



Appendix C: Test Data for E-UTRA Band 5

Product Name: 4G Module

Test Model: Air795U

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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C.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	22.87	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.50	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.88	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.44	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.70	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.28	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.52	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.05	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.55	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.93	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.66	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.11	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.51	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.19	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.65	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.10	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.72	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.17	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.57	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.16	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.56	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.06	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.60	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.05	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	5.55	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.14	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.39	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.95	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.76	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.29	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.32	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.40	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.03	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.96	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.55	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.65	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.25	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.51	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.11	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.32	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.91	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.55	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.53	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.18	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.30	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.95	13	PASS



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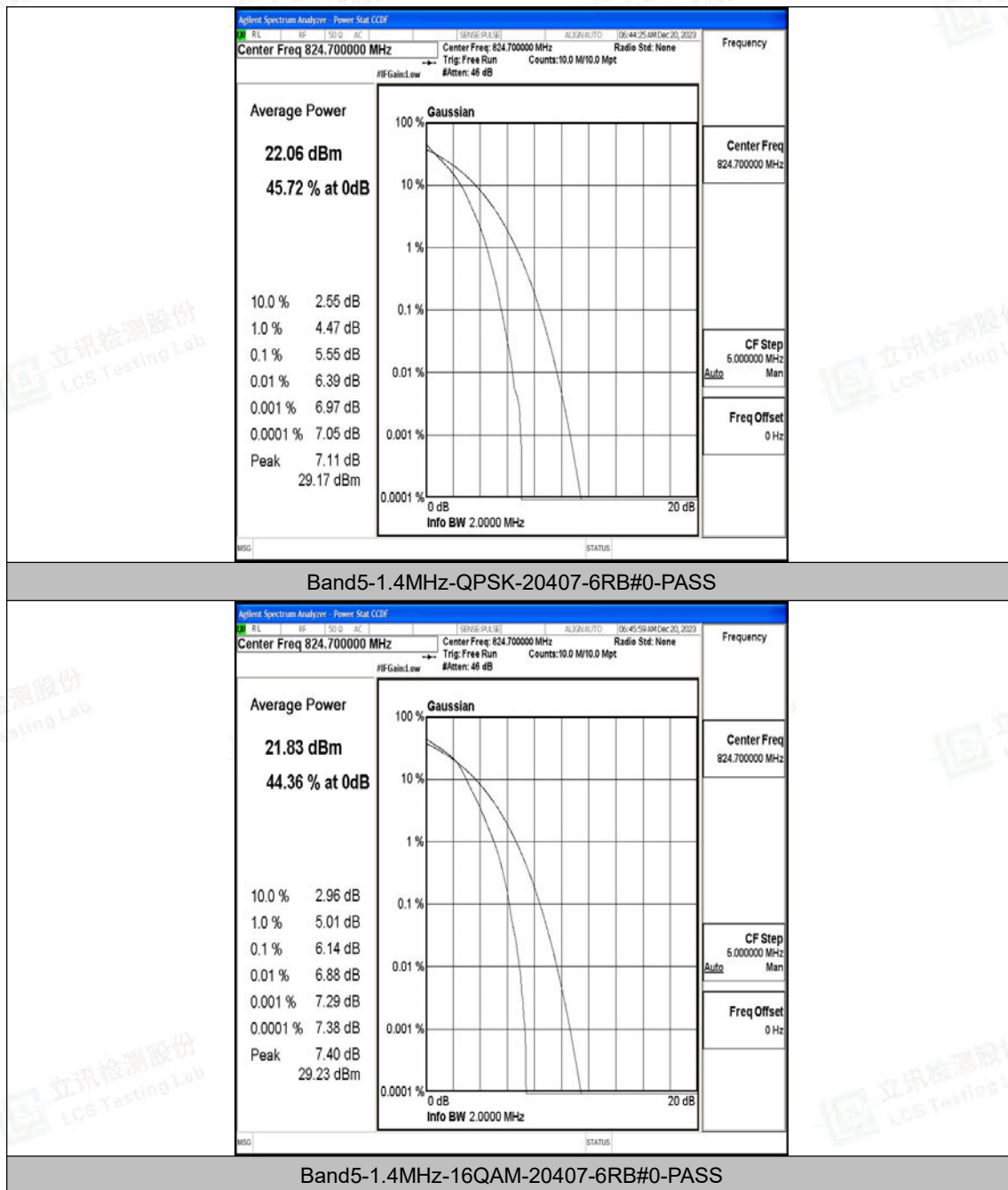
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Test Graphs

