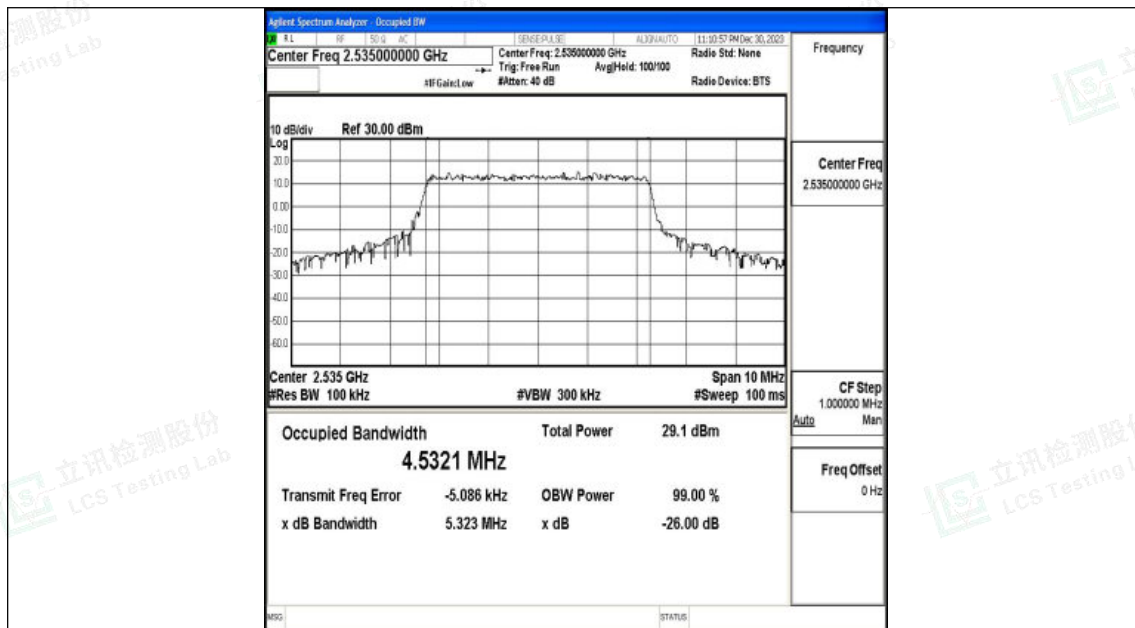


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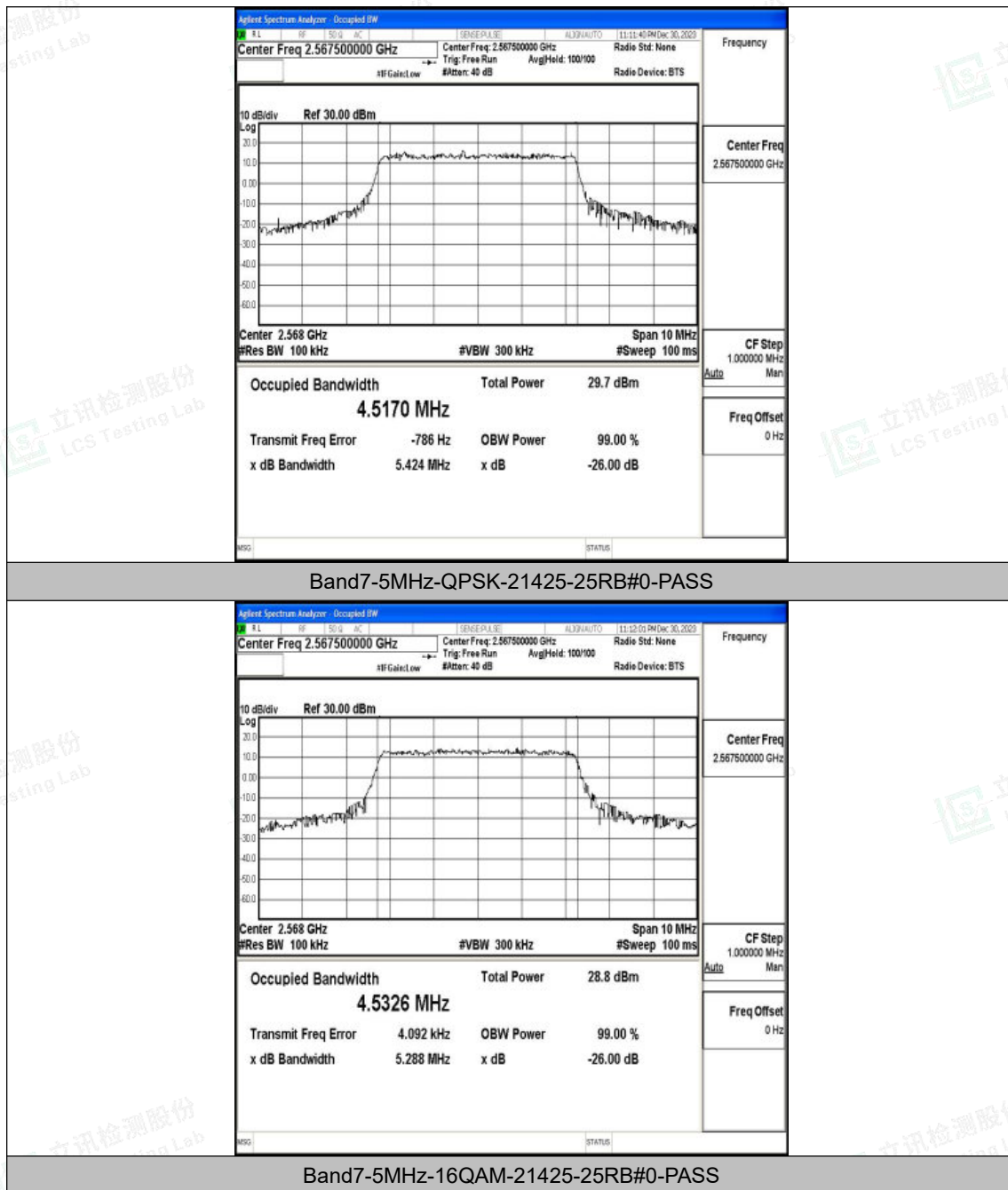


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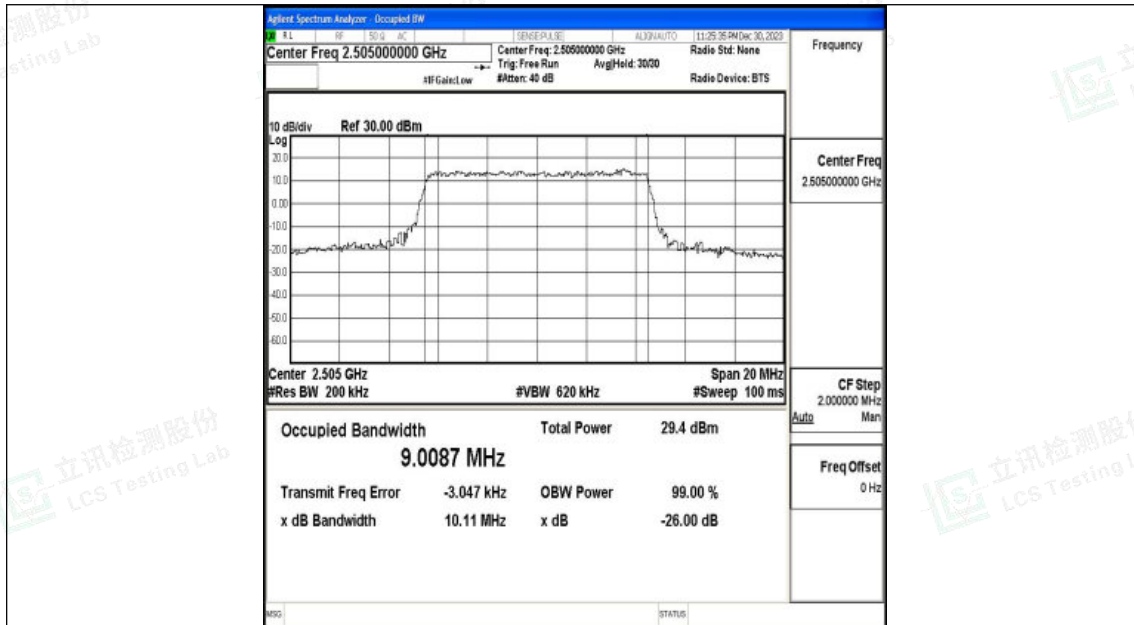


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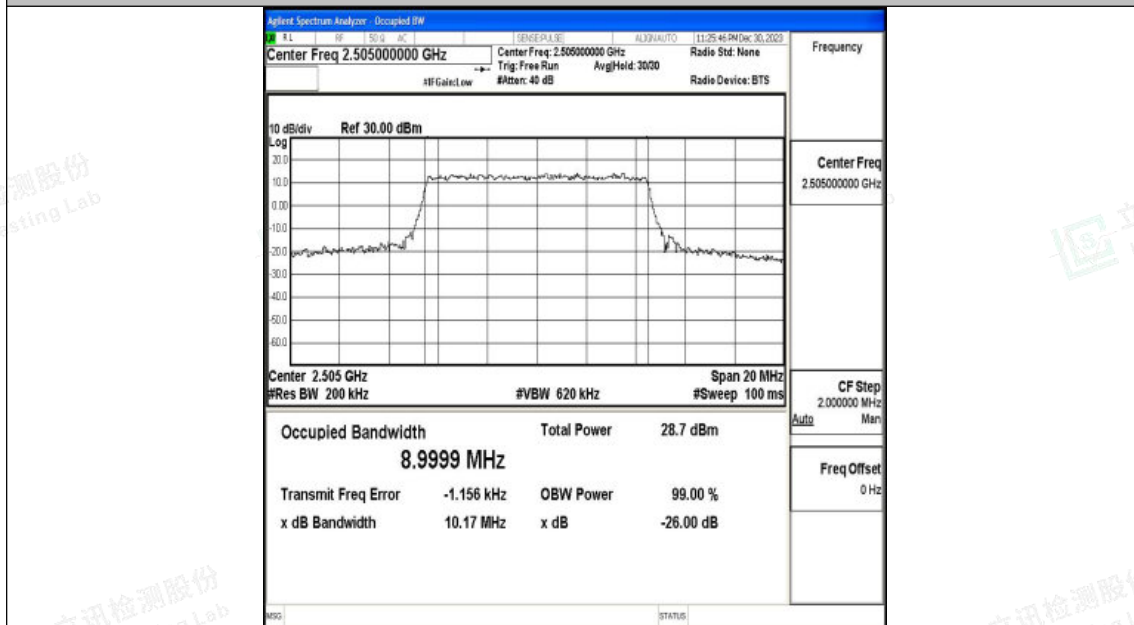
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Band7-10MHz-QPSK-20800-50RB#0-PASS



Band7-10MHz-16QAM-20800-50RB#0-PASS

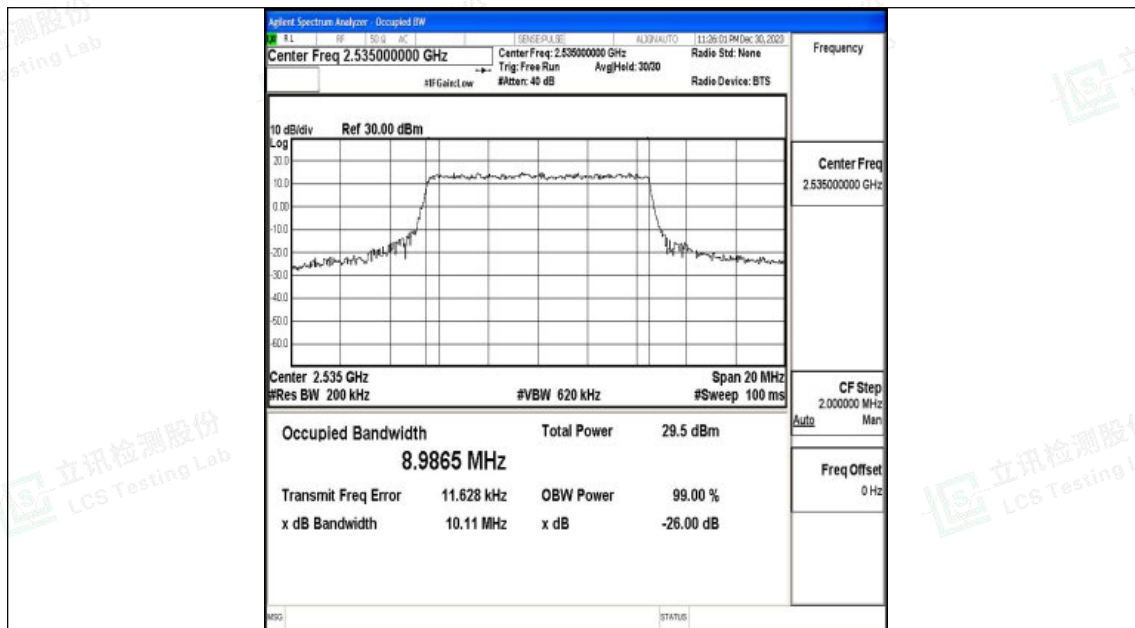


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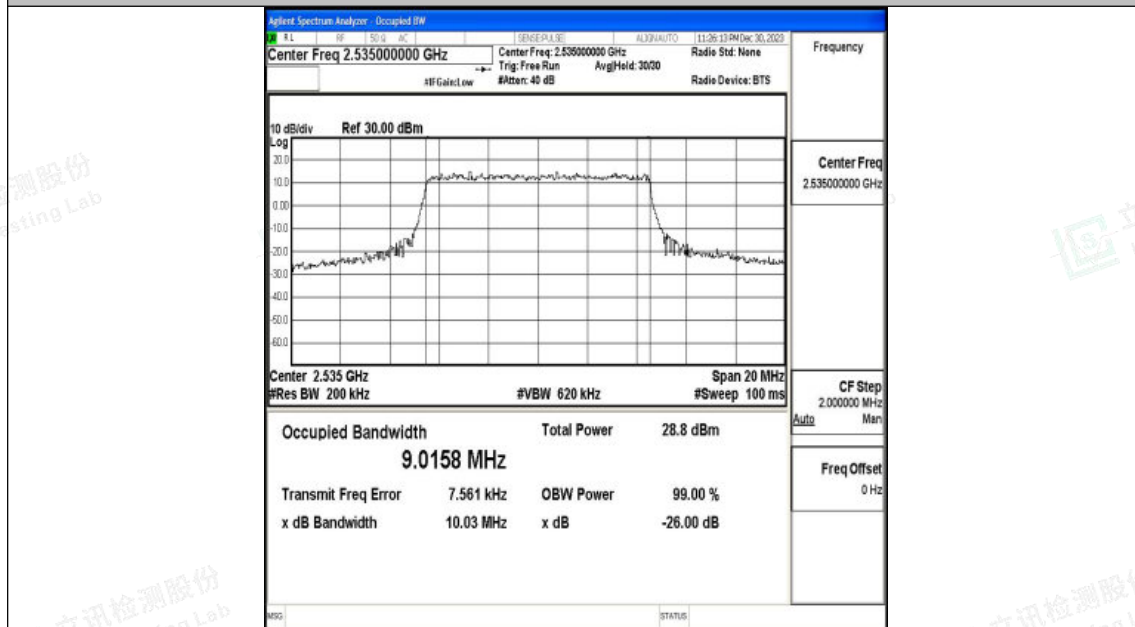
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Band7-10MHz-QPSK-21100-50RB#0-PASS



Band7-10MHz-16QAM-21100-50RB#0-PASS

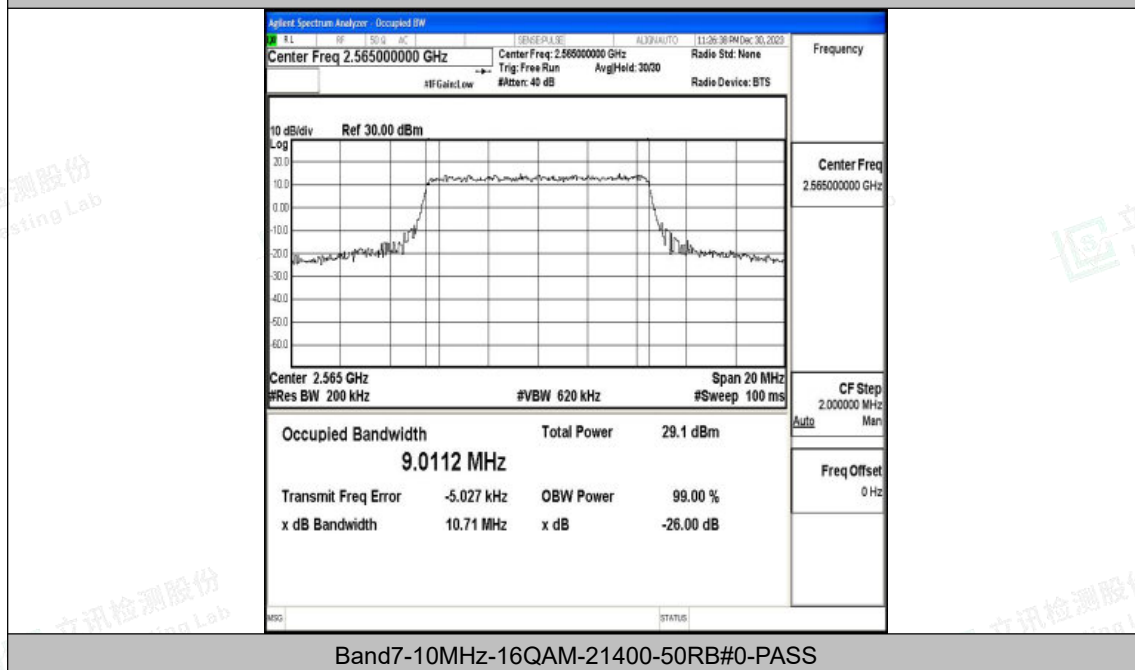
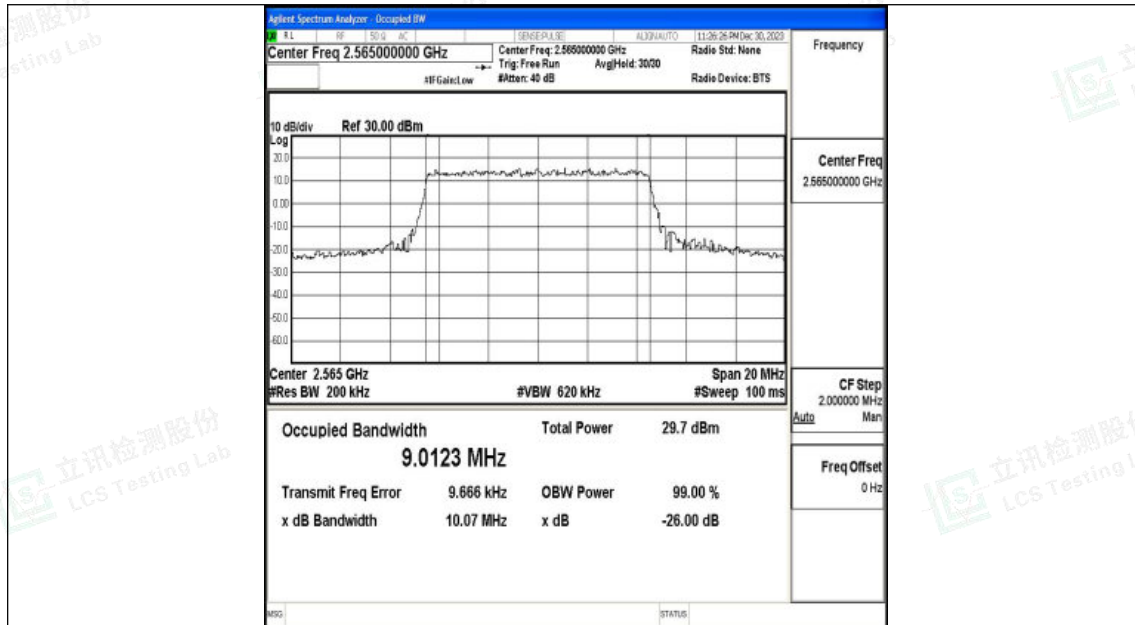


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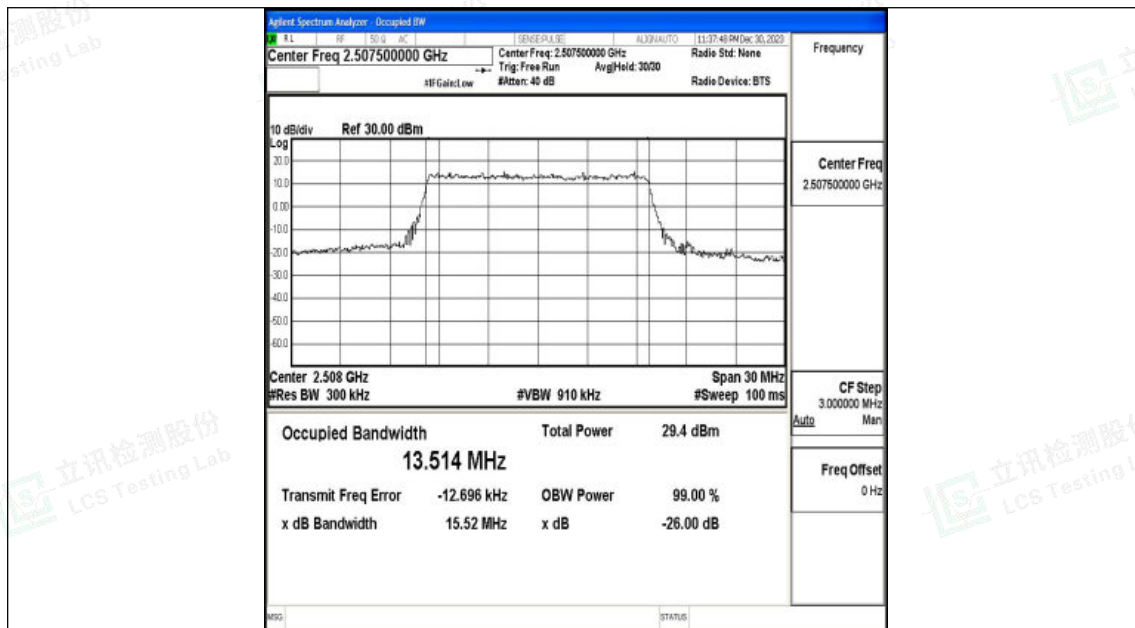