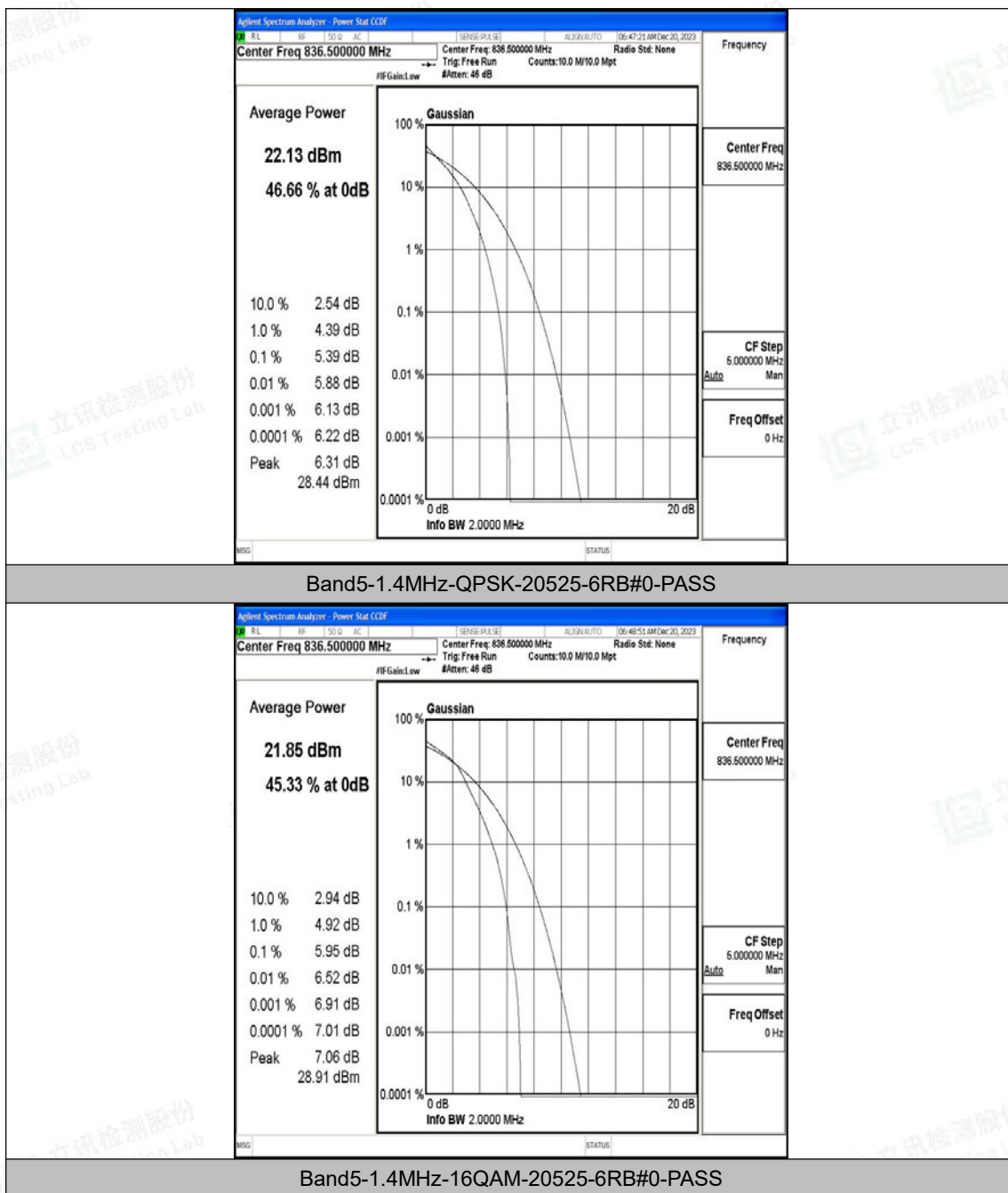


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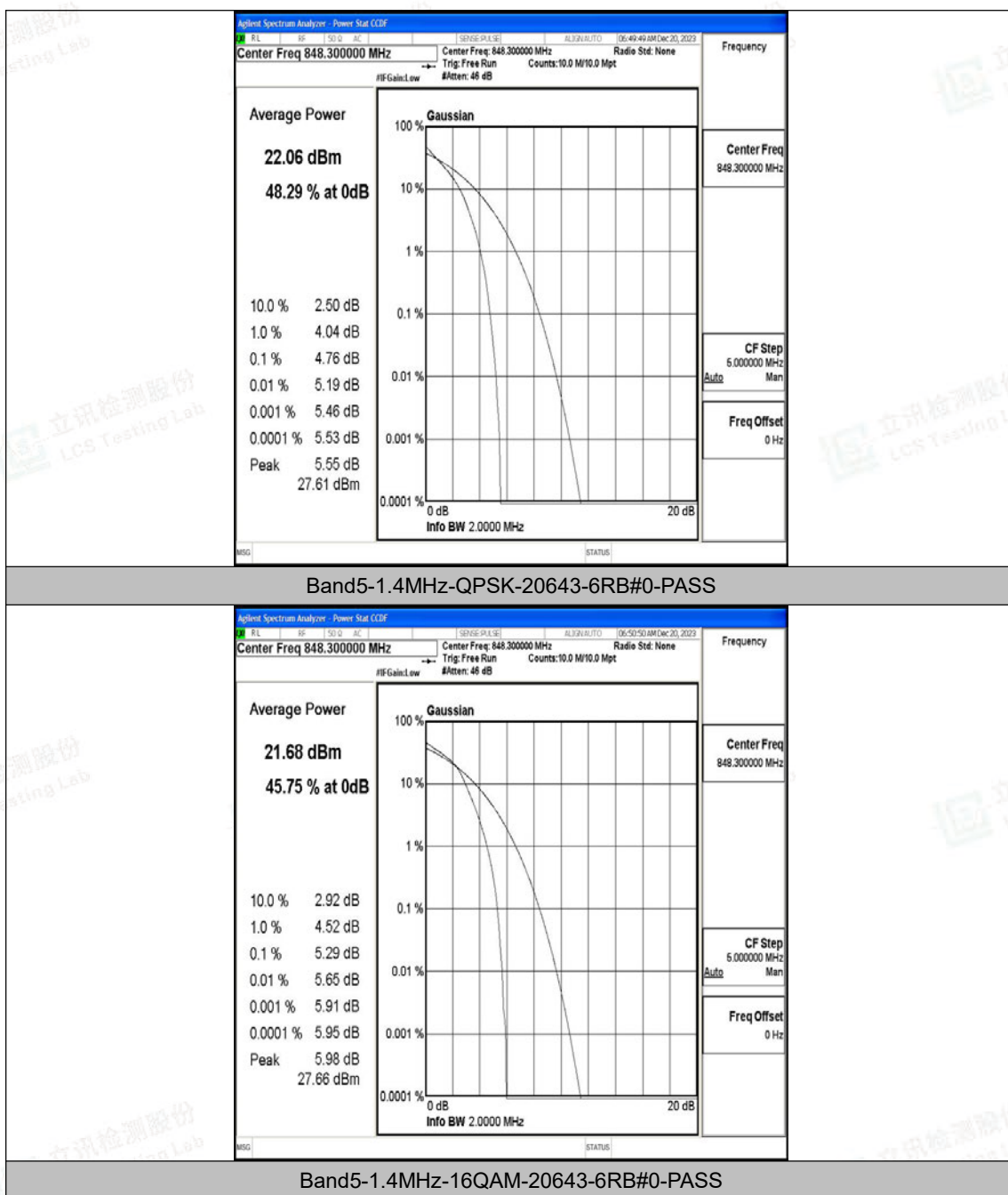