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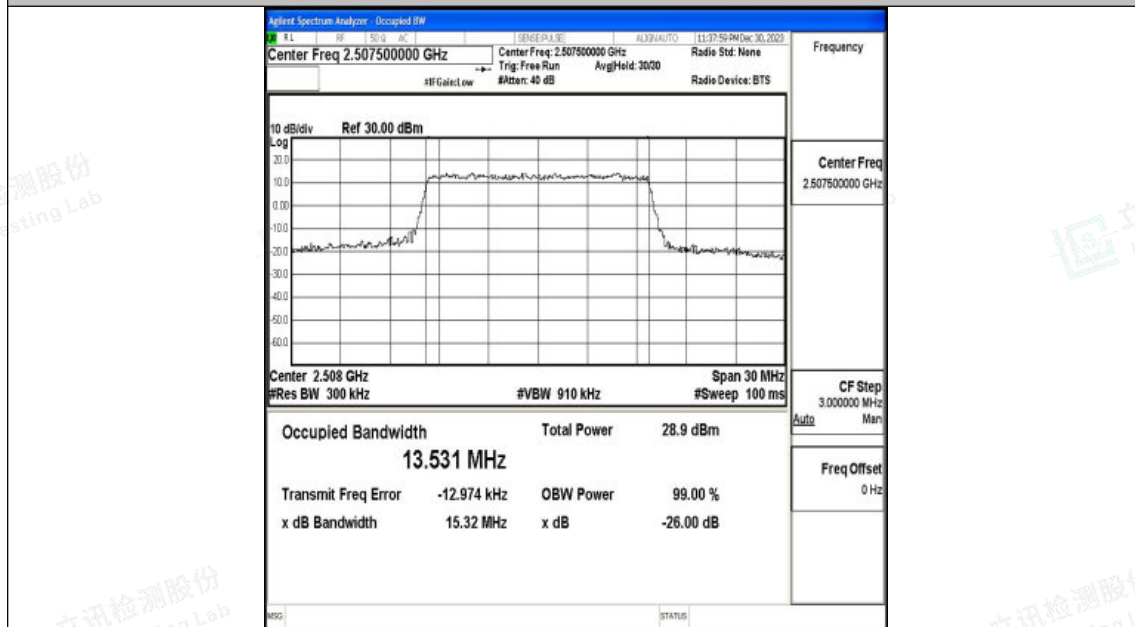
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Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-16QAM-20825-75RB#0-PASS

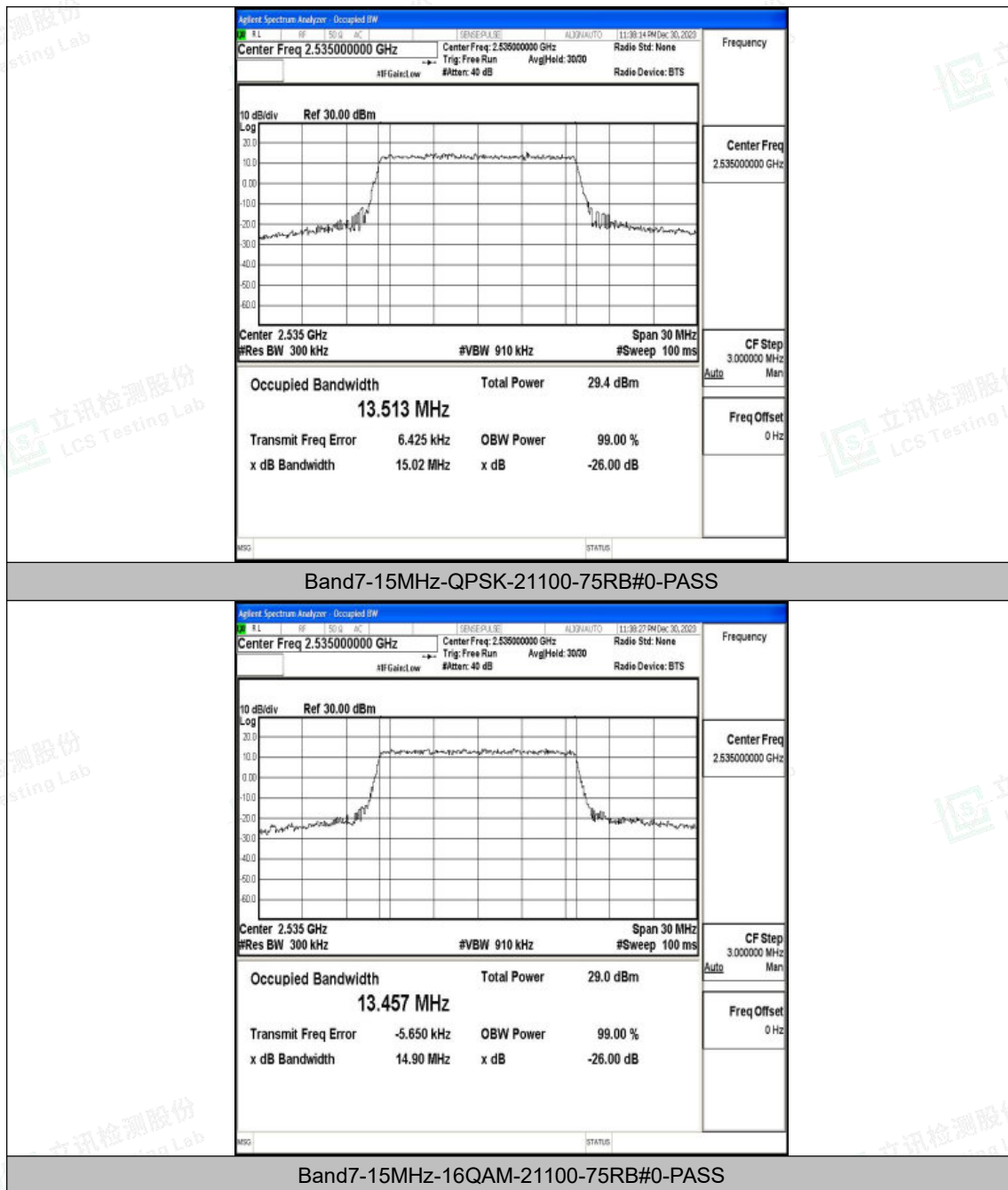


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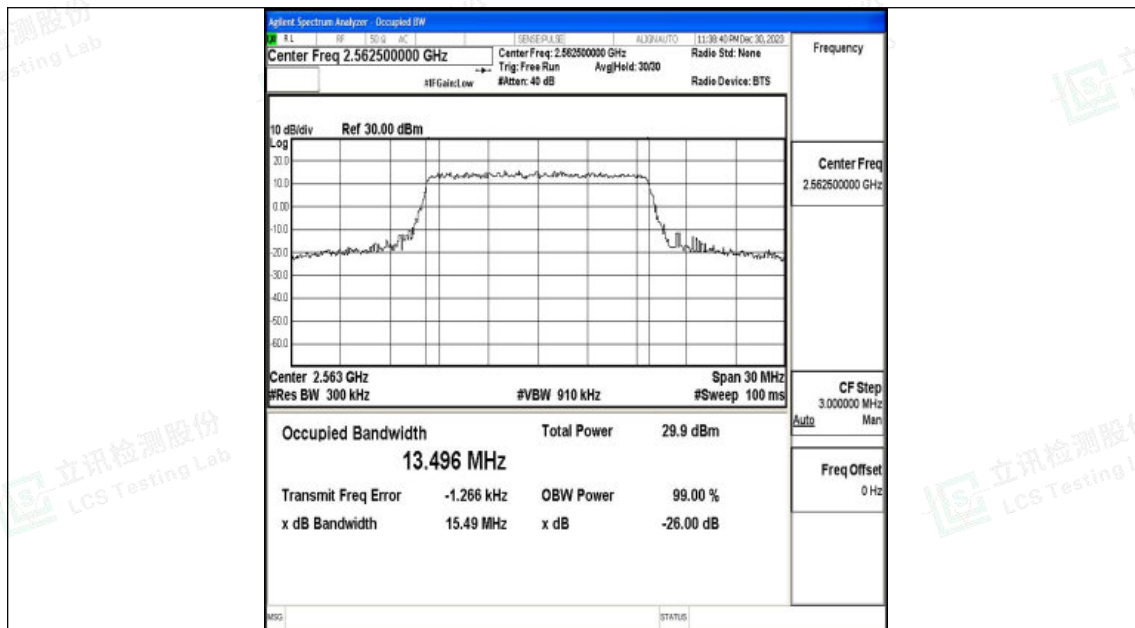


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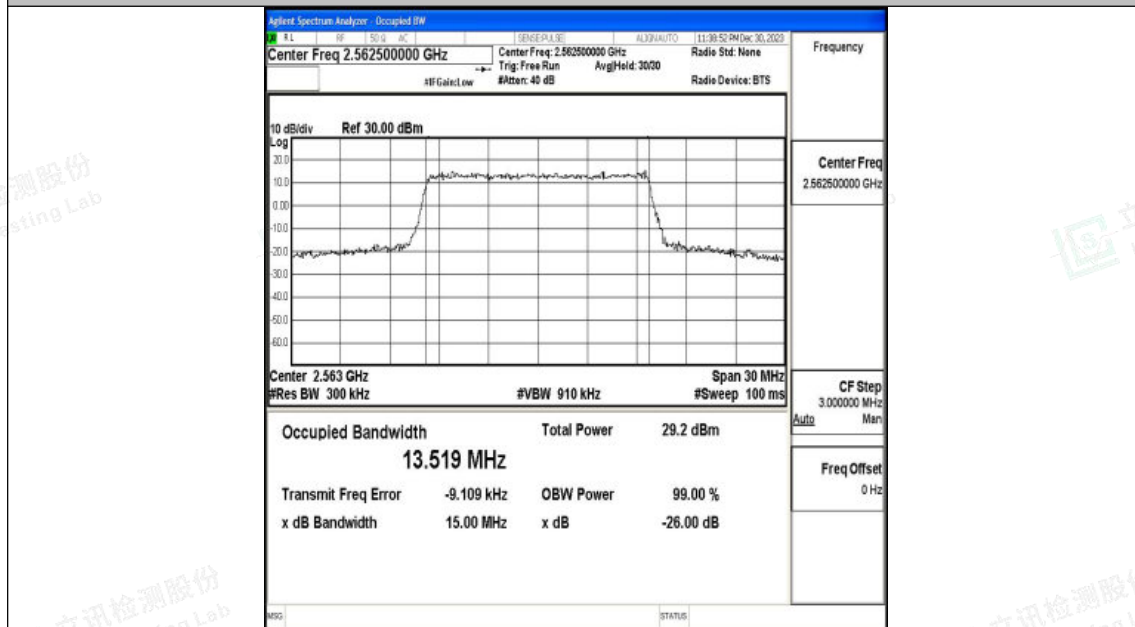
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Band7-15MHz-QPSK-21375-75RB#0-PASS



Band7-15MHz-16QAM-21375-75RB#0-PASS

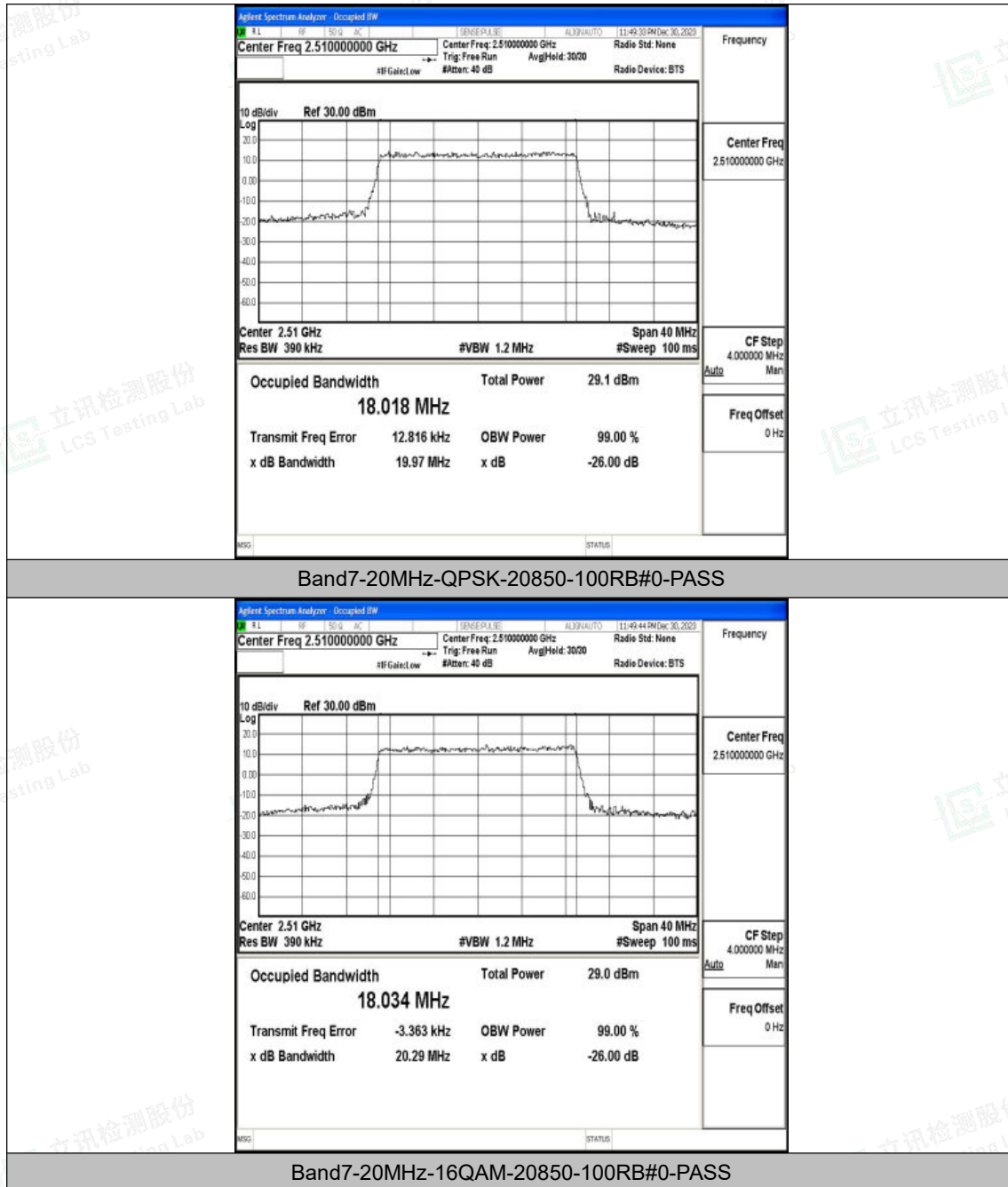


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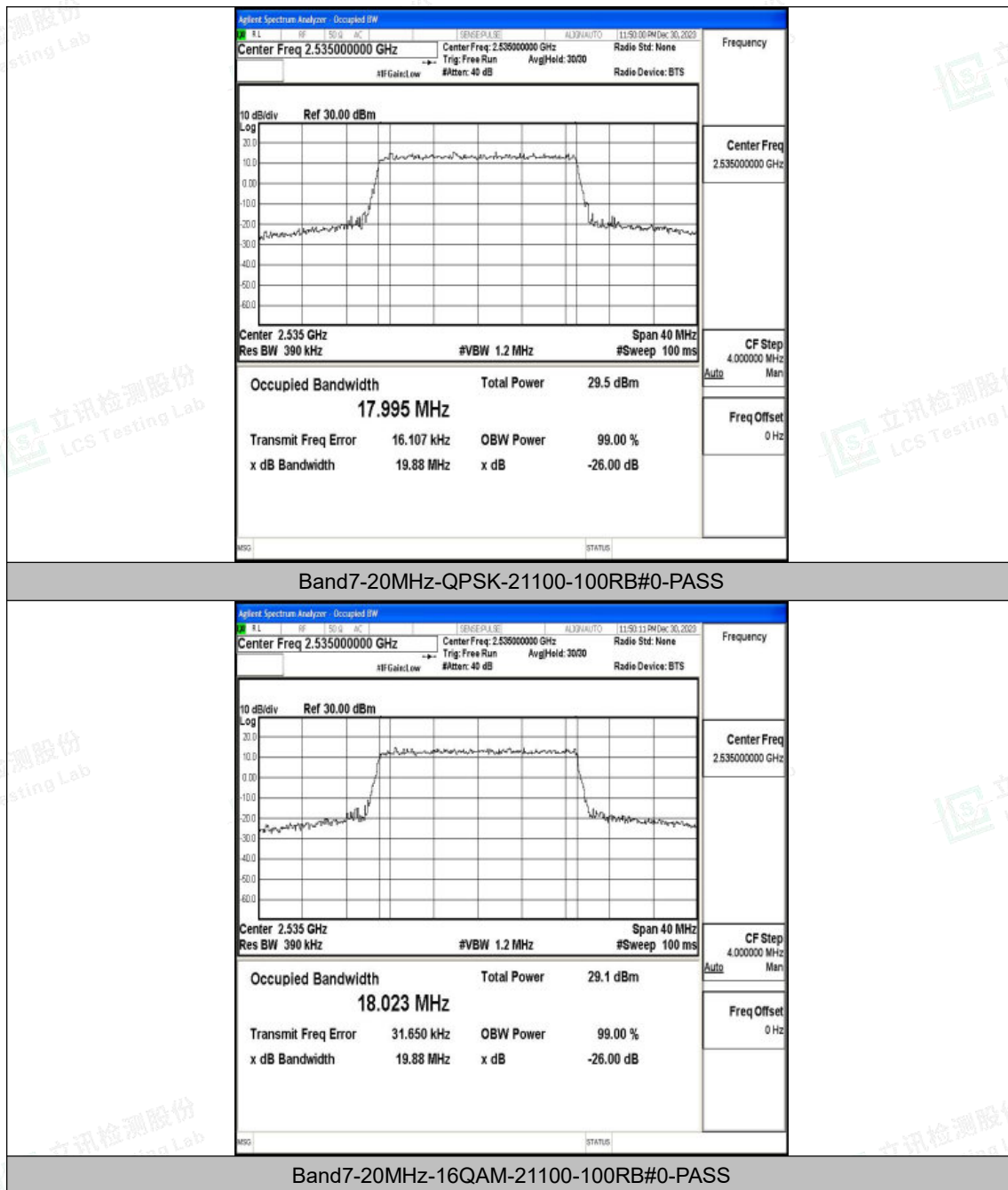


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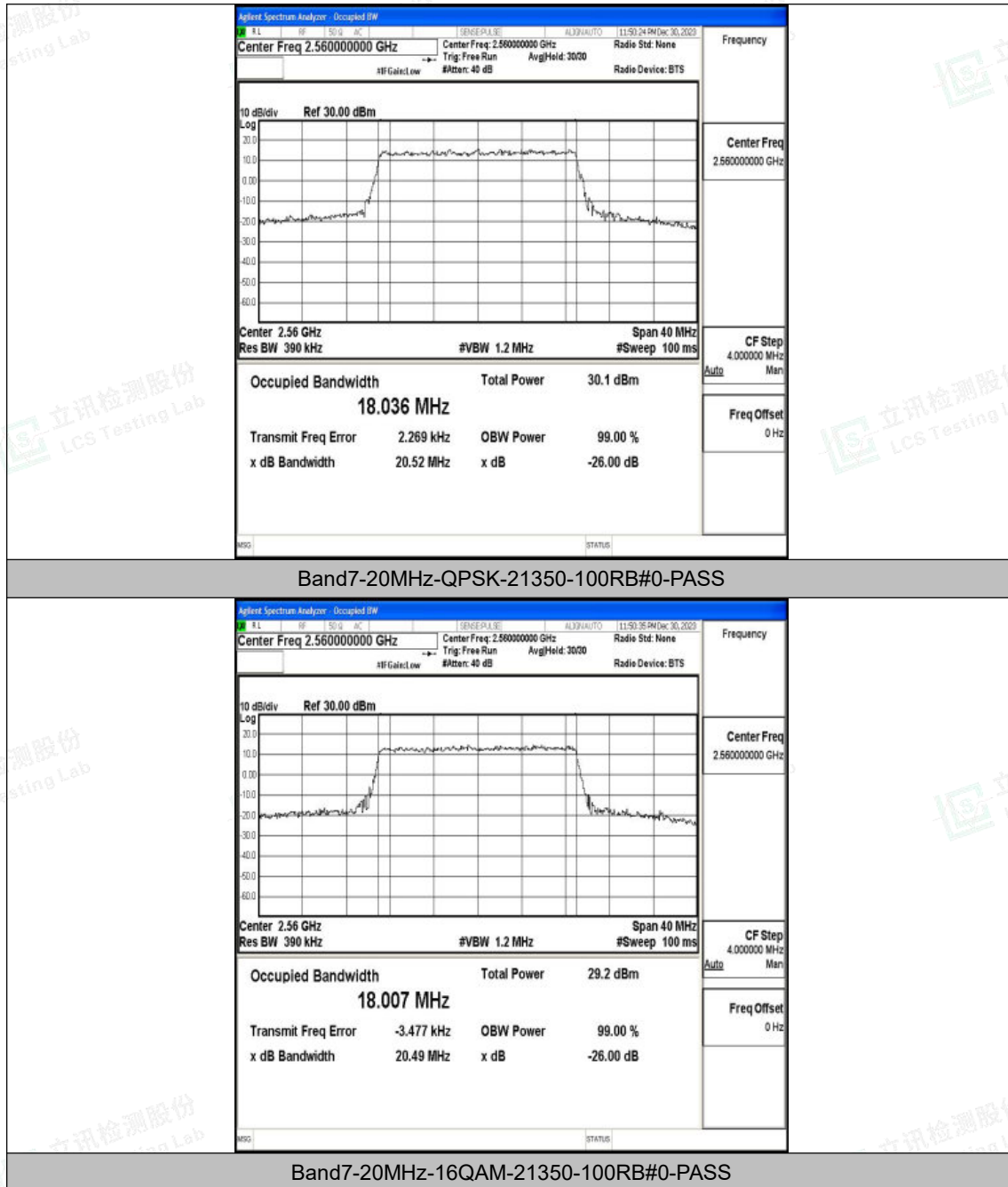


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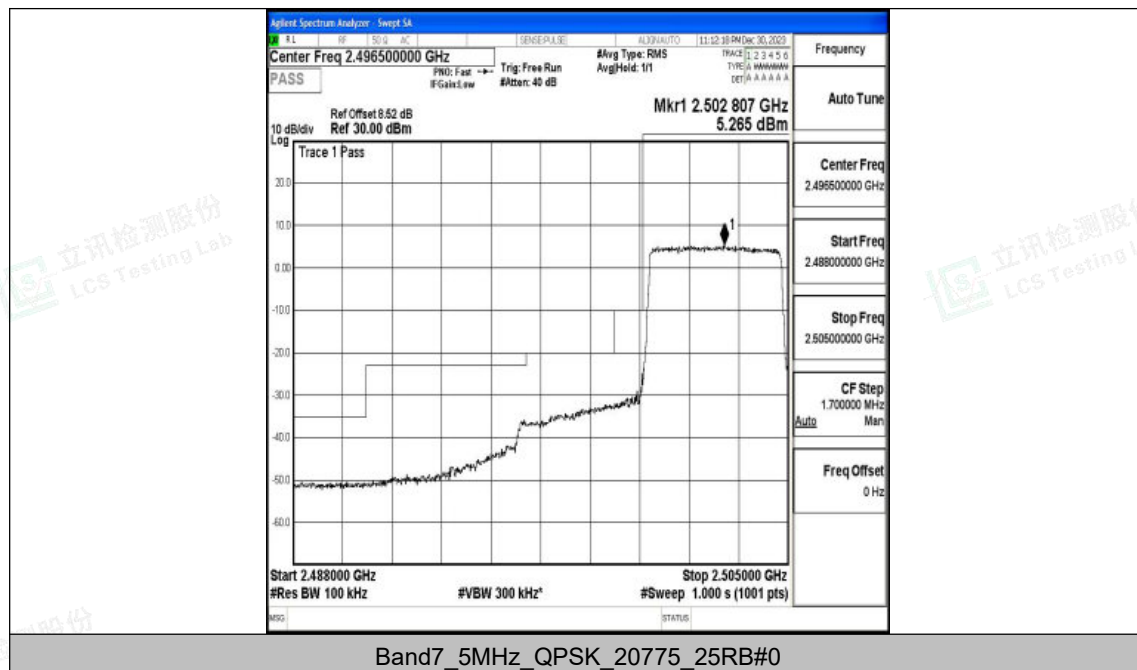


J.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	2498.88	-32.24	PASS
Band7	5MHz	16QAM	20775	25RB#0	2498.88	-32.08	PASS
Band7	5MHz	QPSK	21425	25RB#0	2576.12	-43.17	PASS
Band7	5MHz	16QAM	21425	25RB#0	2576.07	-42.27	PASS
Band7	10MHz	QPSK	20800	50RB#0	2489.75	-42.26	PASS
Band7	10MHz	16QAM	20800	50RB#0	2489.95	-41.54	PASS
Band7	10MHz	QPSK	21400	50RB#0	2580.00	-42.36	PASS
Band7	10MHz	16QAM	21400	50RB#0	2580.05	-40.77	PASS
Band7	15MHz	QPSK	20825	75RB#0	2493.76	-27.23	PASS
Band7	15MHz	16QAM	20825	75RB#0	2494.74	-27.39	PASS
Band7	15MHz	QPSK	21375	75RB#0	2585.28	-41.30	PASS
Band7	15MHz	16QAM	21375	75RB#0	2585.21	-40.51	PASS
Band7	20MHz	QPSK	20850	100RB#0	2493.05	-27.53	PASS
Band7	20MHz	16QAM	20850	100RB#0	2493.81	-27.22	PASS
Band7	20MHz	QPSK	21350	100RB#0	2575.38	-30.76	PASS
Band7	20MHz	16QAM	21350	100RB#0	2590.05	-43.01	PASS

Test Graphs

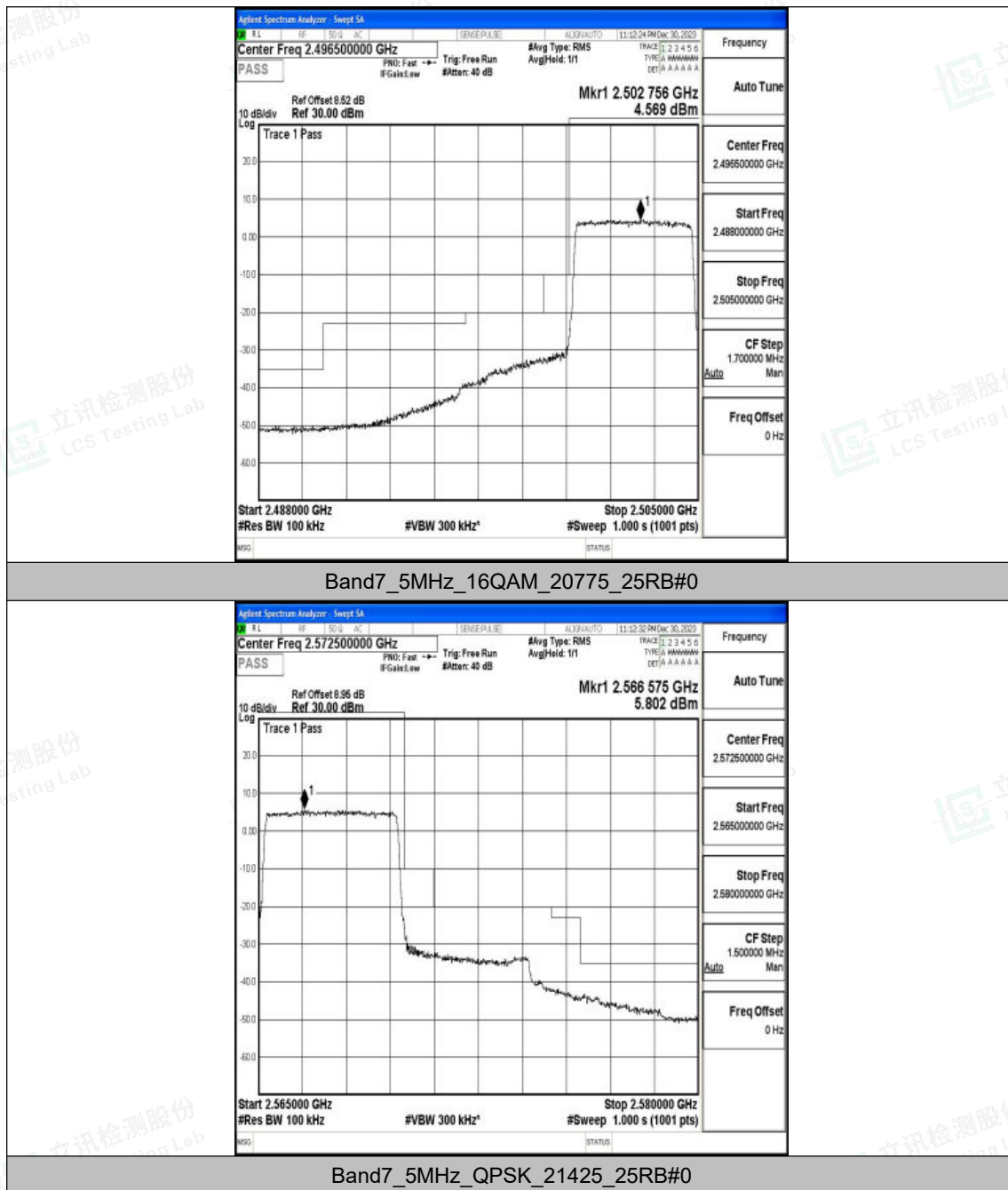


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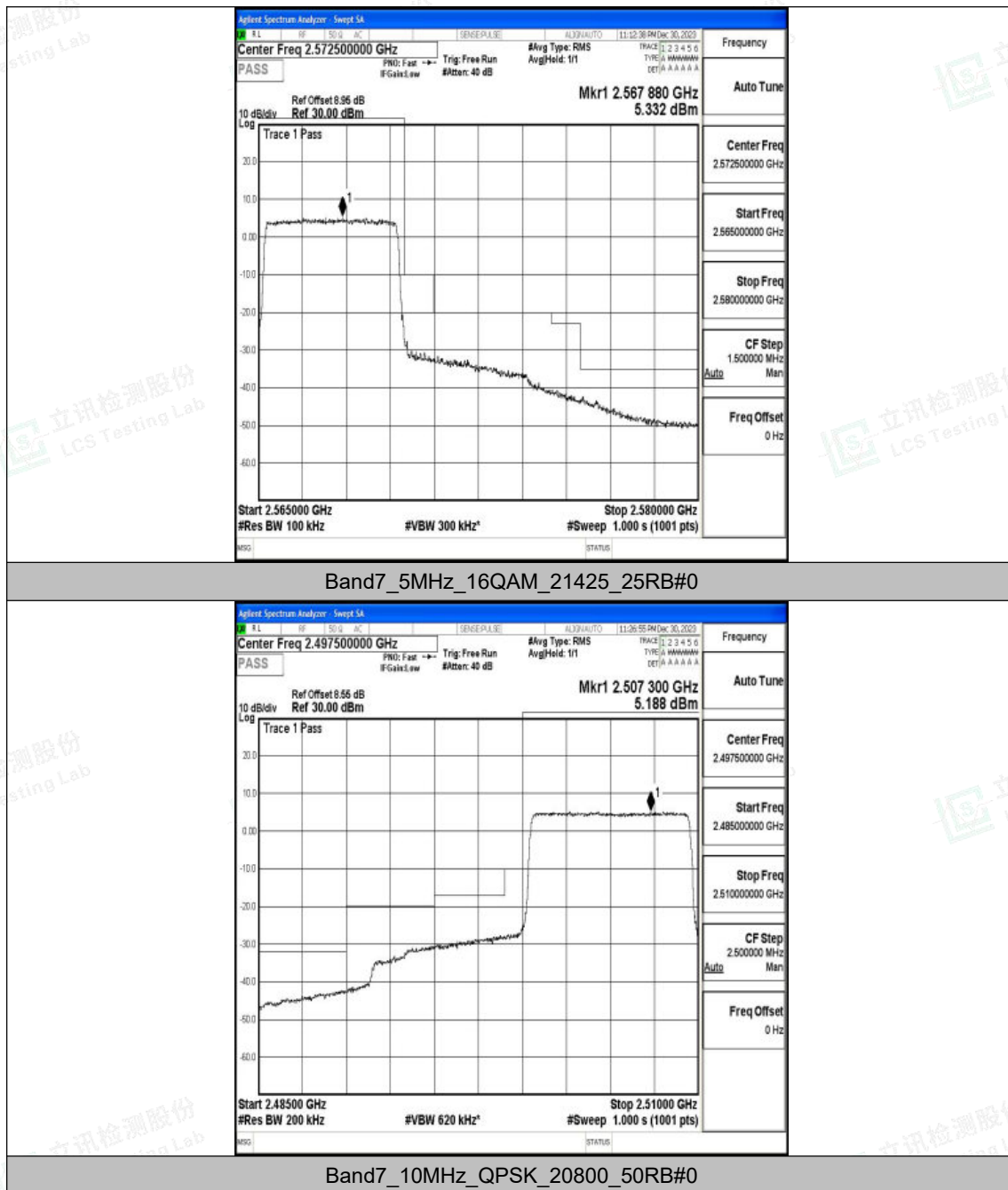


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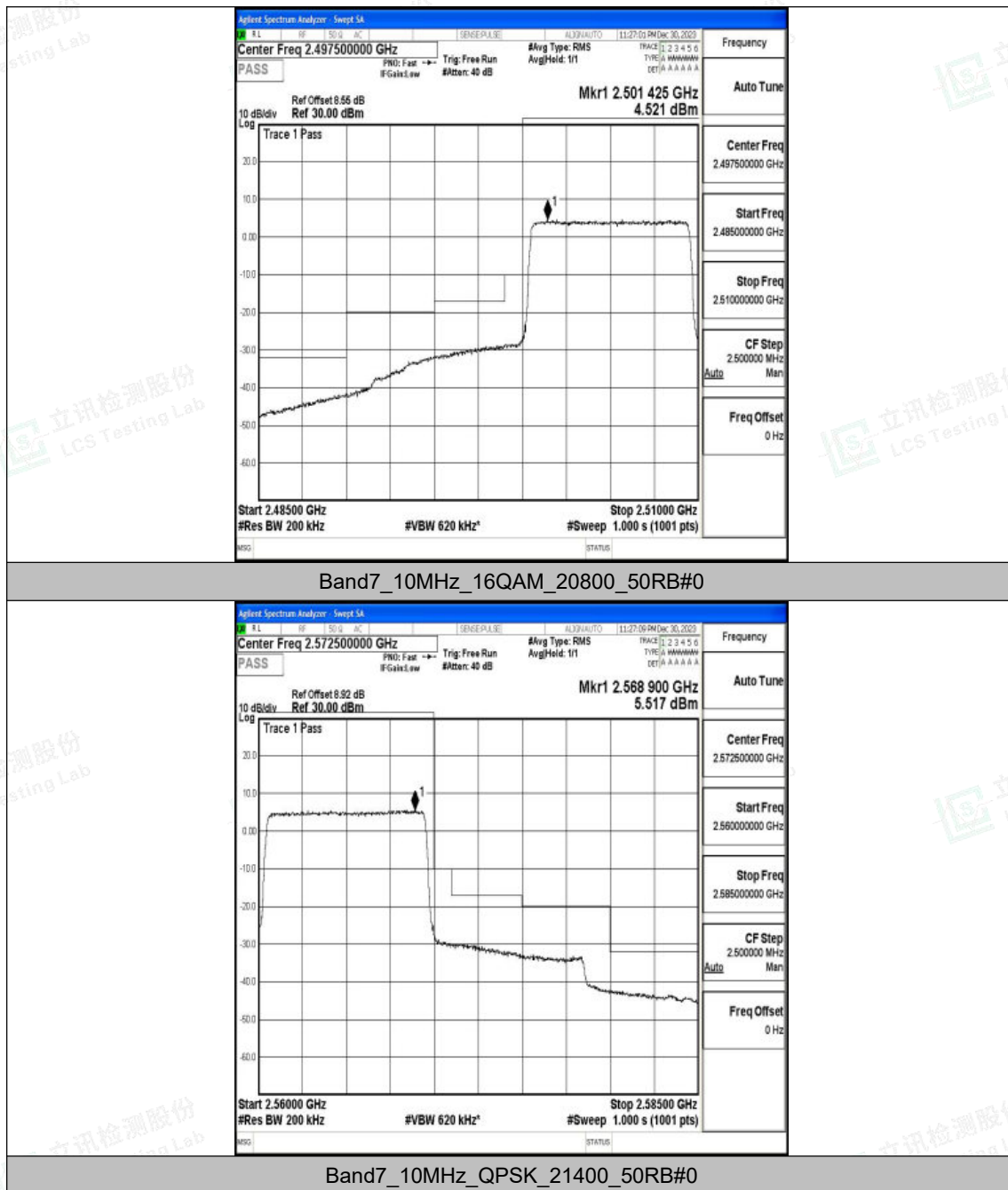


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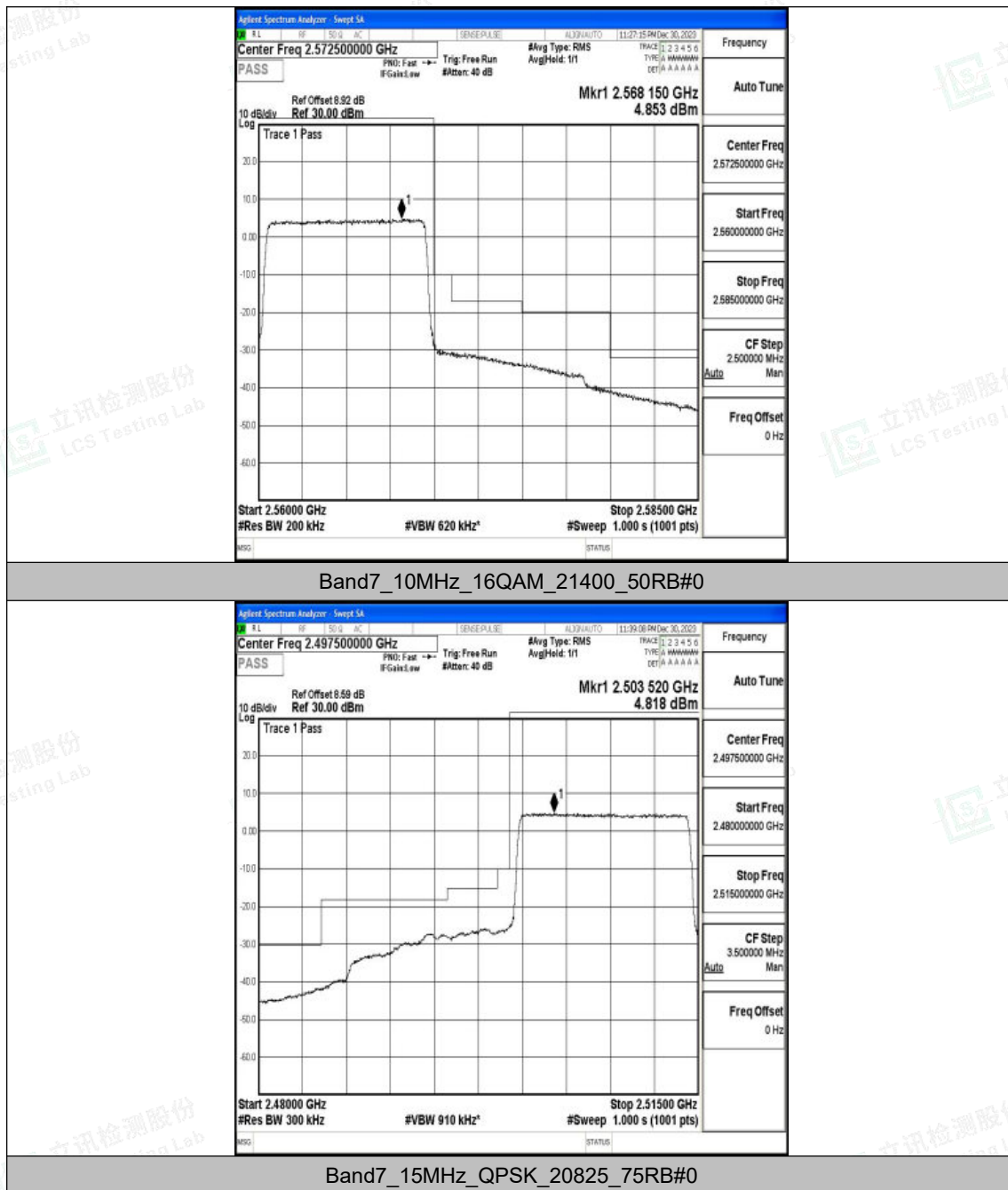


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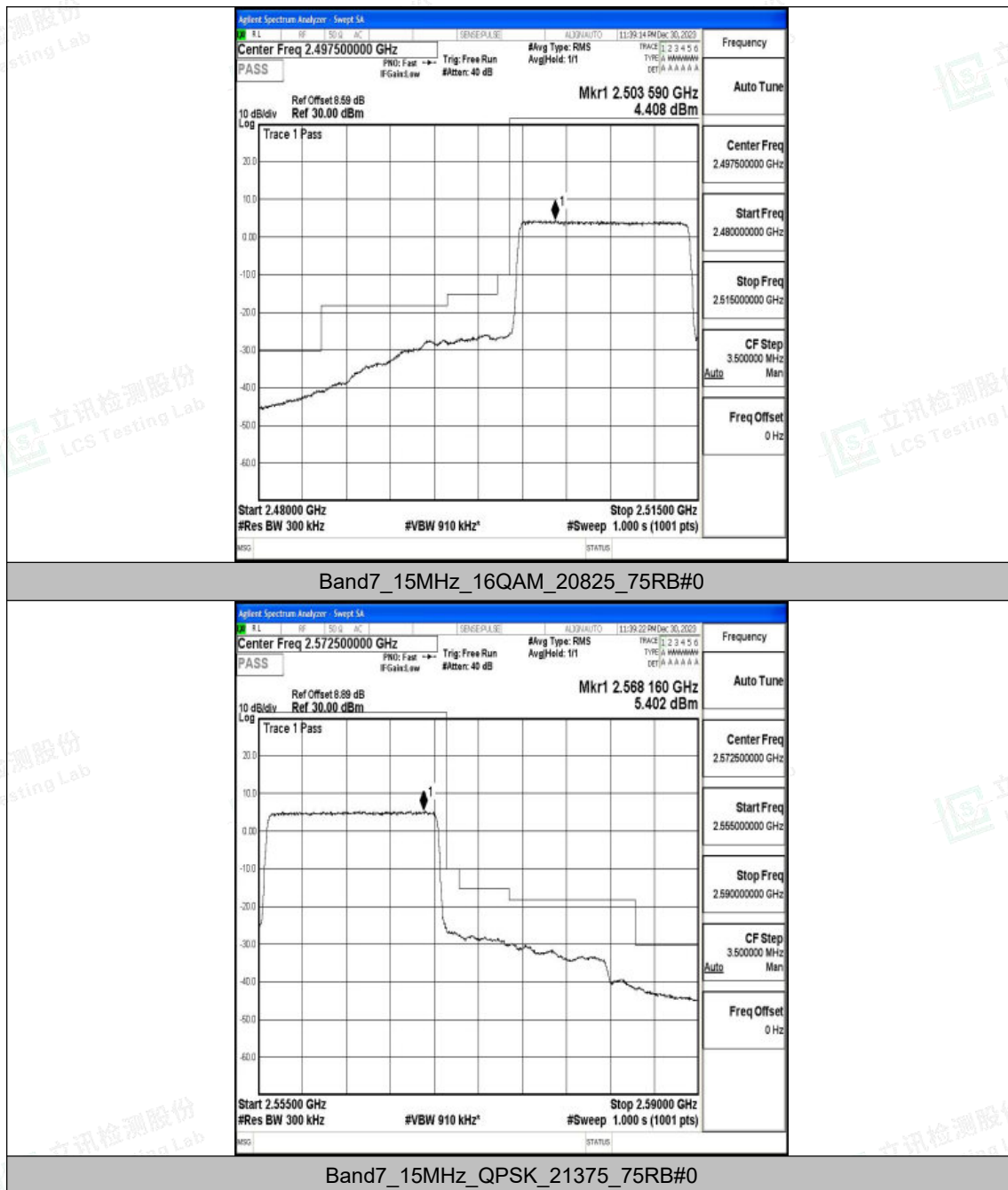