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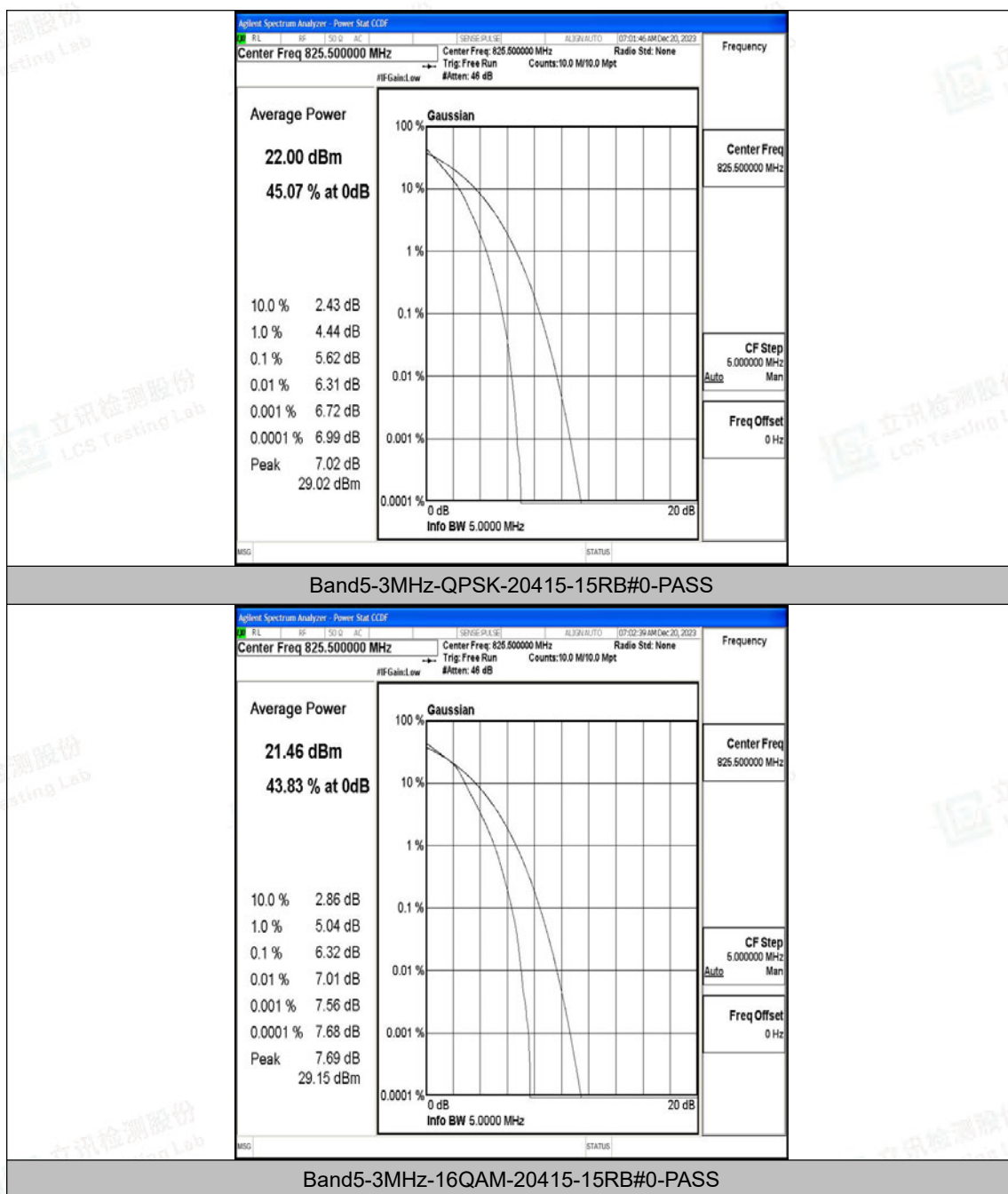