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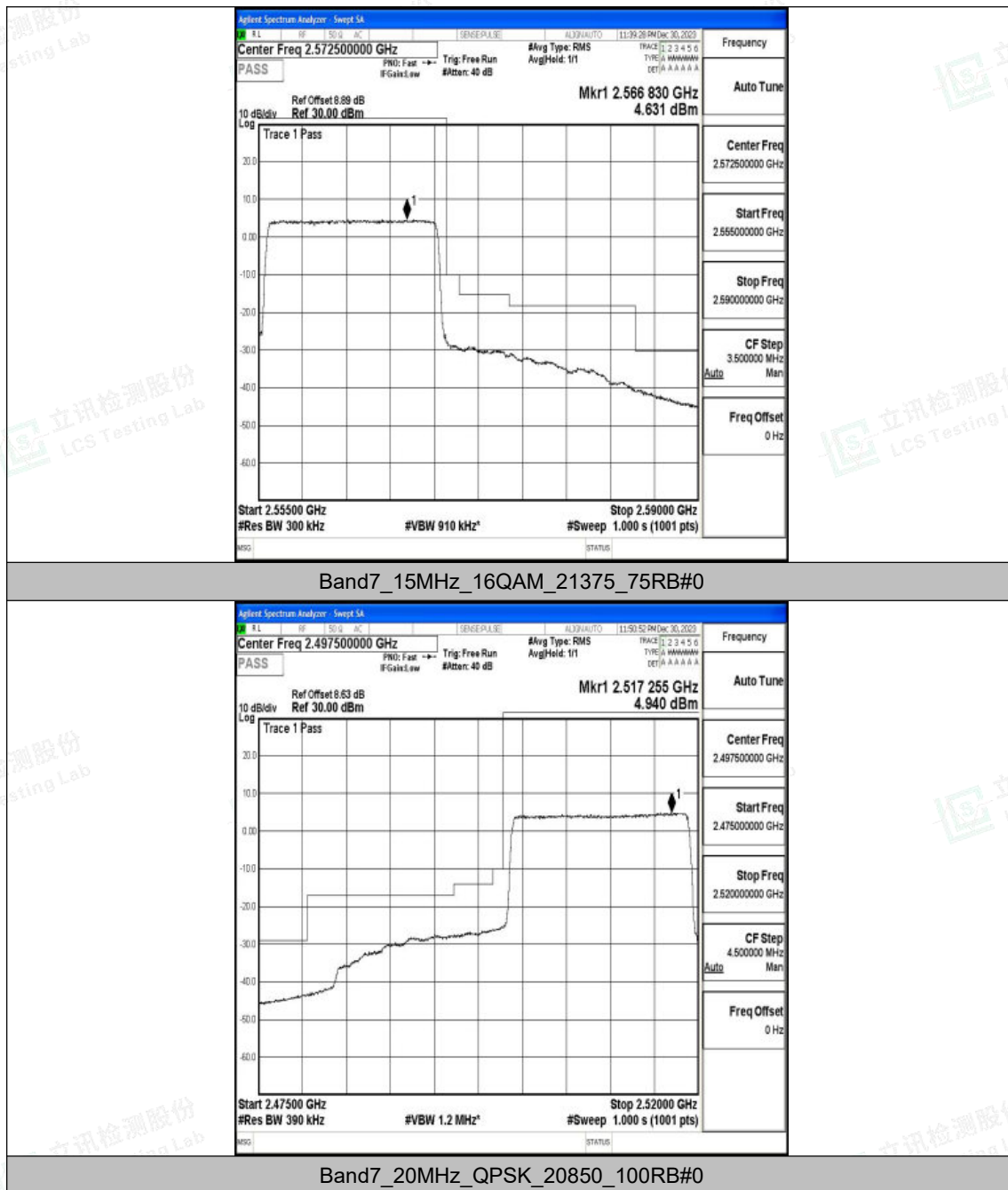


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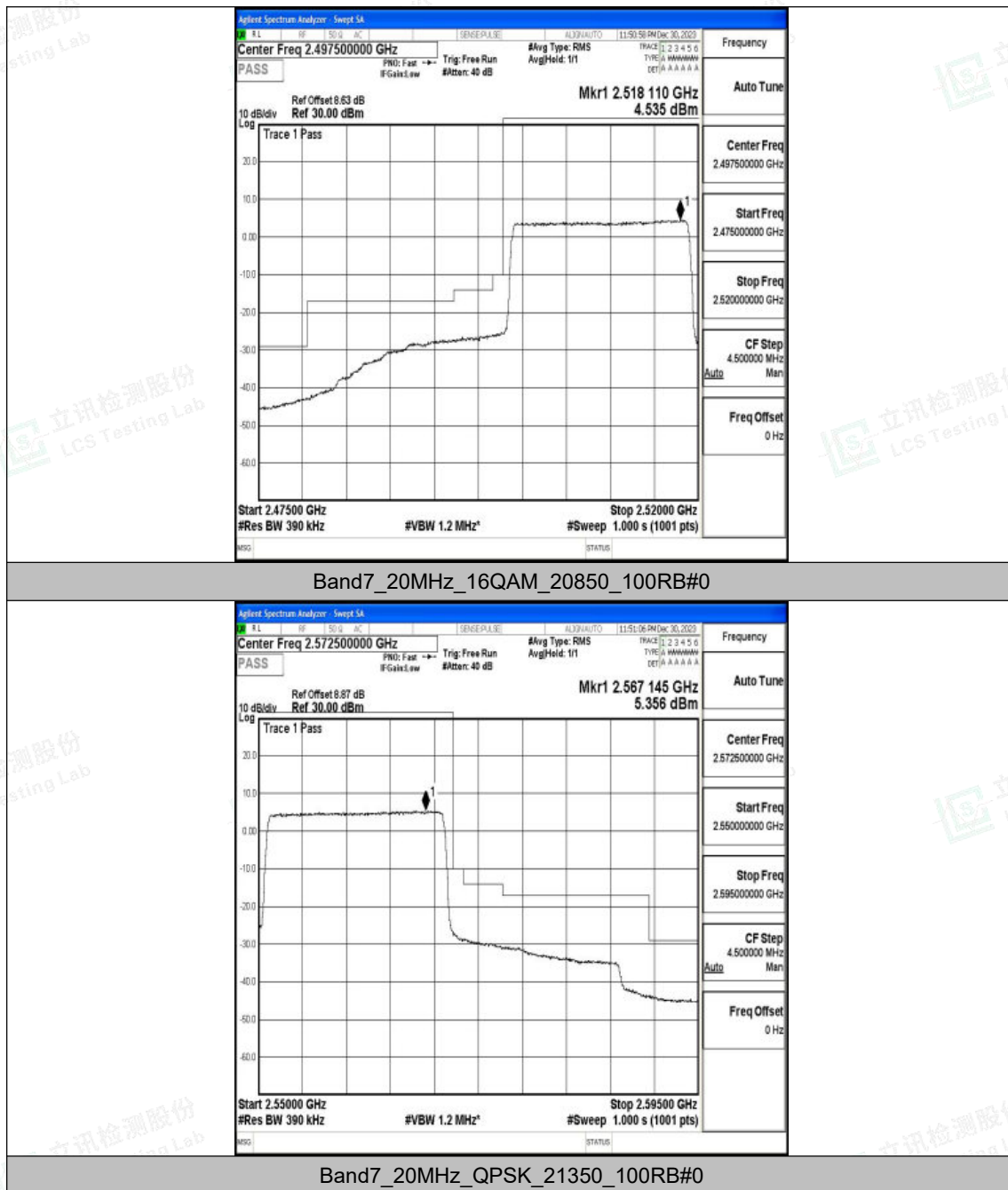


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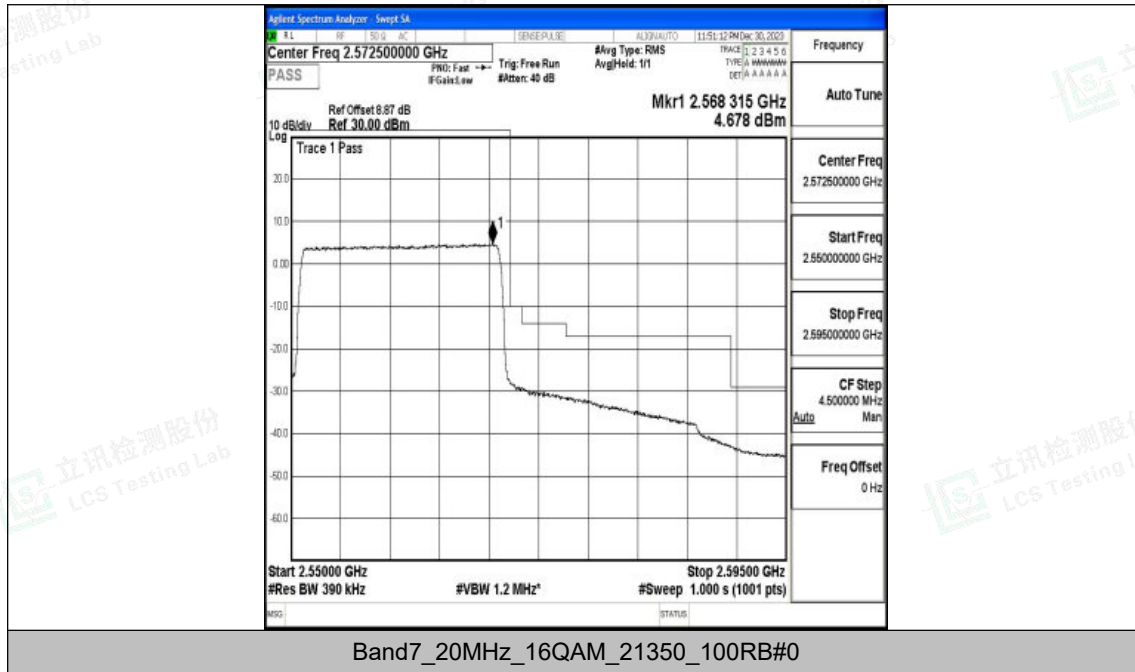


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J.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	0.009~0.15	-64.73	PASS
Band7	5MHz	QPSK	20775	1RB#0	0.15~30	-62.25	PASS
Band7	5MHz	QPSK	20775	1RB#0	30~1000	-61.98	PASS
Band7	5MHz	QPSK	20775	1RB#0	1000~20000	-33.18	PASS
Band7	5MHz	QPSK	20775	1RB#0	20000~27000	-35.44	PASS
Band7	5MHz	16QAM	20775	1RB#0	0.009~0.15	-66.98	PASS
Band7	5MHz	16QAM	20775	1RB#0	0.15~30	-60.46	PASS
Band7	5MHz	16QAM	20775	1RB#0	30~1000	-61.90	PASS
Band7	5MHz	16QAM	20775	1RB#0	1000~20000	-32.04	PASS
Band7	5MHz	16QAM	20775	1RB#0	20000~27000	-35.25	PASS
Band7	5MHz	QPSK	21100	1RB#0	0.009~0.15	-67.51	PASS
Band7	5MHz	QPSK	21100	1RB#0	0.15~30	-61.76	PASS
Band7	5MHz	QPSK	21100	1RB#0	30~1000	-62.07	PASS
Band7	5MHz	QPSK	21100	1RB#0	1000~20000	-33.25	PASS
Band7	5MHz	QPSK	21100	1RB#0	20000~27000	-35.12	PASS
Band7	5MHz	16QAM	21100	1RB#0	0.009~0.15	-69.25	PASS
Band7	5MHz	16QAM	21100	1RB#0	0.15~30	-60.62	PASS
Band7	5MHz	16QAM	21100	1RB#0	30~1000	-62.36	PASS
Band7	5MHz	16QAM	21100	1RB#0	1000~20000	-33.02	PASS
Band7	5MHz	16QAM	21100	1RB#0	20000~27000	-34.71	PASS
Band7	5MHz	QPSK	21425	1RB#0	0.009~0.15	-67.96	PASS
Band7	5MHz	QPSK	21425	1RB#0	0.15~30	-60.85	PASS
Band7	5MHz	QPSK	21425	1RB#0	30~1000	-62.31	PASS
Band7	5MHz	QPSK	21425	1RB#0	1000~20000	-33.15	PASS
Band7	5MHz	QPSK	21425	1RB#0	20000~27000	-35.20	PASS
Band7	5MHz	16QAM	21425	1RB#0	0.009~0.15	-68.02	PASS
Band7	5MHz	16QAM	21425	1RB#0	0.15~30	-60.62	PASS
Band7	5MHz	16QAM	21425	1RB#0	30~1000	-61.92	PASS
Band7	5MHz	16QAM	21425	1RB#0	1000~20000	-33.13	PASS
Band7	5MHz	16QAM	21425	1RB#0	20000~27000	-35.32	PASS
Band7	10MHz	QPSK	20800	1RB#0	0.009~0.15	-67.52	PASS
Band7	10MHz	QPSK	20800	1RB#0	0.15~30	-61.34	PASS
Band7	10MHz	QPSK	20800	1RB#0	30~1000	-62.12	PASS
Band7	10MHz	QPSK	20800	1RB#0	1000~20000	-33.34	PASS
Band7	10MHz	QPSK	20800	1RB#0	20000~27000	-35.26	PASS



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Band7	10MHz	16QAM	20800	1RB#0	0.009~0.15	-66.97	PASS
Band7	10MHz	16QAM	20800	1RB#0	0.15~30	-64.84	PASS
Band7	10MHz	16QAM	20800	1RB#0	30~1000	-62.27	PASS
Band7	10MHz	16QAM	20800	1RB#0	1000~20000	-33.05	PASS
Band7	10MHz	16QAM	20800	1RB#0	20000~27000	-35.44	PASS
Band7	10MHz	QPSK	21100	1RB#0	0.009~0.15	-66.46	PASS
Band7	10MHz	QPSK	21100	1RB#0	0.15~30	-62.01	PASS
Band7	10MHz	QPSK	21100	1RB#0	30~1000	-62.24	PASS
Band7	10MHz	QPSK	21100	1RB#0	1000~20000	-32.96	PASS
Band7	10MHz	QPSK	21100	1RB#0	20000~27000	-34.88	PASS
Band7	10MHz	16QAM	21100	1RB#0	0.009~0.15	-64.78	PASS
Band7	10MHz	16QAM	21100	1RB#0	0.15~30	-64.73	PASS
Band7	10MHz	16QAM	21100	1RB#0	30~1000	-61.86	PASS
Band7	10MHz	16QAM	21100	1RB#0	1000~20000	-32.92	PASS
Band7	10MHz	16QAM	21100	1RB#0	20000~27000	-35.27	PASS
Band7	10MHz	QPSK	21400	1RB#0	0.009~0.15	-64.92	PASS
Band7	10MHz	QPSK	21400	1RB#0	0.15~30	-63.72	PASS
Band7	10MHz	QPSK	21400	1RB#0	30~1000	-62.12	PASS
Band7	10MHz	QPSK	21400	1RB#0	1000~20000	-32.92	PASS
Band7	10MHz	QPSK	21400	1RB#0	20000~27000	-35.35	PASS
Band7	10MHz	16QAM	21400	1RB#0	0.009~0.15	-67.78	PASS
Band7	10MHz	16QAM	21400	1RB#0	0.15~30	-60.80	PASS
Band7	10MHz	16QAM	21400	1RB#0	30~1000	-61.85	PASS
Band7	10MHz	16QAM	21400	1RB#0	1000~20000	-33.23	PASS
Band7	10MHz	16QAM	21400	1RB#0	20000~27000	-35.32	PASS
Band7	15MHz	QPSK	20825	1RB#0	0.009~0.15	-69.71	PASS
Band7	15MHz	QPSK	20825	1RB#0	0.15~30	-64.26	PASS
Band7	15MHz	QPSK	20825	1RB#0	30~1000	-61.57	PASS
Band7	15MHz	QPSK	20825	1RB#0	1000~20000	-32.61	PASS
Band7	15MHz	QPSK	20825	1RB#0	20000~27000	-35.36	PASS
Band7	15MHz	16QAM	20825	1RB#0	0.009~0.15	-64.16	PASS
Band7	15MHz	16QAM	20825	1RB#0	0.15~30	-61.65	PASS
Band7	15MHz	16QAM	20825	1RB#0	30~1000	-62.44	PASS
Band7	15MHz	16QAM	20825	1RB#0	1000~20000	-32.87	PASS
Band7	15MHz	16QAM	20825	1RB#0	20000~27000	-34.95	PASS
Band7	15MHz	QPSK	21100	1RB#0	0.009~0.15	-70.36	PASS
Band7	15MHz	QPSK	21100	1RB#0	0.15~30	-61.88	PASS
Band7	15MHz	QPSK	21100	1RB#0	30~1000	-62.24	PASS
Band7	15MHz	QPSK	21100	1RB#0	1000~20000	-33.11	PASS
Band7	15MHz	QPSK	21100	1RB#0	20000~27000	-35.01	PASS



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Band7	15MHz	16QAM	21100	1RB#0	0.009~0.15	-67.34	PASS
Band7	15MHz	16QAM	21100	1RB#0	0.15~30	-61.28	PASS
Band7	15MHz	16QAM	21100	1RB#0	30~1000	-62.24	PASS
Band7	15MHz	16QAM	21100	1RB#0	1000~20000	-33.40	PASS
Band7	15MHz	16QAM	21100	1RB#0	20000~27000	-35.31	PASS
Band7	15MHz	QPSK	21375	1RB#0	0.009~0.15	-67.64	PASS
Band7	15MHz	QPSK	21375	1RB#0	0.15~30	-60.45	PASS
Band7	15MHz	QPSK	21375	1RB#0	30~1000	-61.83	PASS
Band7	15MHz	QPSK	21375	1RB#0	1000~20000	-33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	20000~27000	-35.37	PASS
Band7	15MHz	16QAM	21375	1RB#0	0.009~0.15	-69.58	PASS
Band7	15MHz	16QAM	21375	1RB#0	0.15~30	-62.26	PASS
Band7	15MHz	16QAM	21375	1RB#0	30~1000	-62.32	PASS
Band7	15MHz	16QAM	21375	1RB#0	1000~20000	-33.27	PASS
Band7	15MHz	16QAM	21375	1RB#0	20000~27000	-35.18	PASS
Band7	20MHz	QPSK	20850	1RB#0	0.009~0.15	-69.40	PASS
Band7	20MHz	QPSK	20850	1RB#0	0.15~30	-62.77	PASS
Band7	20MHz	QPSK	20850	1RB#0	30~1000	-61.97	PASS
Band7	20MHz	QPSK	20850	1RB#0	1000~20000	-33.39	PASS
Band7	20MHz	QPSK	20850	1RB#0	20000~27000	-35.33	PASS
Band7	20MHz	16QAM	20850	1RB#0	0.009~0.15	-70.38	PASS
Band7	20MHz	16QAM	20850	1RB#0	0.15~30	-62.61	PASS
Band7	20MHz	16QAM	20850	1RB#0	30~1000	-62.44	PASS
Band7	20MHz	16QAM	20850	1RB#0	1000~20000	-33.12	PASS
Band7	20MHz	16QAM	20850	1RB#0	20000~27000	-35.34	PASS
Band7	20MHz	QPSK	21100	1RB#0	0.009~0.15	-68.43	PASS
Band7	20MHz	QPSK	21100	1RB#0	0.15~30	-62.57	PASS
Band7	20MHz	QPSK	21100	1RB#0	30~1000	-62.17	PASS
Band7	20MHz	QPSK	21100	1RB#0	1000~20000	-33.13	PASS
Band7	20MHz	QPSK	21100	1RB#0	20000~27000	-34.64	PASS
Band7	20MHz	16QAM	21100	1RB#0	0.009~0.15	-66.37	PASS
Band7	20MHz	16QAM	21100	1RB#0	0.15~30	-63.33	PASS
Band7	20MHz	16QAM	21100	1RB#0	30~1000	-62.02	PASS
Band7	20MHz	16QAM	21100	1RB#0	1000~20000	-32.94	PASS
Band7	20MHz	16QAM	21100	1RB#0	20000~27000	-35.05	PASS
Band7	20MHz	QPSK	21350	1RB#0	0.009~0.15	-70.03	PASS
Band7	20MHz	QPSK	21350	1RB#0	0.15~30	-60.59	PASS
Band7	20MHz	QPSK	21350	1RB#0	30~1000	-62.17	PASS
Band7	20MHz	QPSK	21350	1RB#0	1000~20000	-33.16	PASS
Band7	20MHz	QPSK	21350	1RB#0	20000~27000	-35.12	PASS



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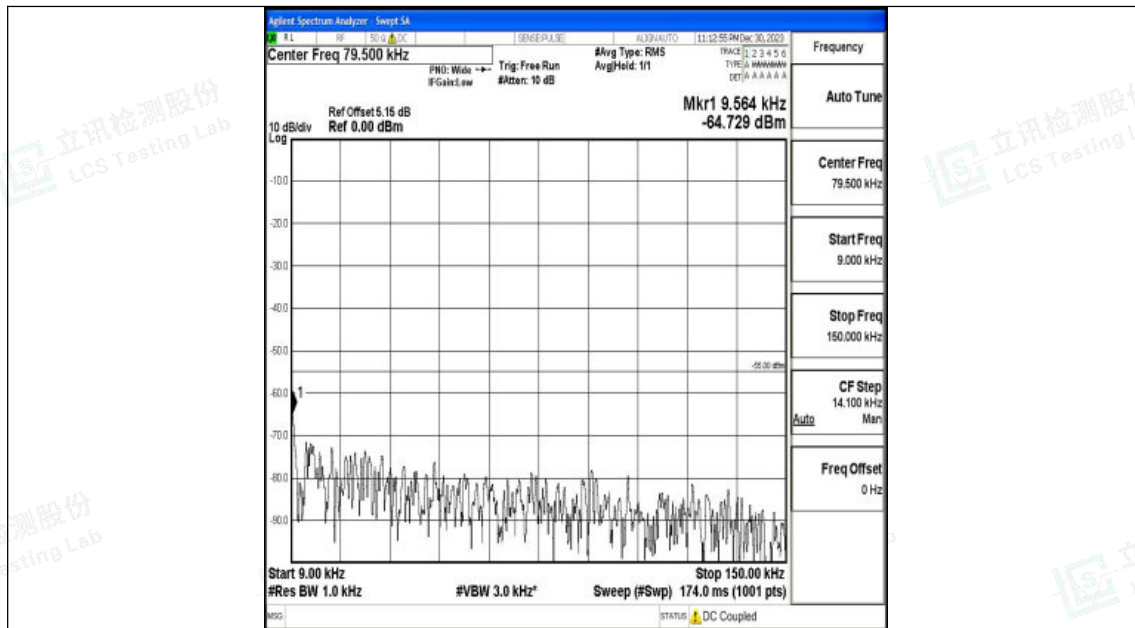
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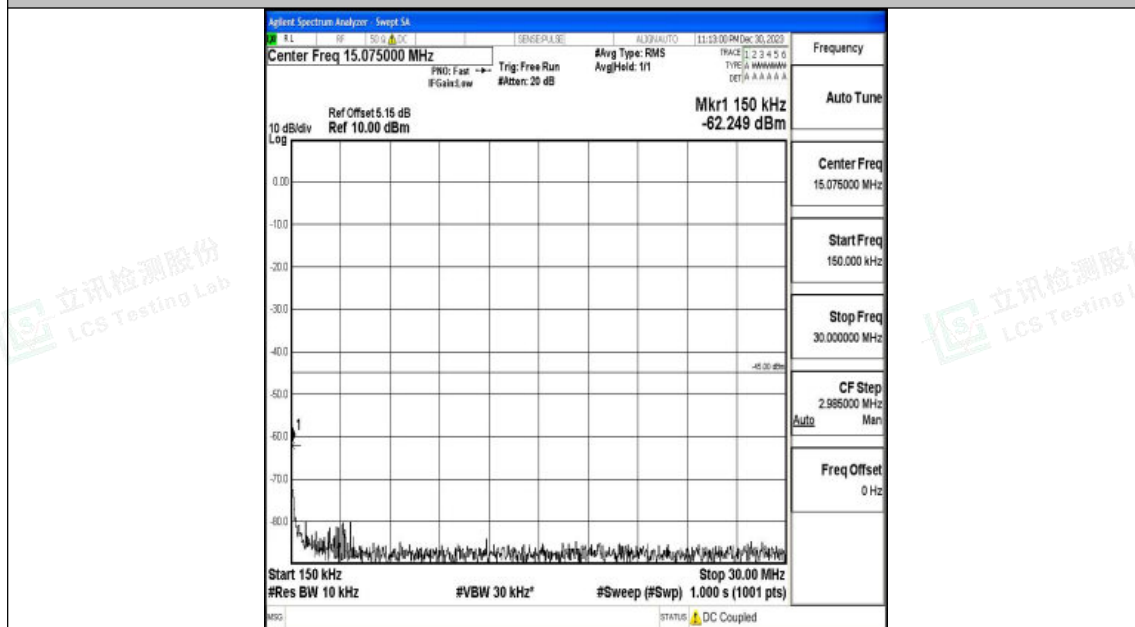


Band7	20MHz	16QAM	21350	1RB#0	0.009~0.15	-68.15	PASS
Band7	20MHz	16QAM	21350	1RB#0	0.15~30	-62.42	PASS
Band7	20MHz	16QAM	21350	1RB#0	30~1000	-62.35	PASS
Band7	20MHz	16QAM	21350	1RB#0	1000~20000	-33.20	PASS
Band7	20MHz	16QAM	21350	1RB#0	20000~27000	-35.30	PASS

Test Graphs



Band7_5MHz_QPSK_20775_1RB#0_0.009~0.15_0.009~0.15



Band7_5MHz_QPSK_20775_1RB#0_0.15~30_0.15~30

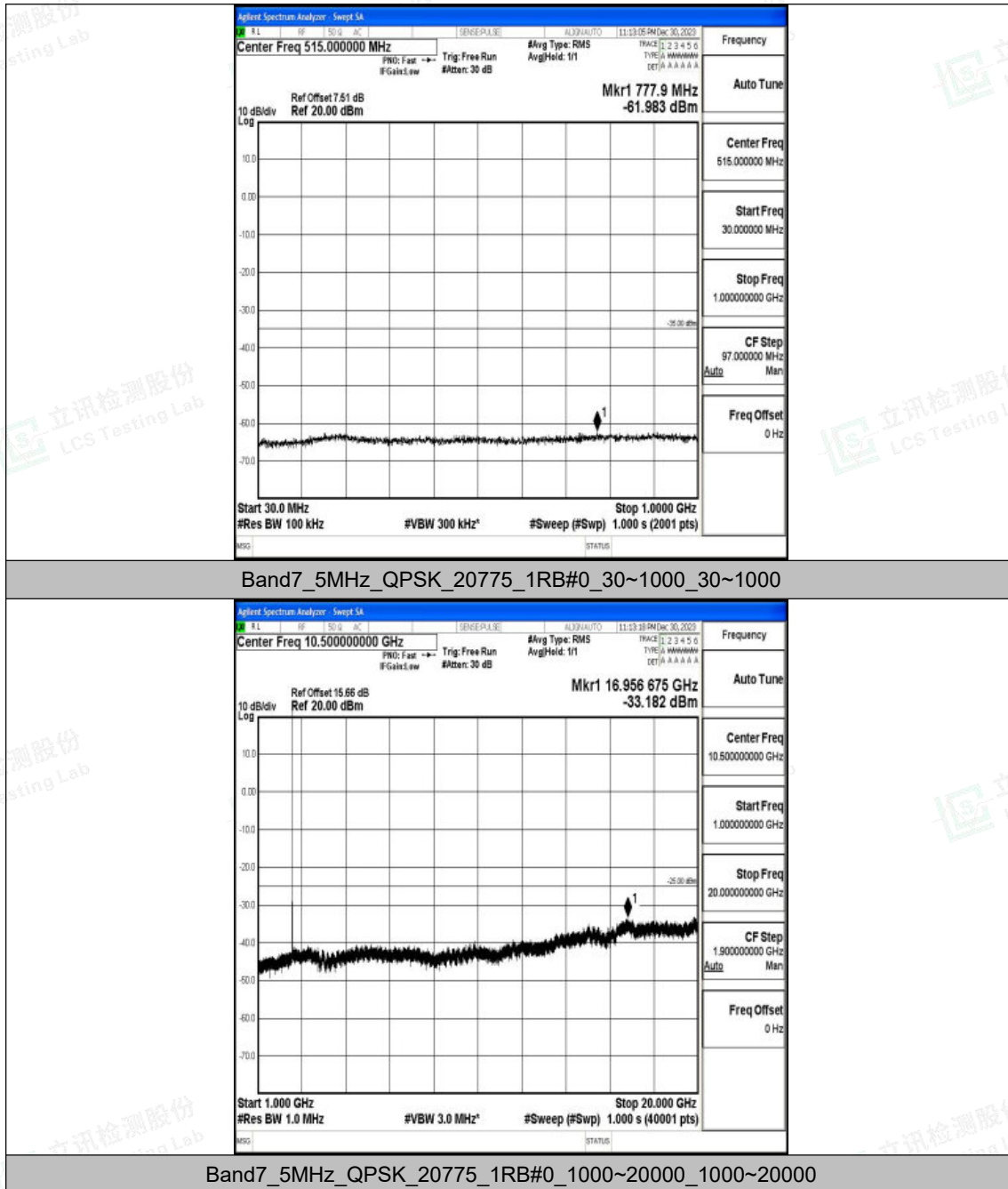


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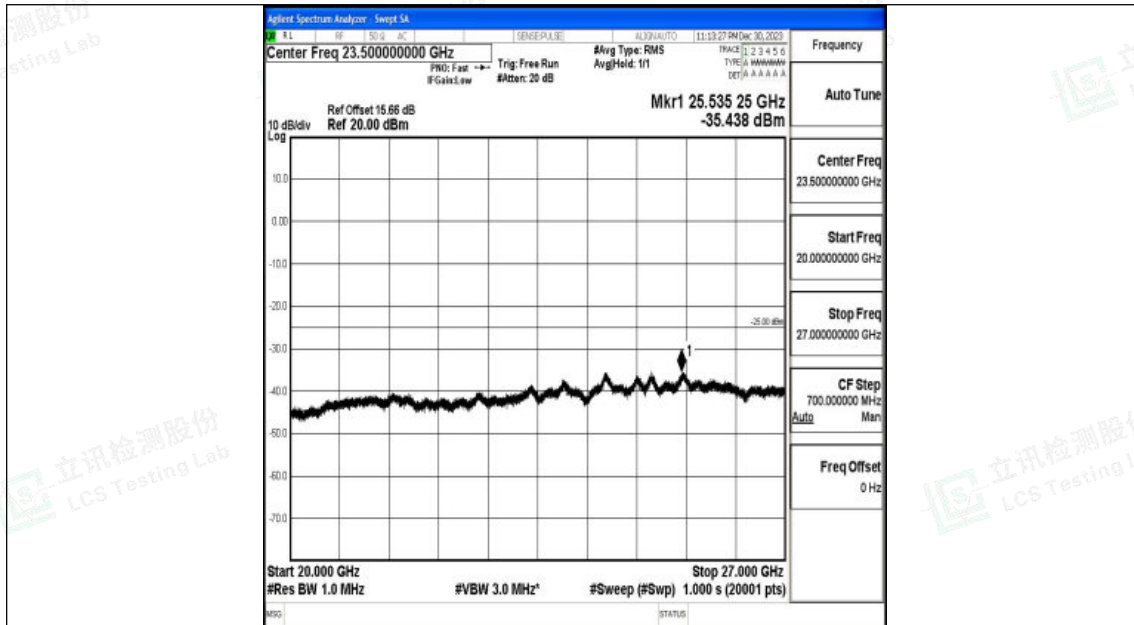


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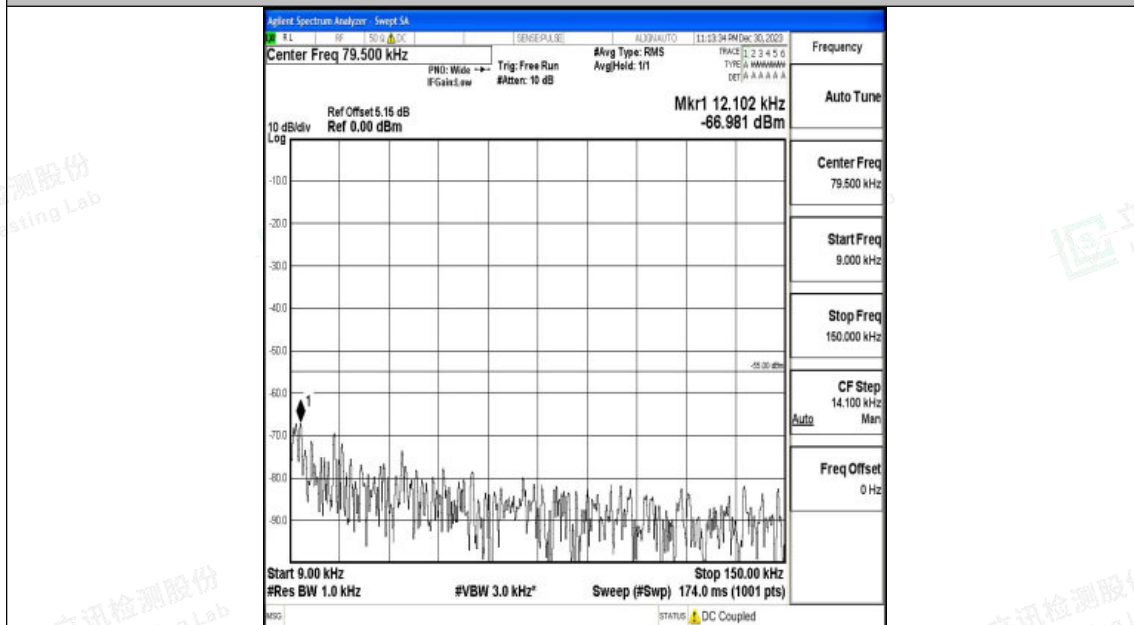
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Band7_5MHz_QPSK_20775_1RB#0_20000~27000_20000~27000



Band7_5MHz_16QAM_20775_1RB#0_0.009~0.15_0.009~0.15

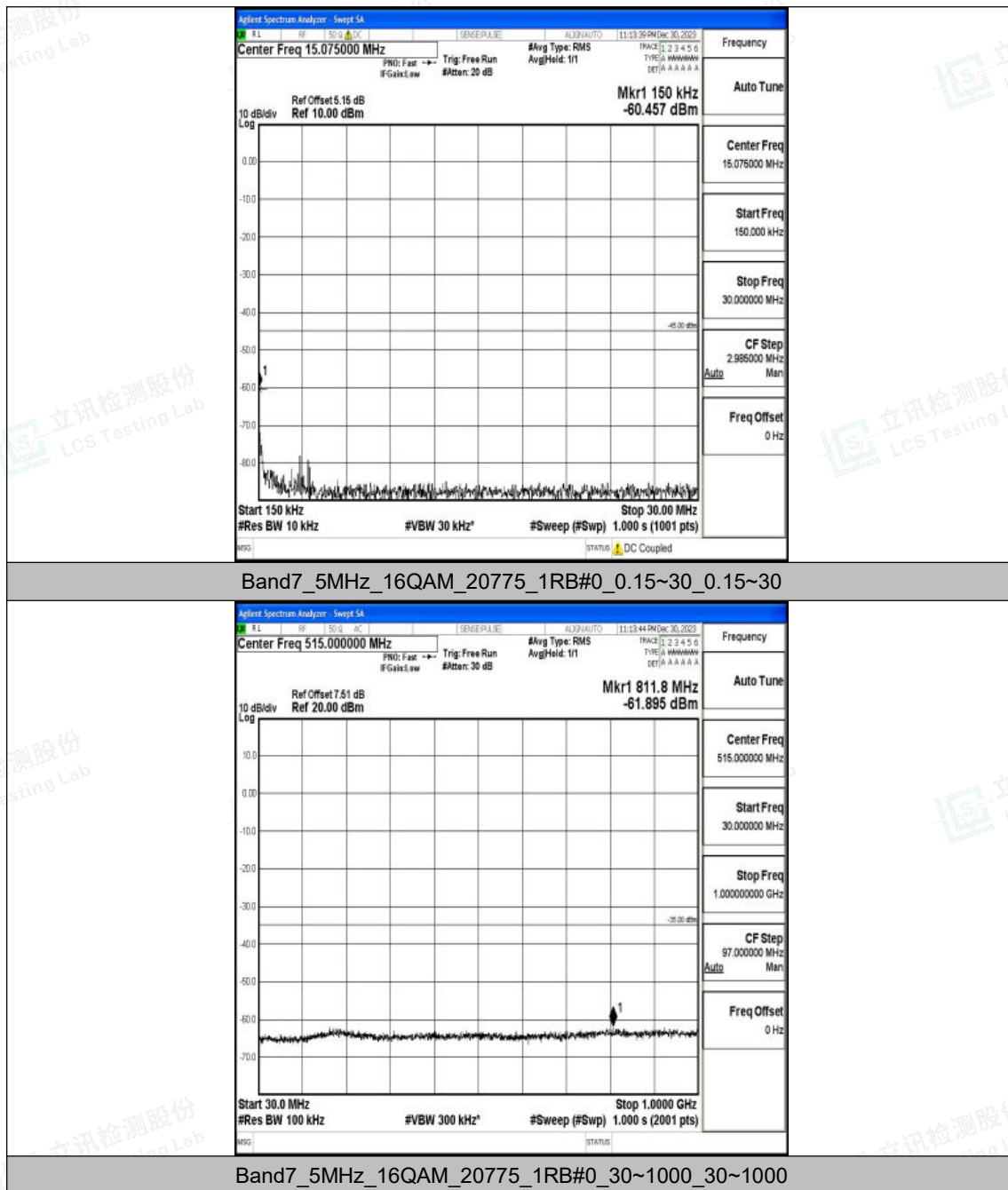


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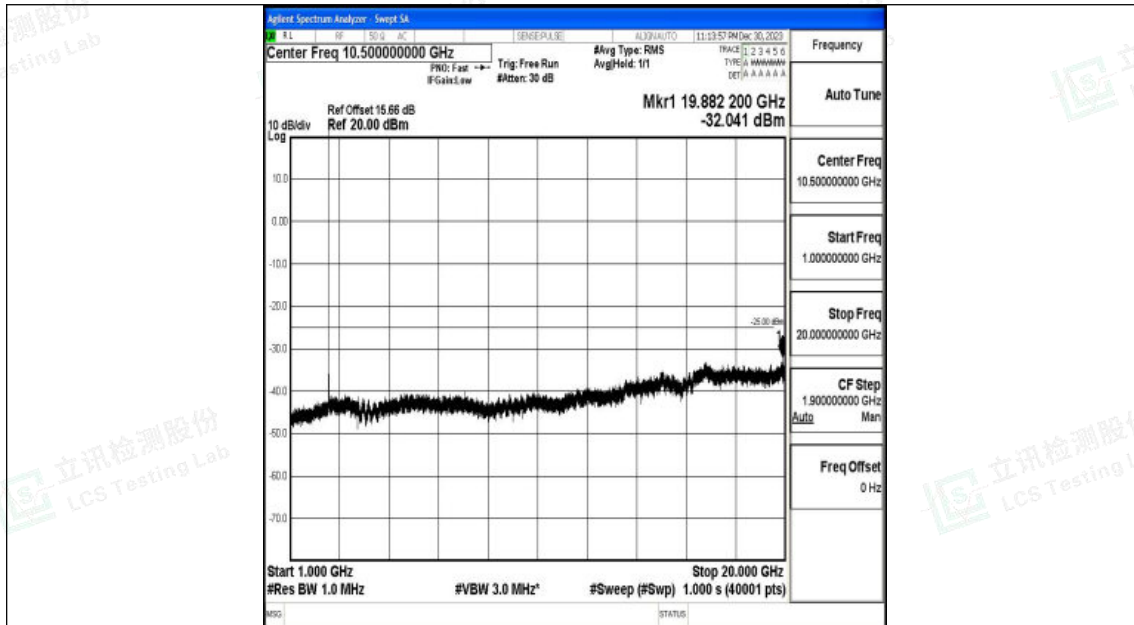


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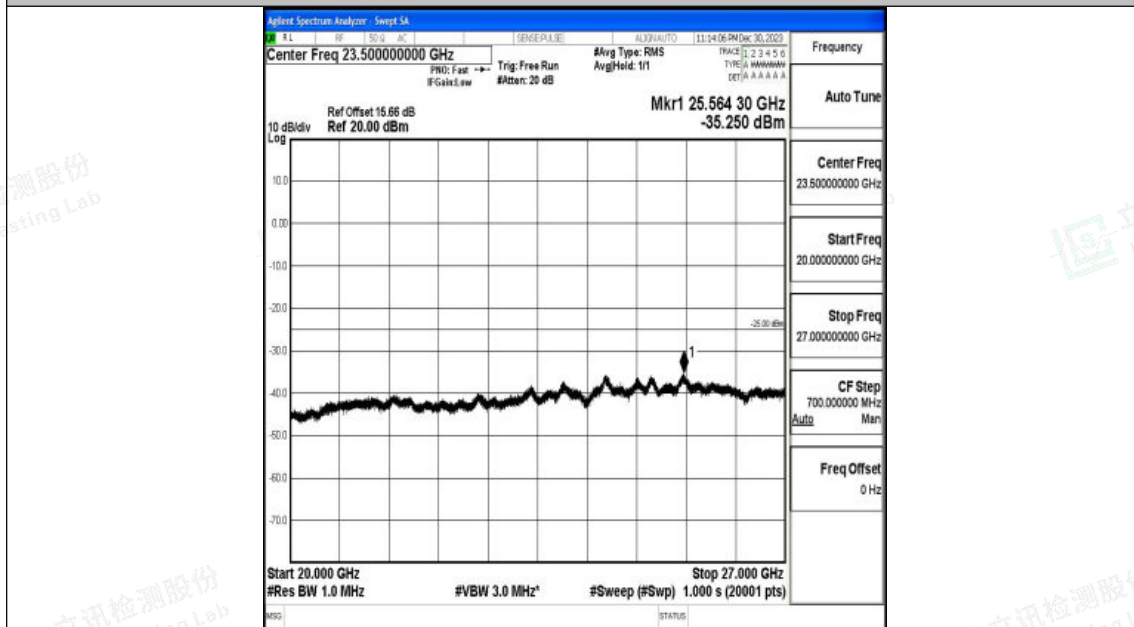
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Band7_5MHz_16QAM_20775_1RB#0_1000~20000_1000~20000