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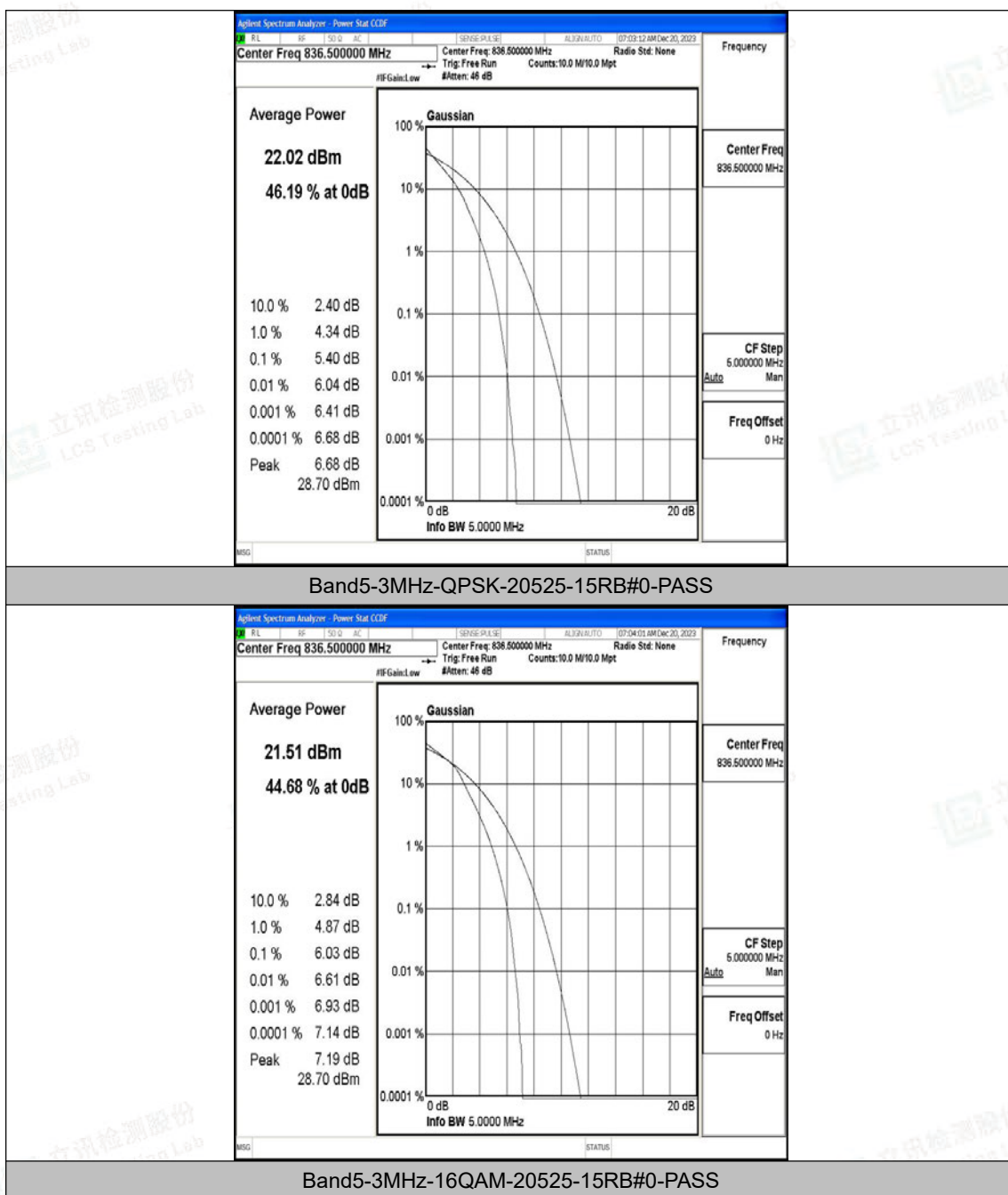