Band7_5MHz_16QAM_20775_1RB#0_20000~27000_20000~27000

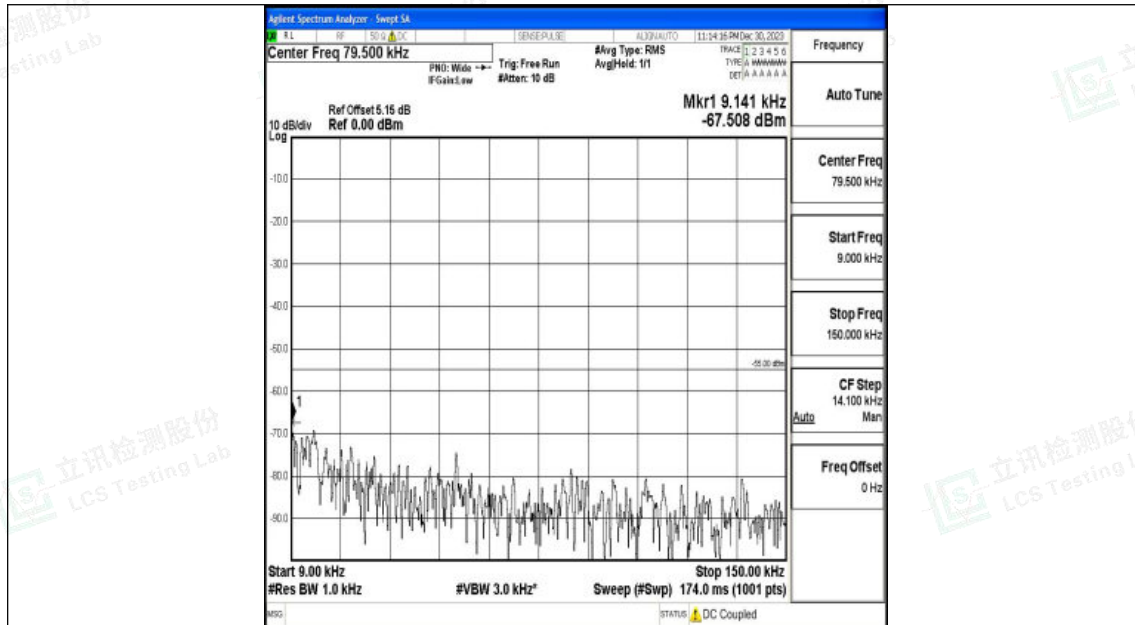


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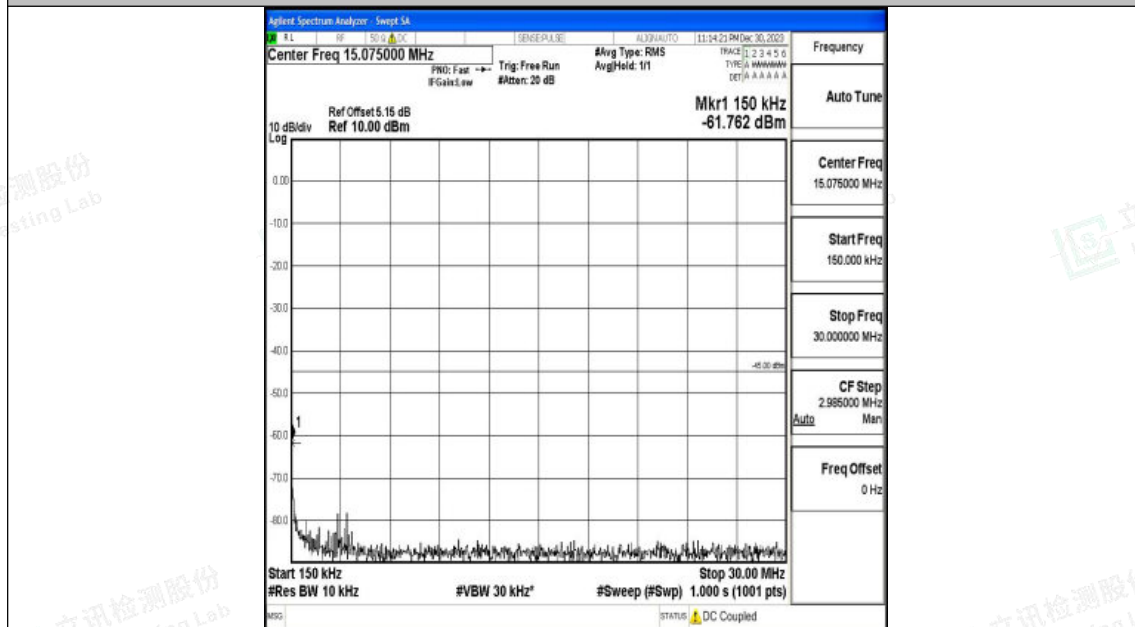
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Band7_5MHz_QPSK_21100_1RB#0_0.009~0.15_0.009~0.15



Band7_5MHz_QPSK_21100_1RB#0_0.15~30_0.15~30

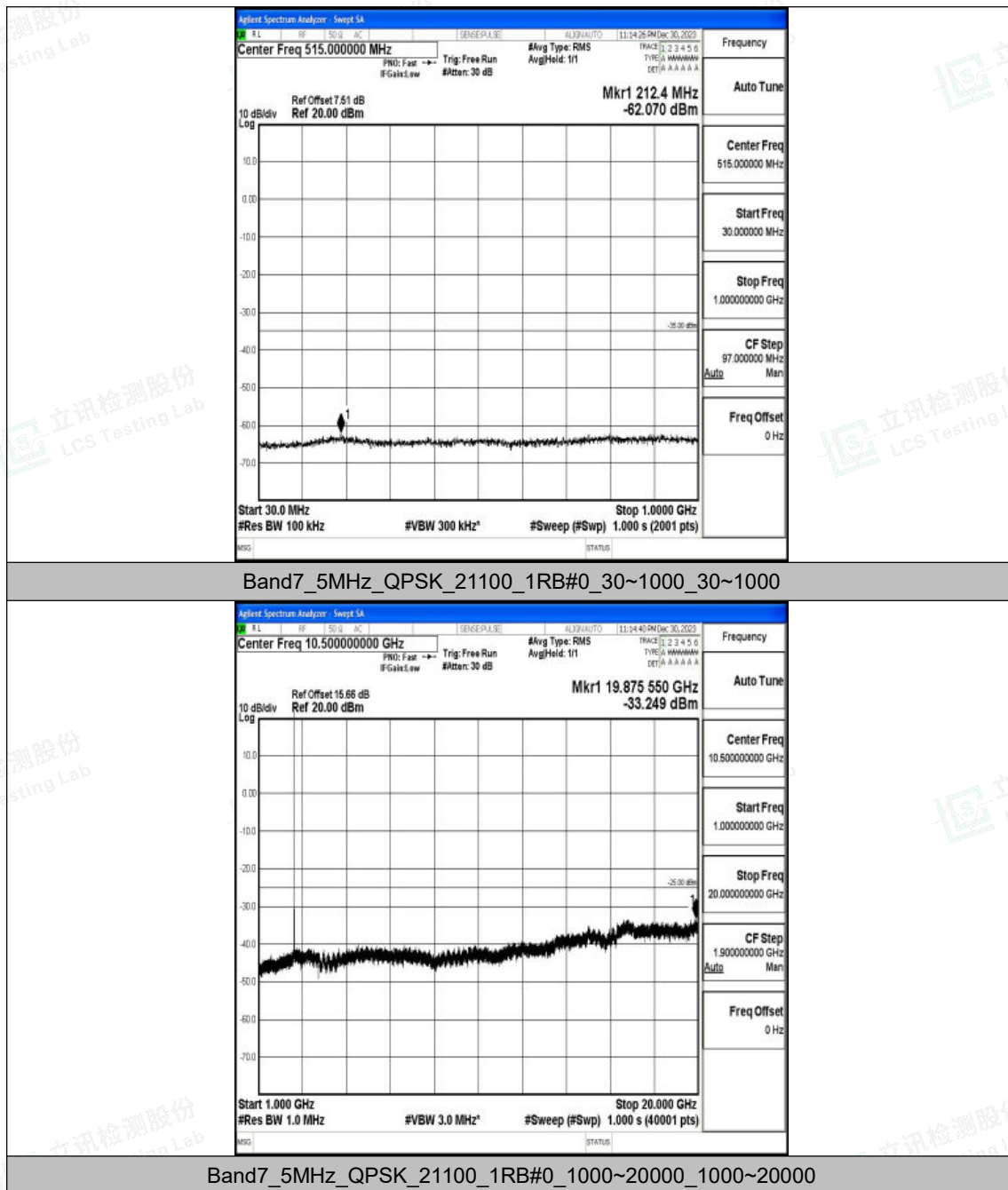


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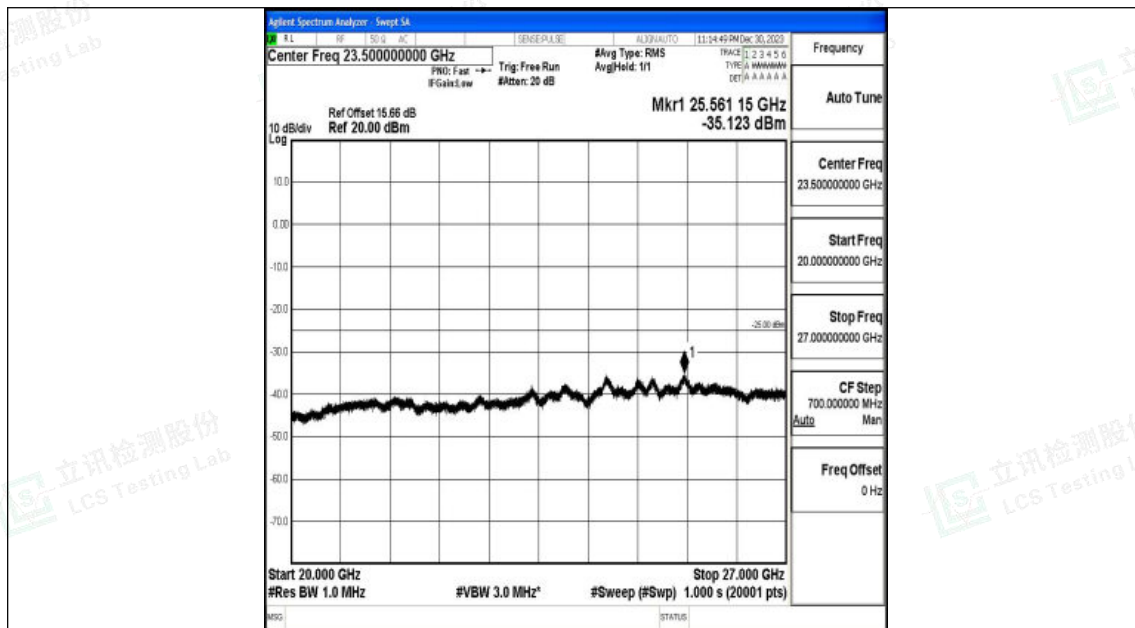


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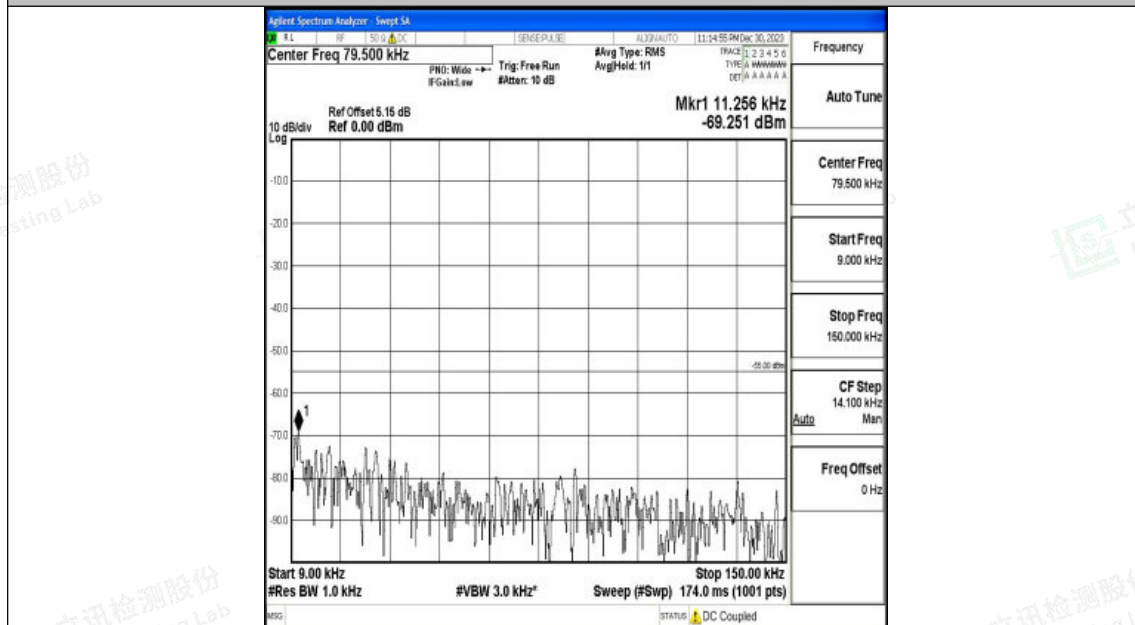
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Band7_5MHz_QPSK_21100_1RB#0_20000~27000_20000~27000



Band7_5MHz_16QAM_21100_1RB#0_0.009~0.15_0.009~0.15

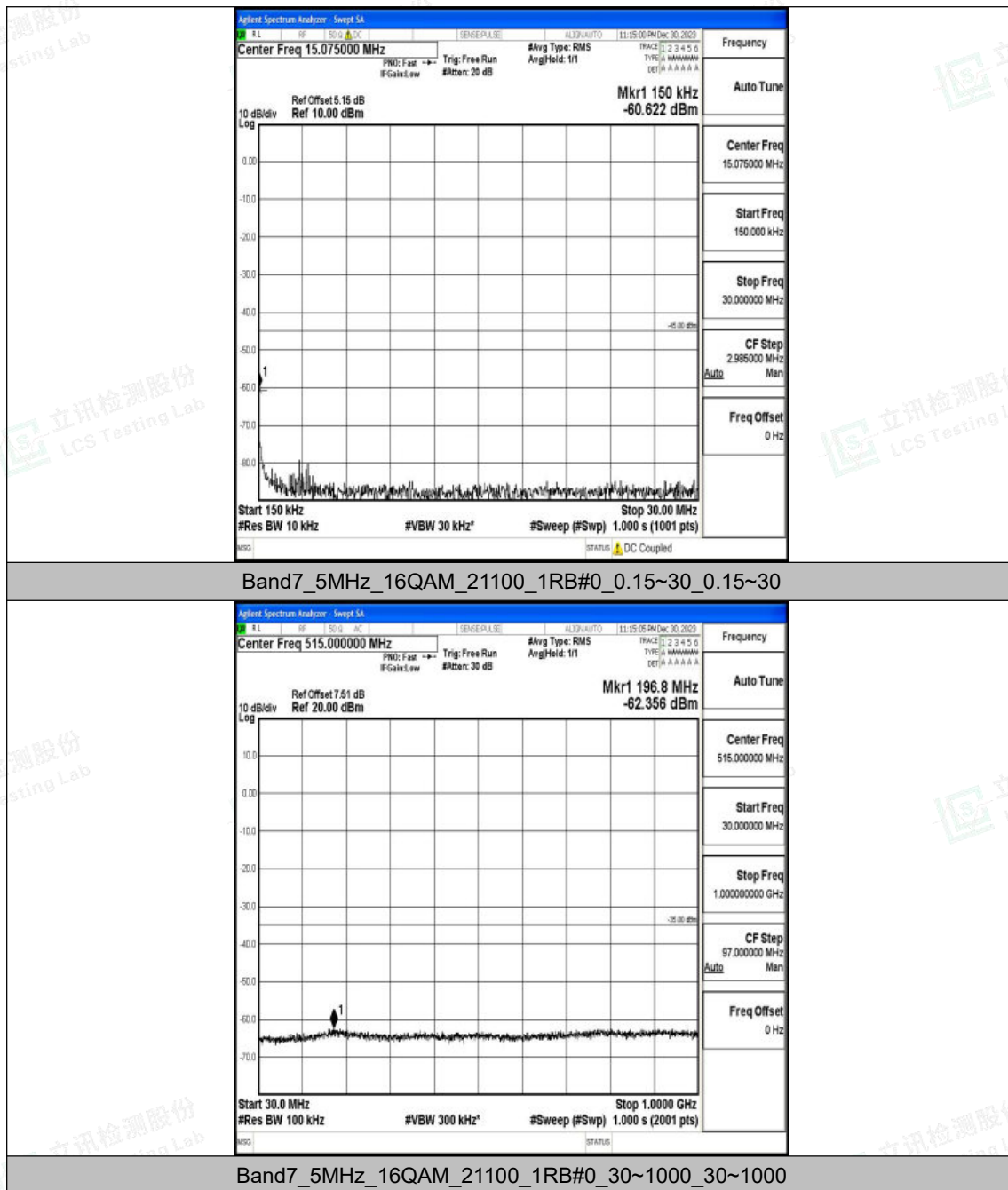


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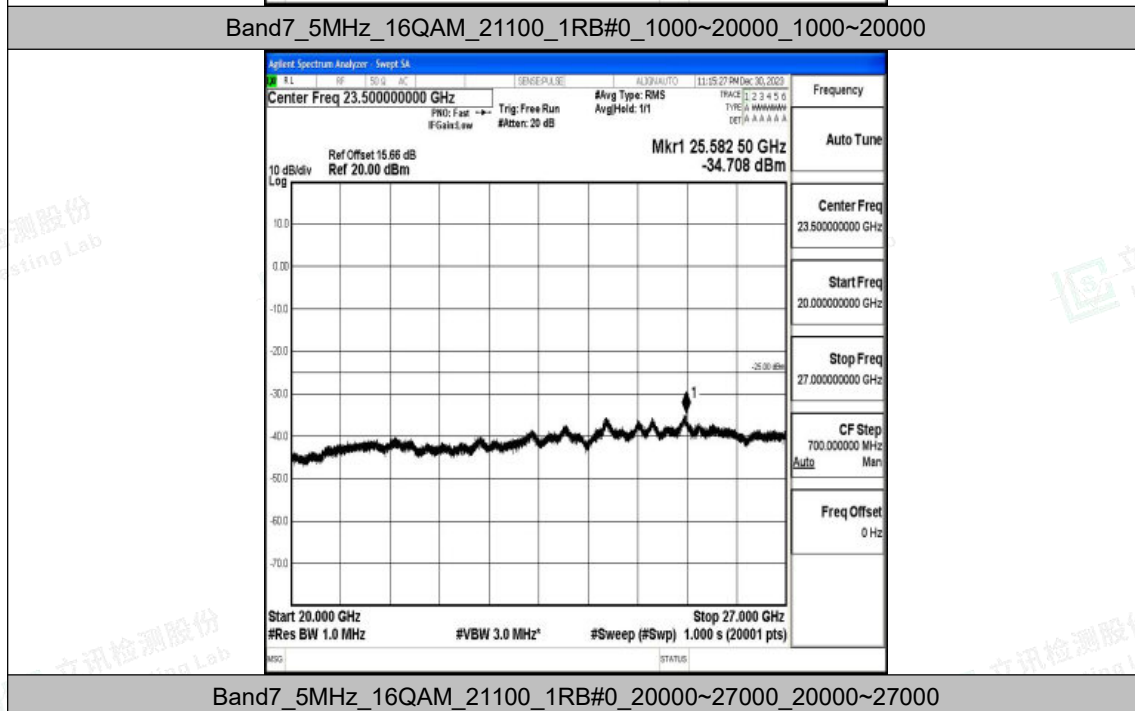
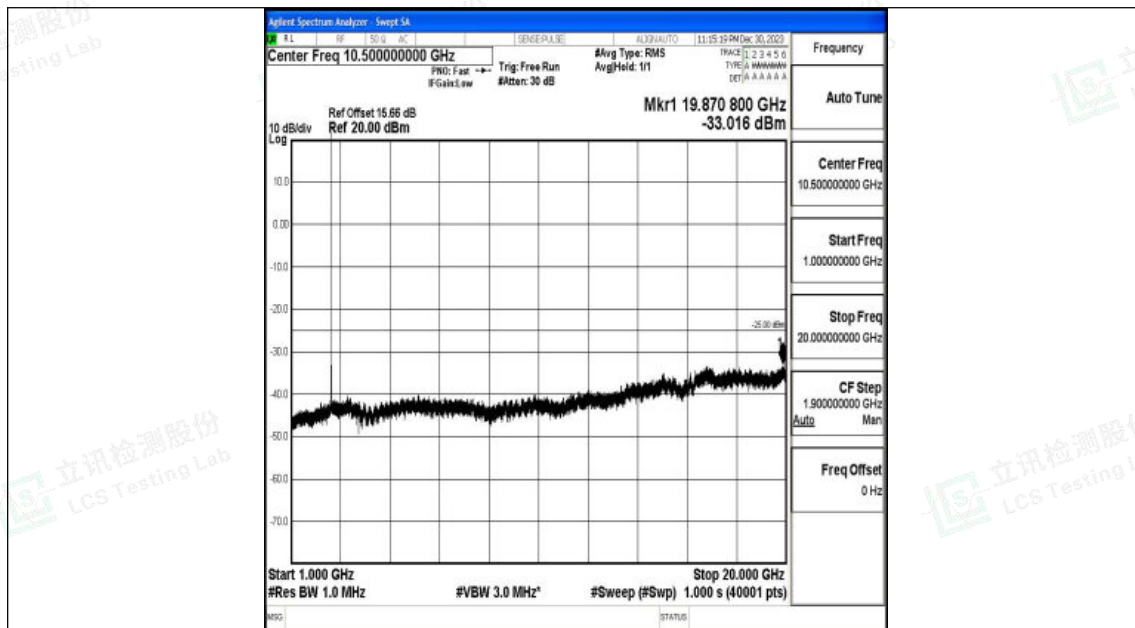