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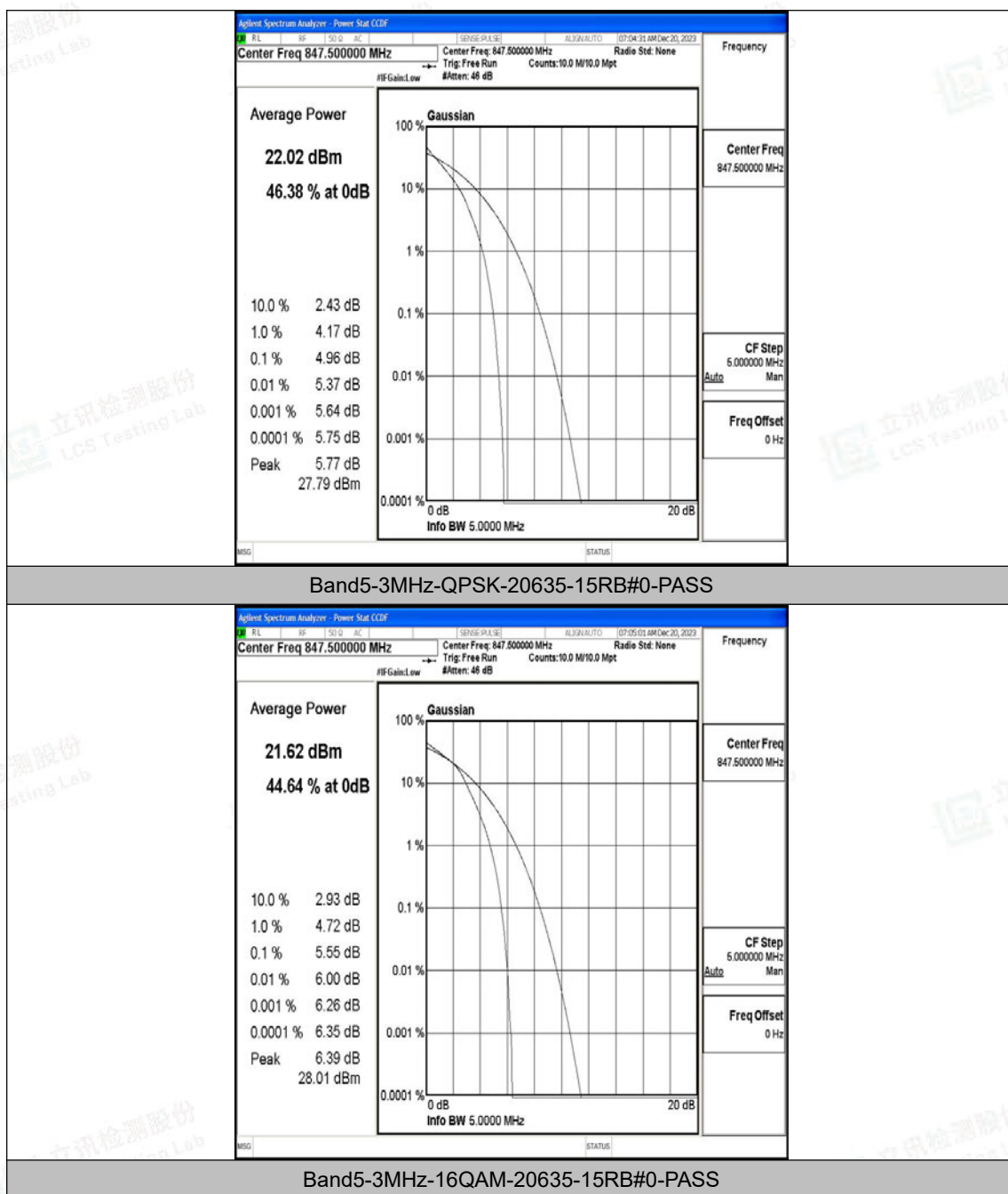


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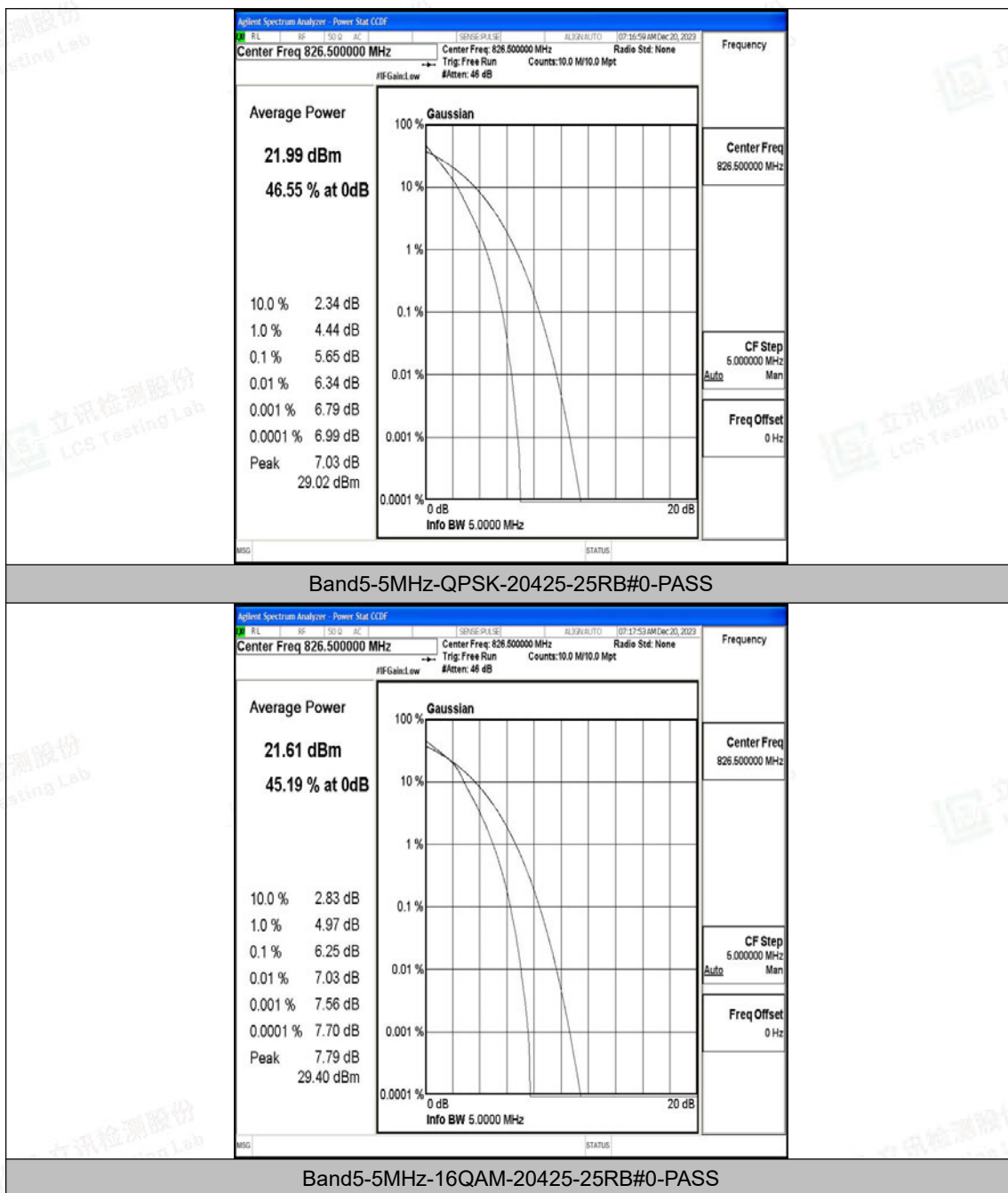