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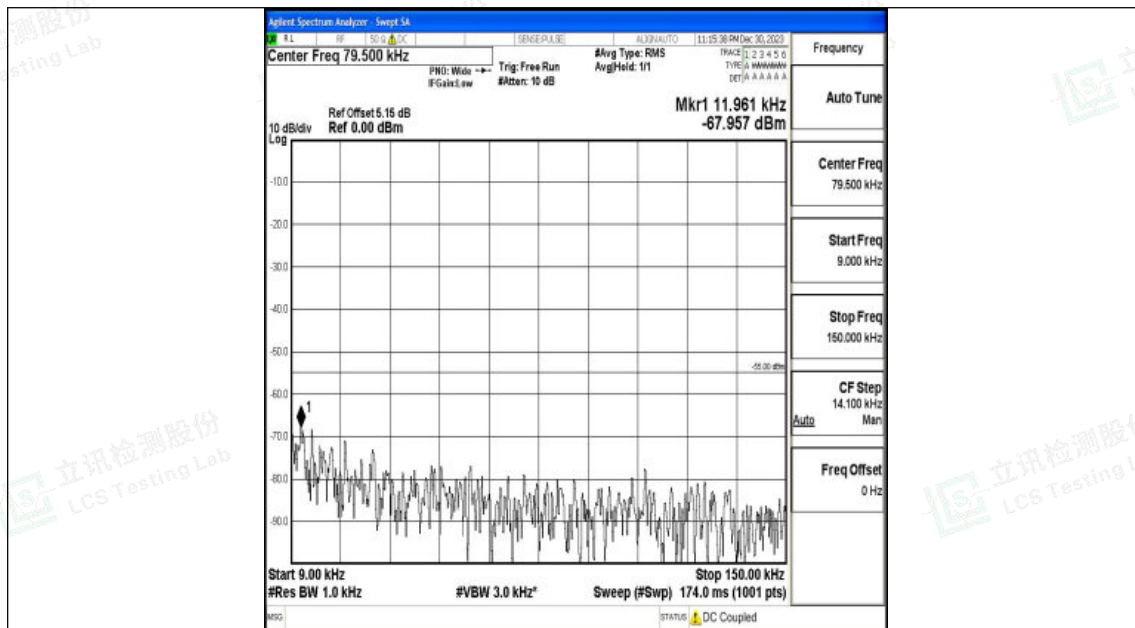


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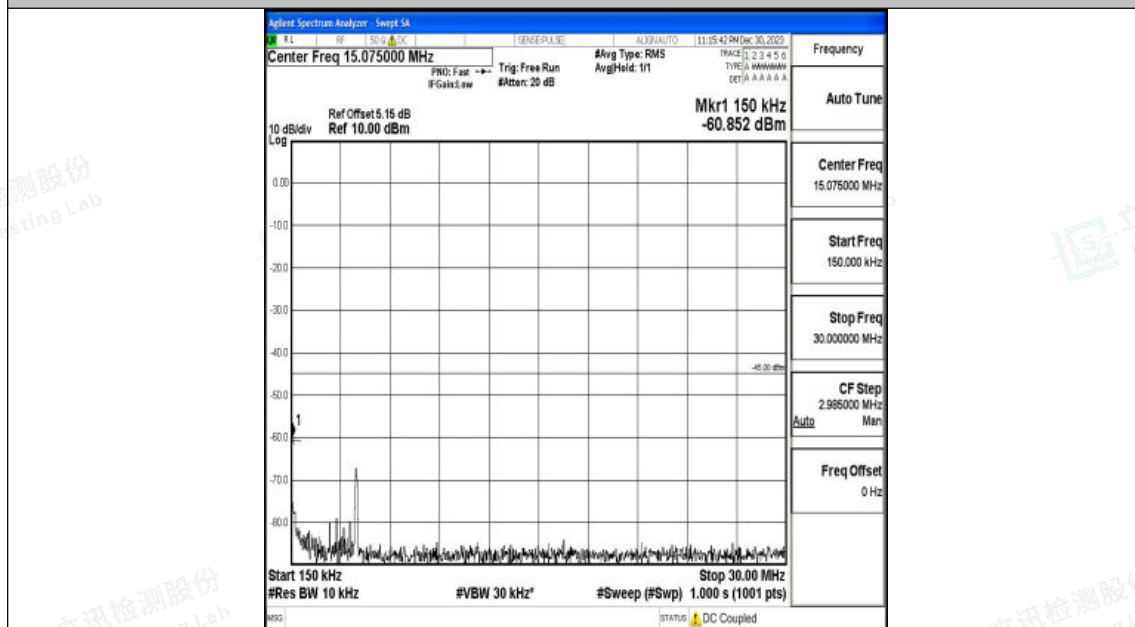
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Band7_5MHz_QPSK_21425_1RB#0_0.009~0.15_0.009~0.15



Band7_5MHz_QPSK_21425_1RB#0_0.15~30_0.15~30

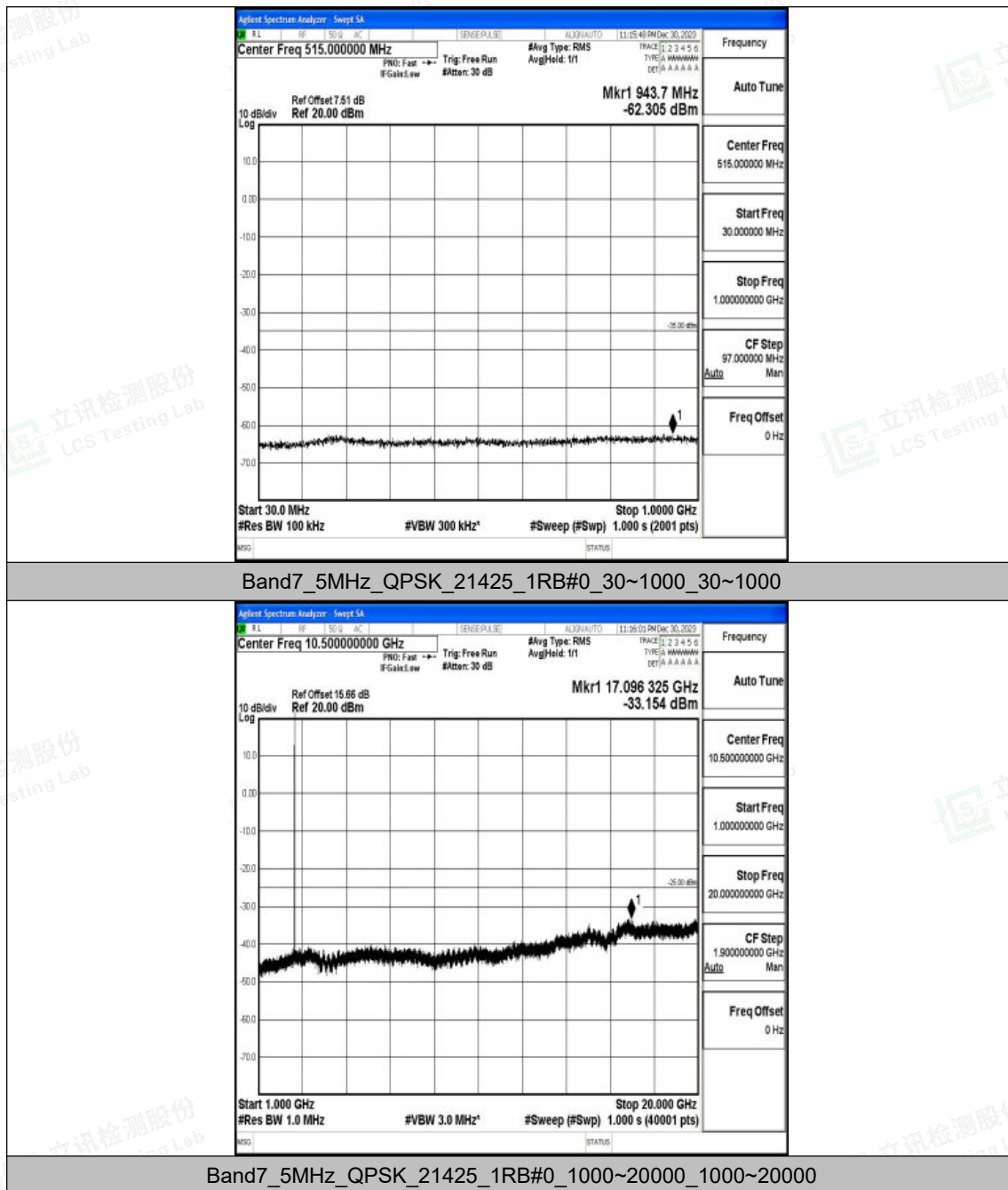


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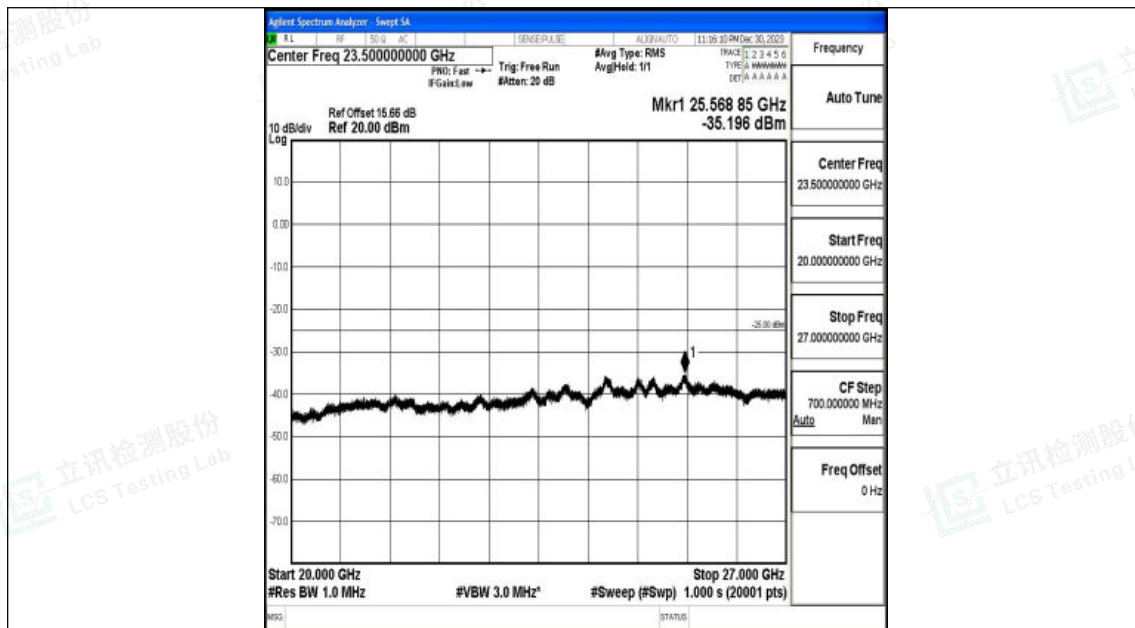


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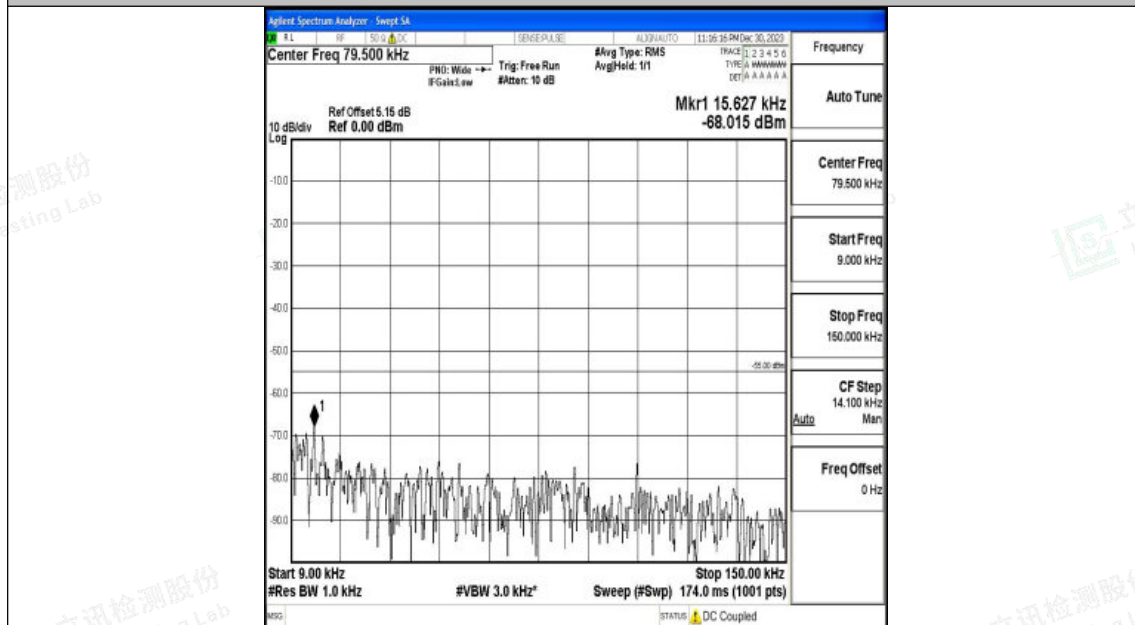
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Band7_5MHz_QPSK_21425_1RB#0_20000~27000_20000~27000



Band7_5MHz_16QAM_21425_1RB#0_0.009~0.15_0.009~0.15

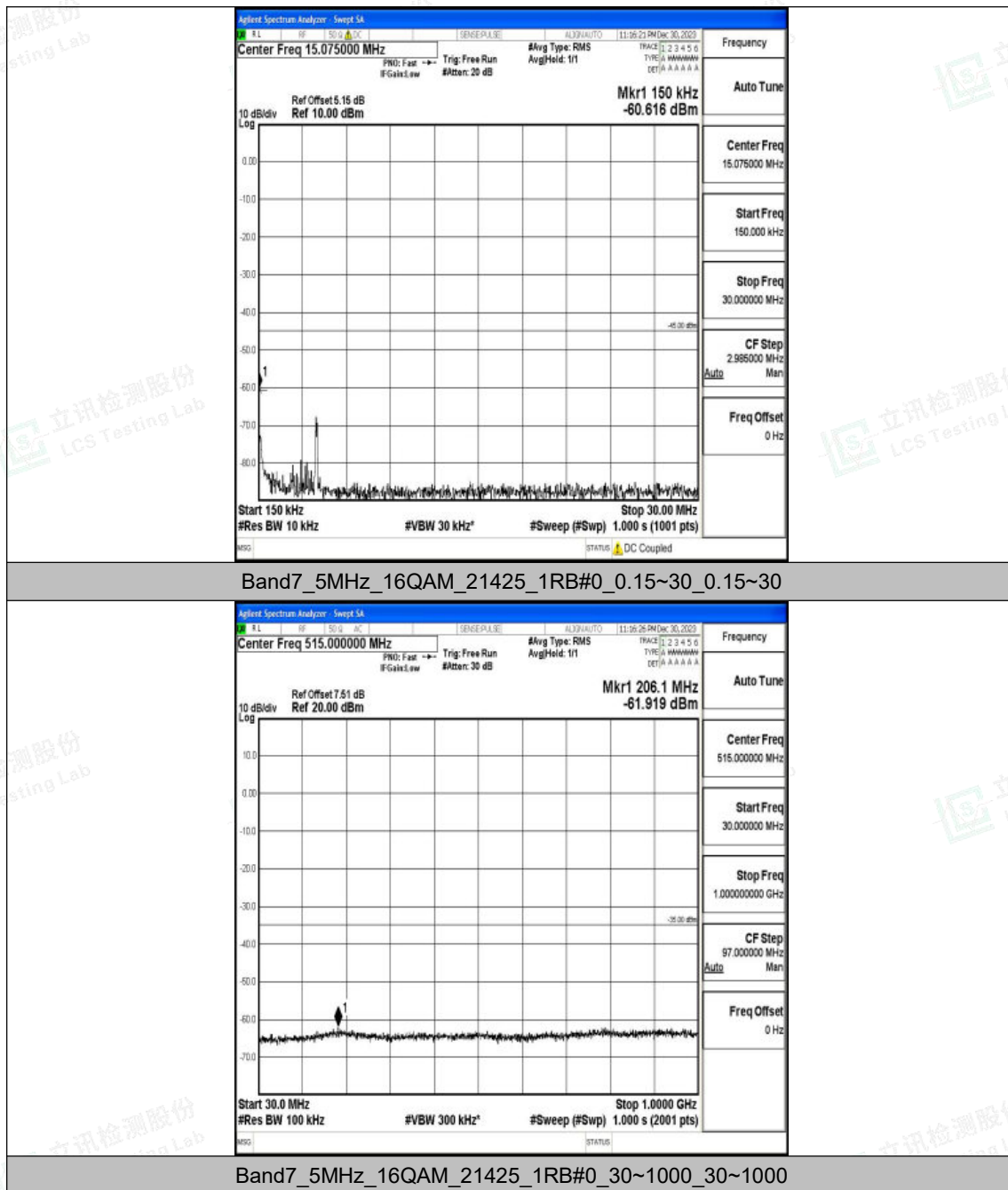


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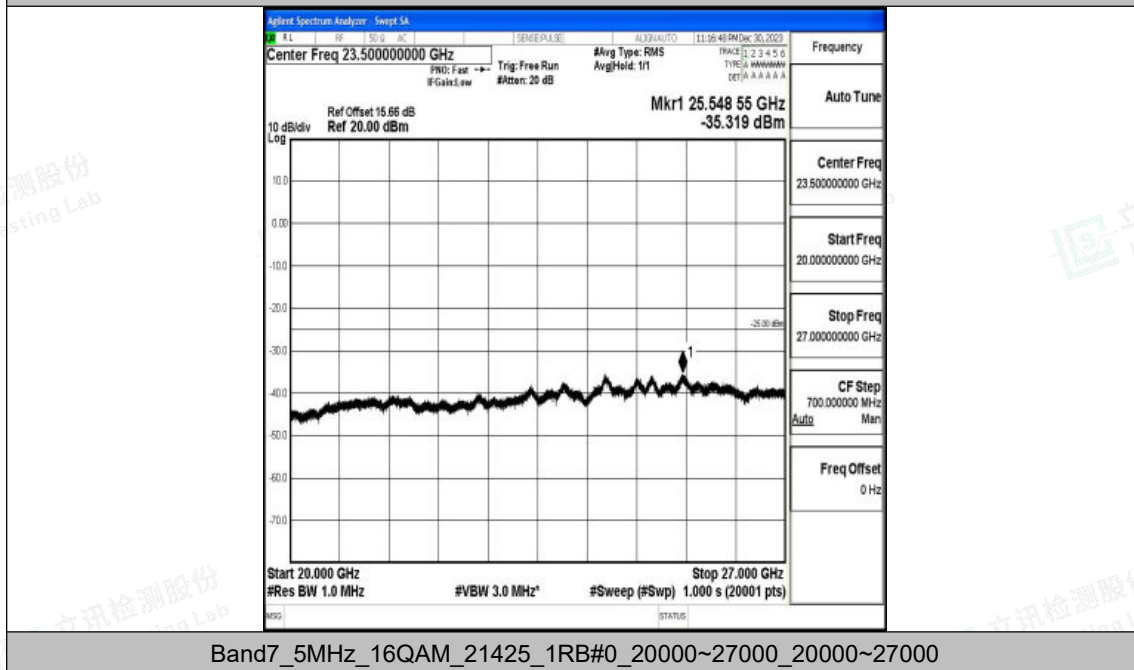
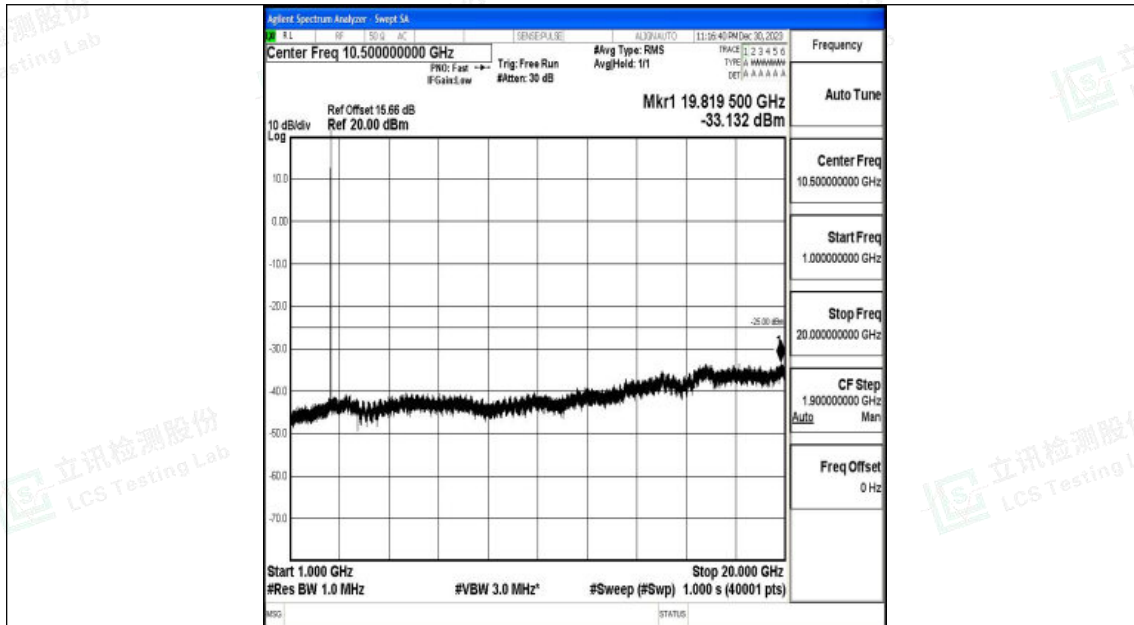


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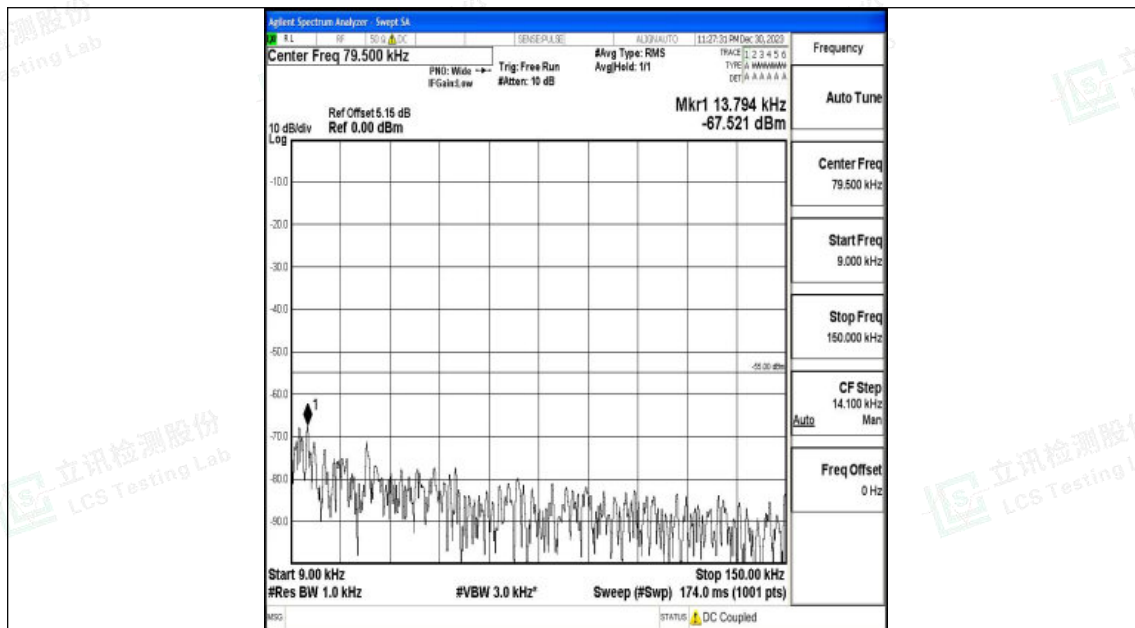


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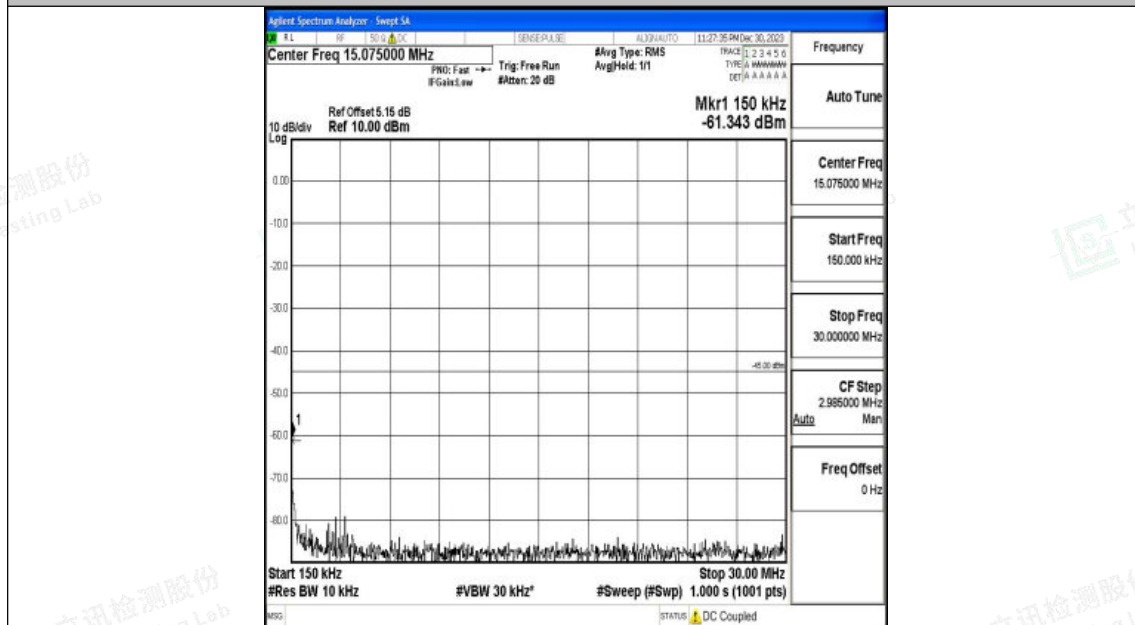
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Band7_10MHz_QPSK_20800_1RB#0_0.009~0.15_0.009~0.15



Band7_10MHz_QPSK_20800_1RB#0_0.15~30_0.15~30

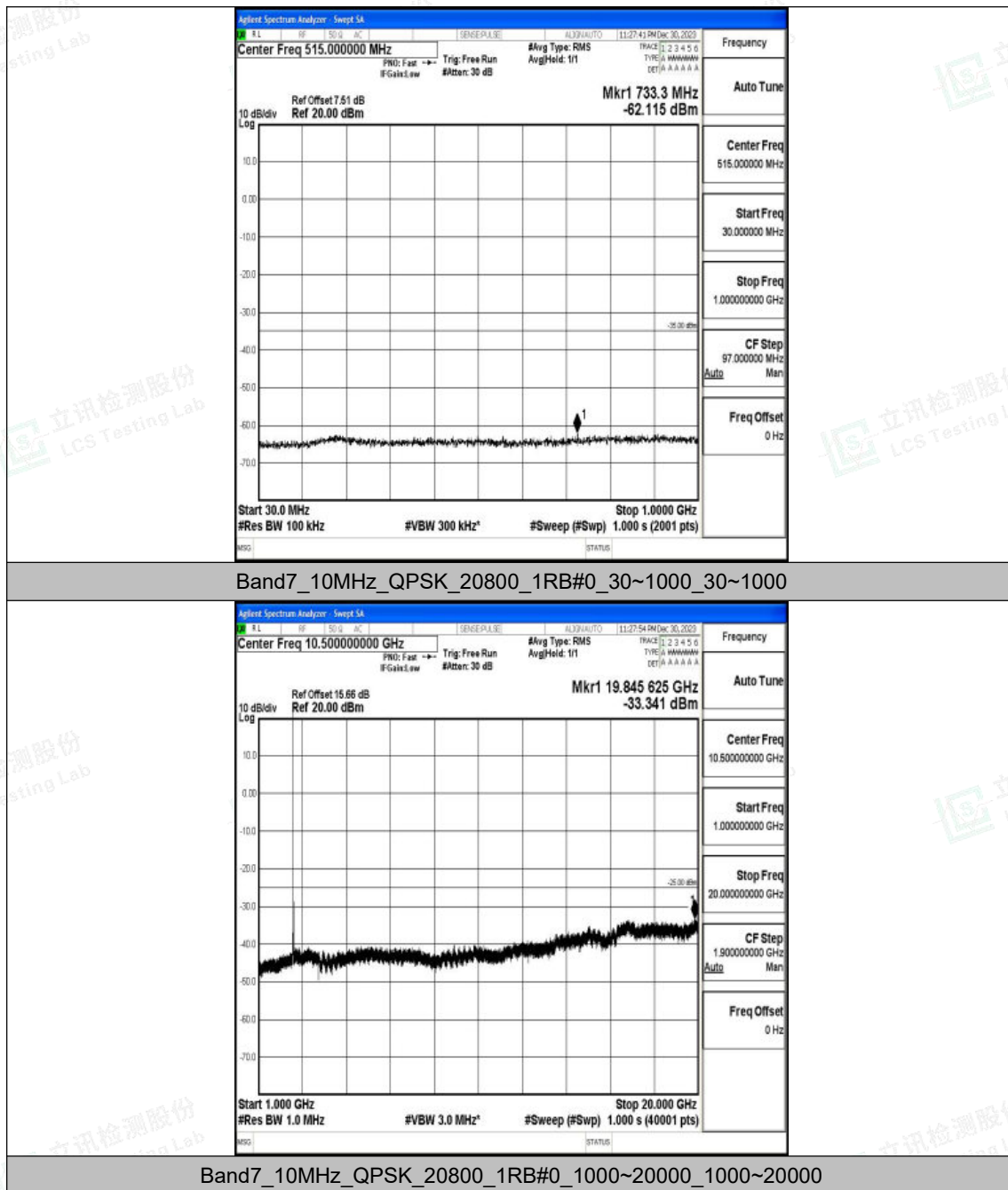


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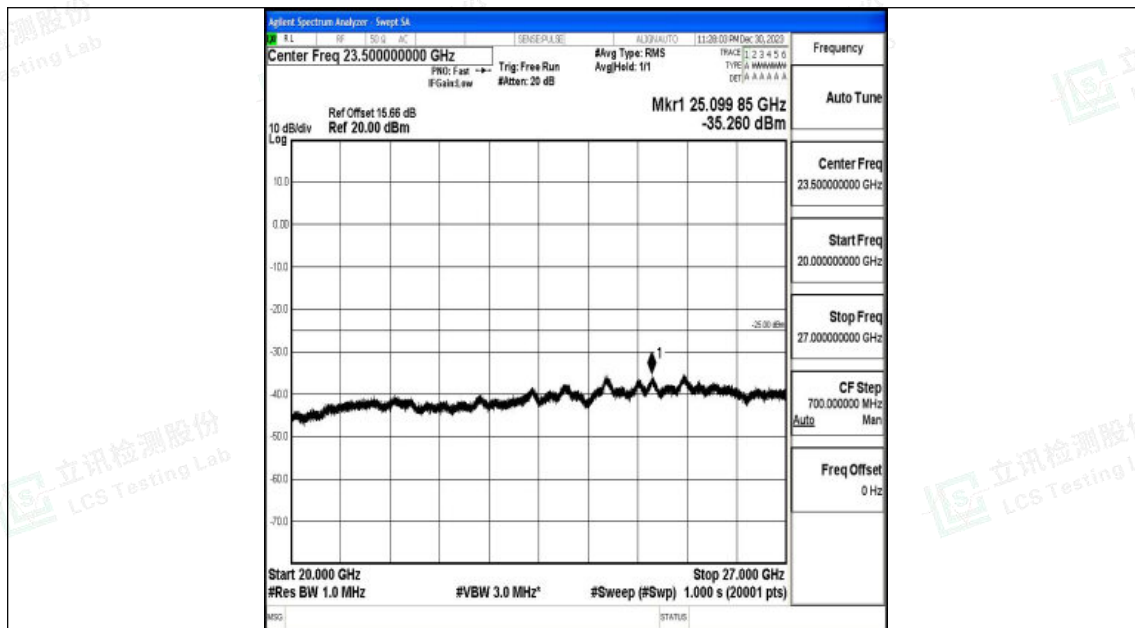


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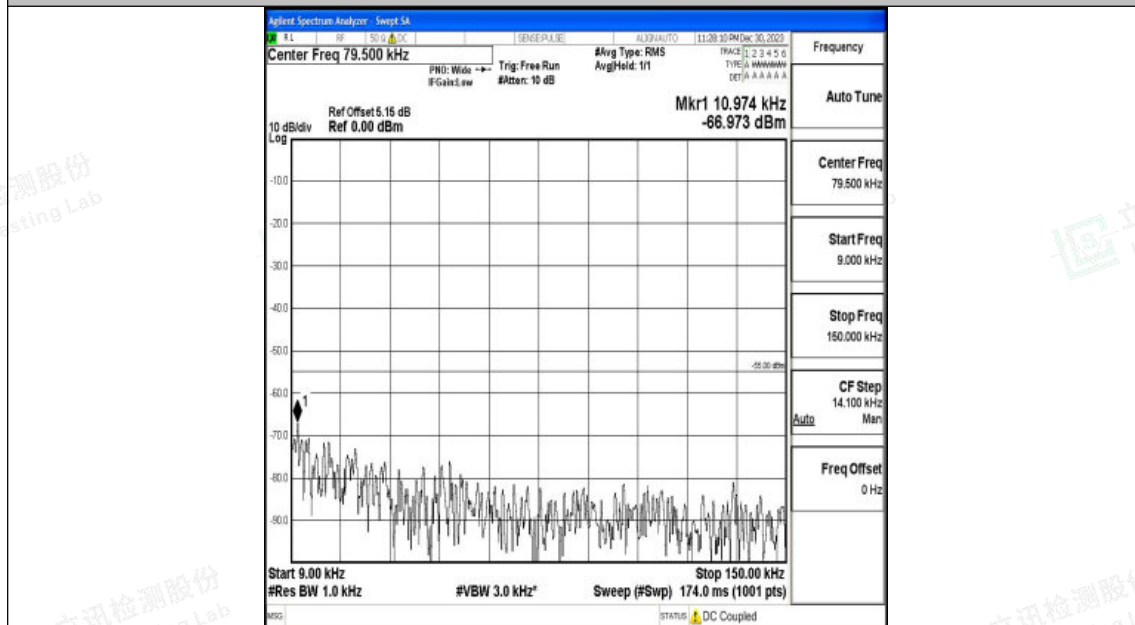
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Band7_10MHz_QPSK_20800_1RB#0_20000~27000_20000~27000



Band7_10MHz_16QAM_20800_1RB#0_0.009~0.15_0.009~0.15

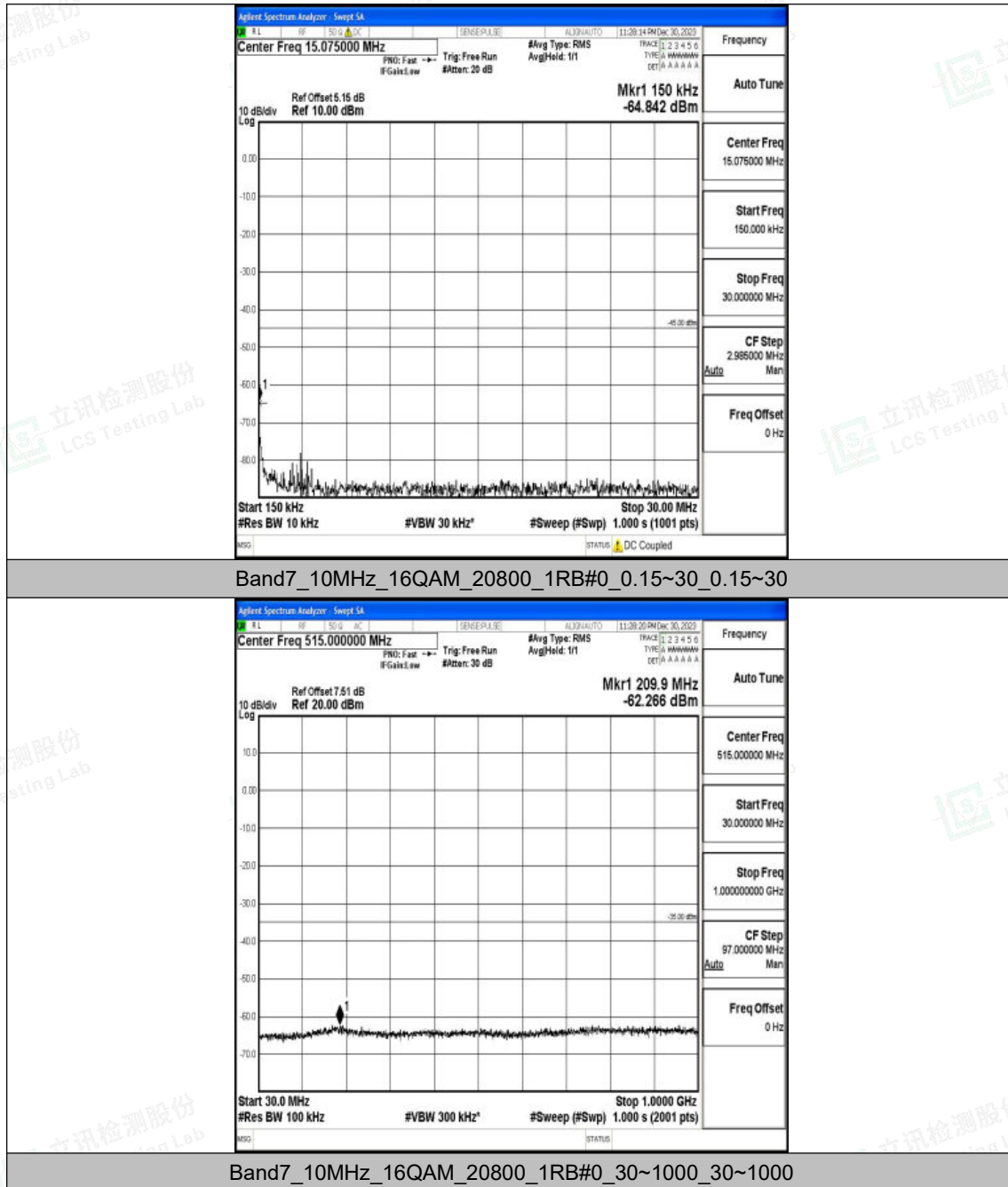


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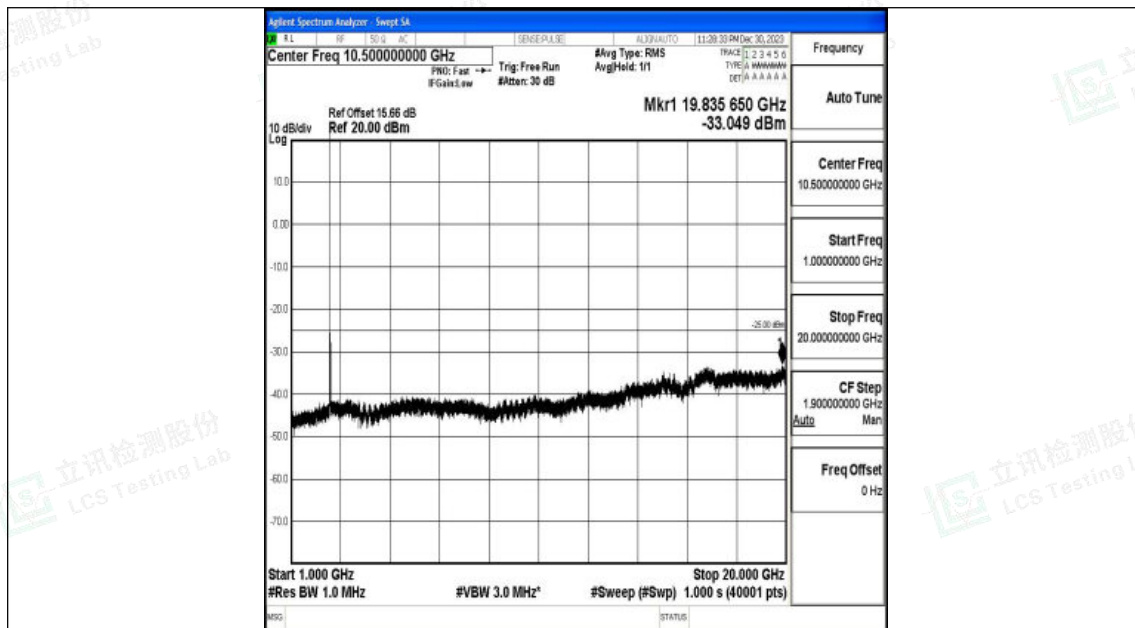


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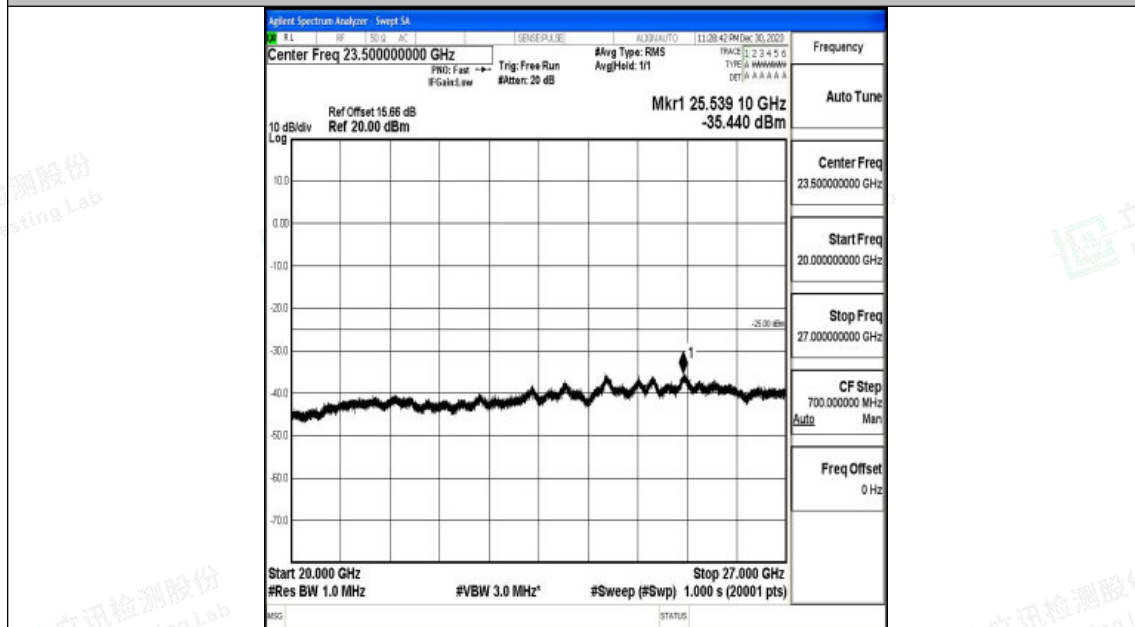
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Band7_10MHz_16QAM_20800_1RB#0_1000~20000_1000~20000



Band7_10MHz_16QAM_20800_1RB#0_20000~27000_20000~27000



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