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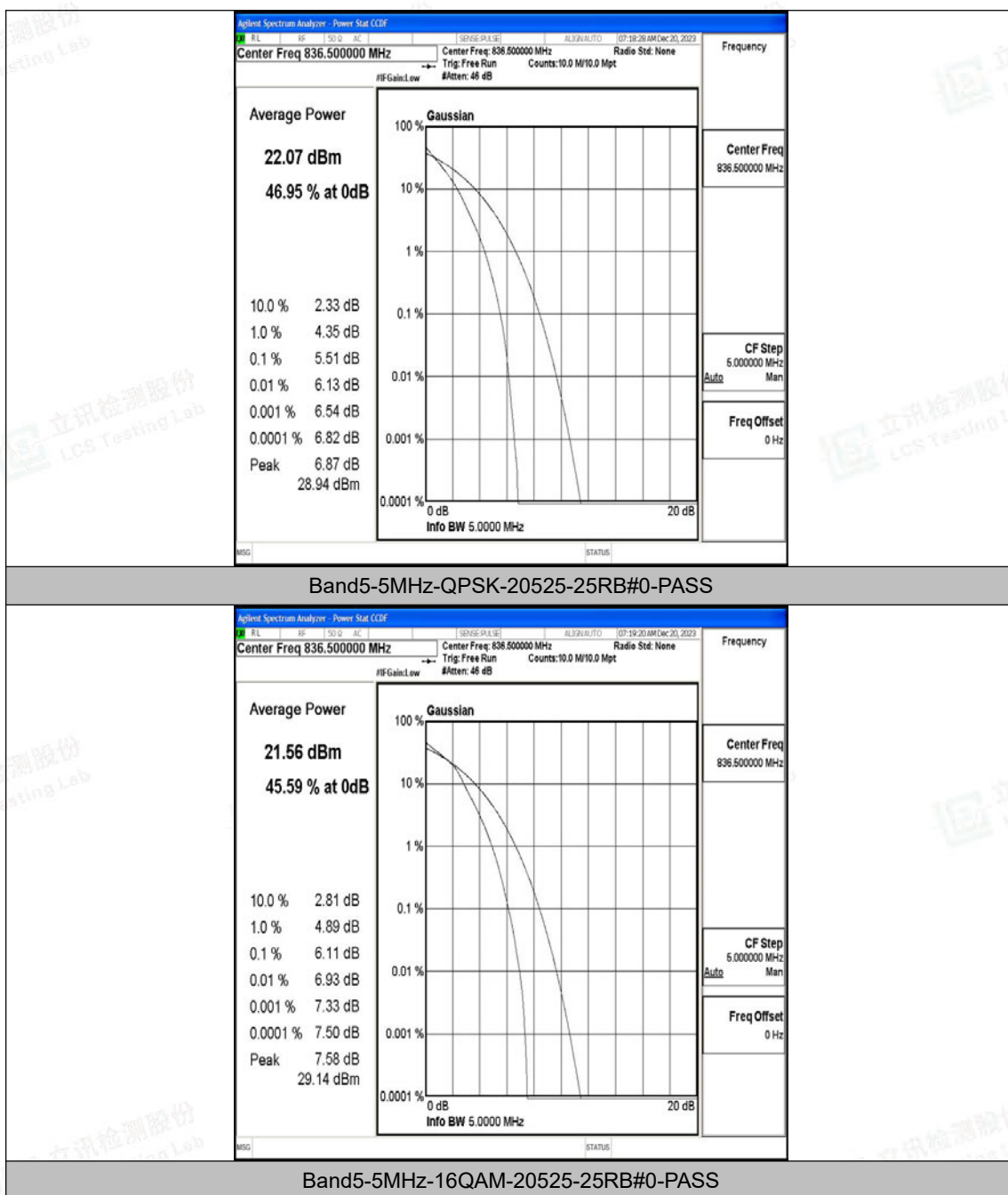


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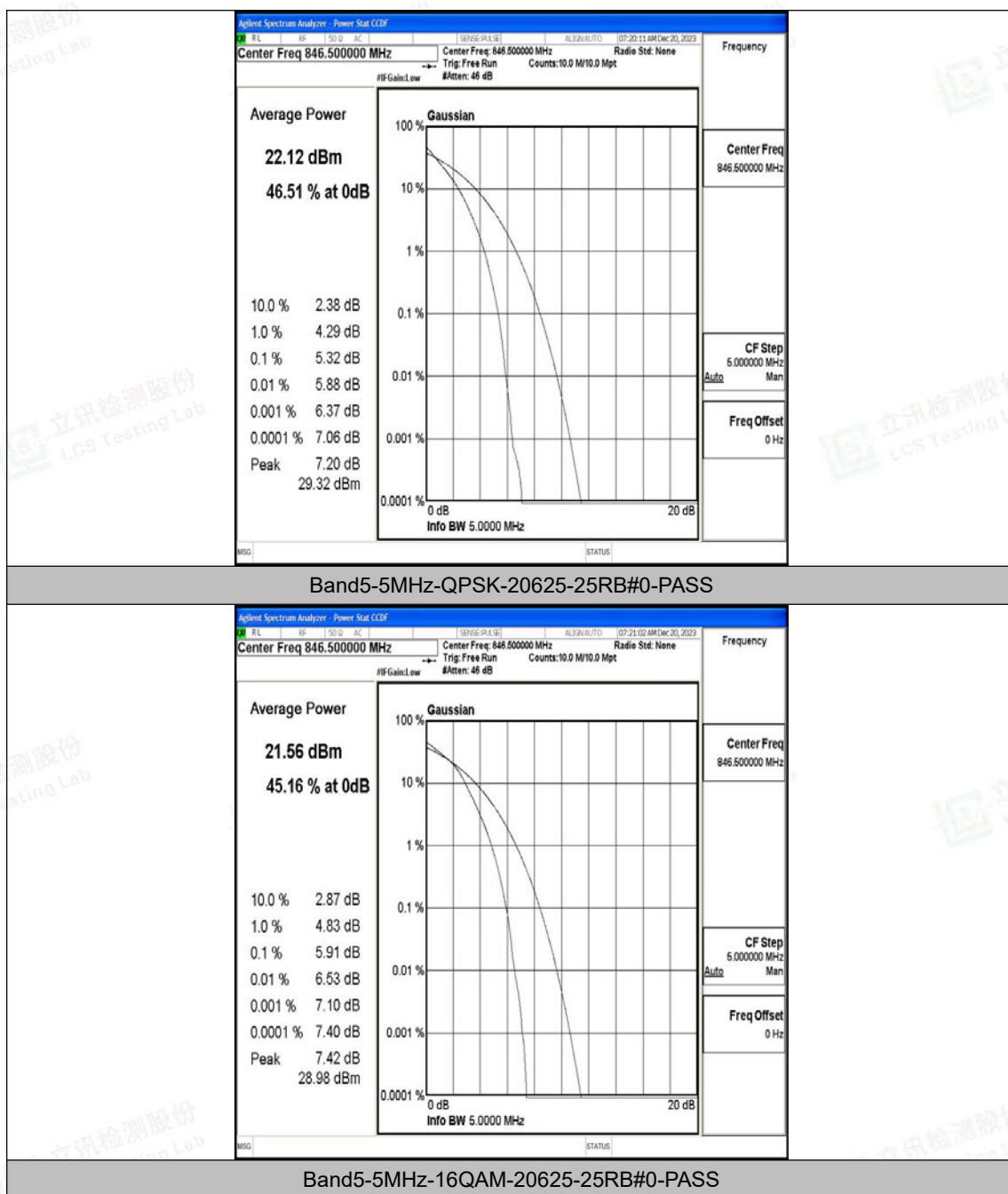


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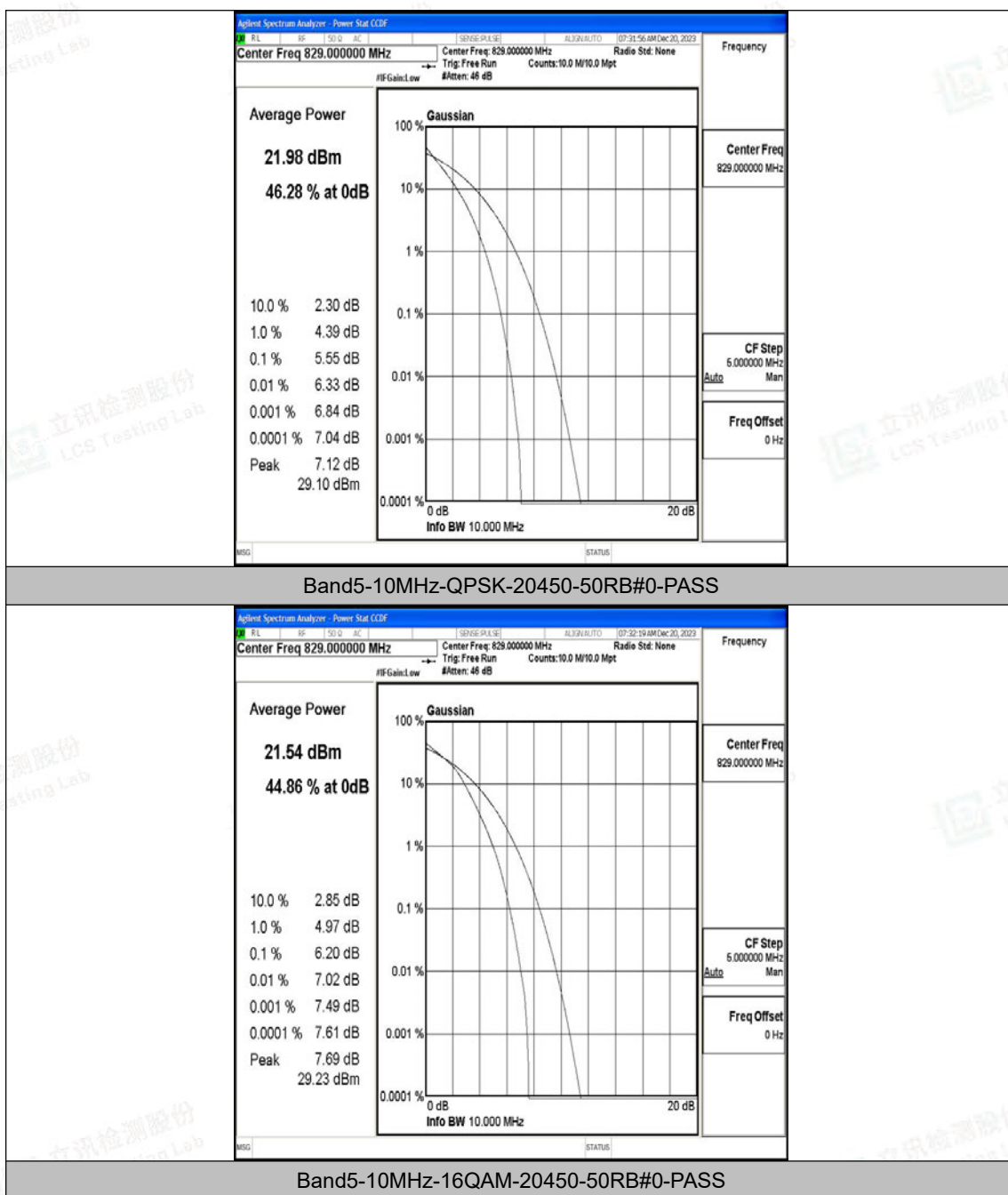


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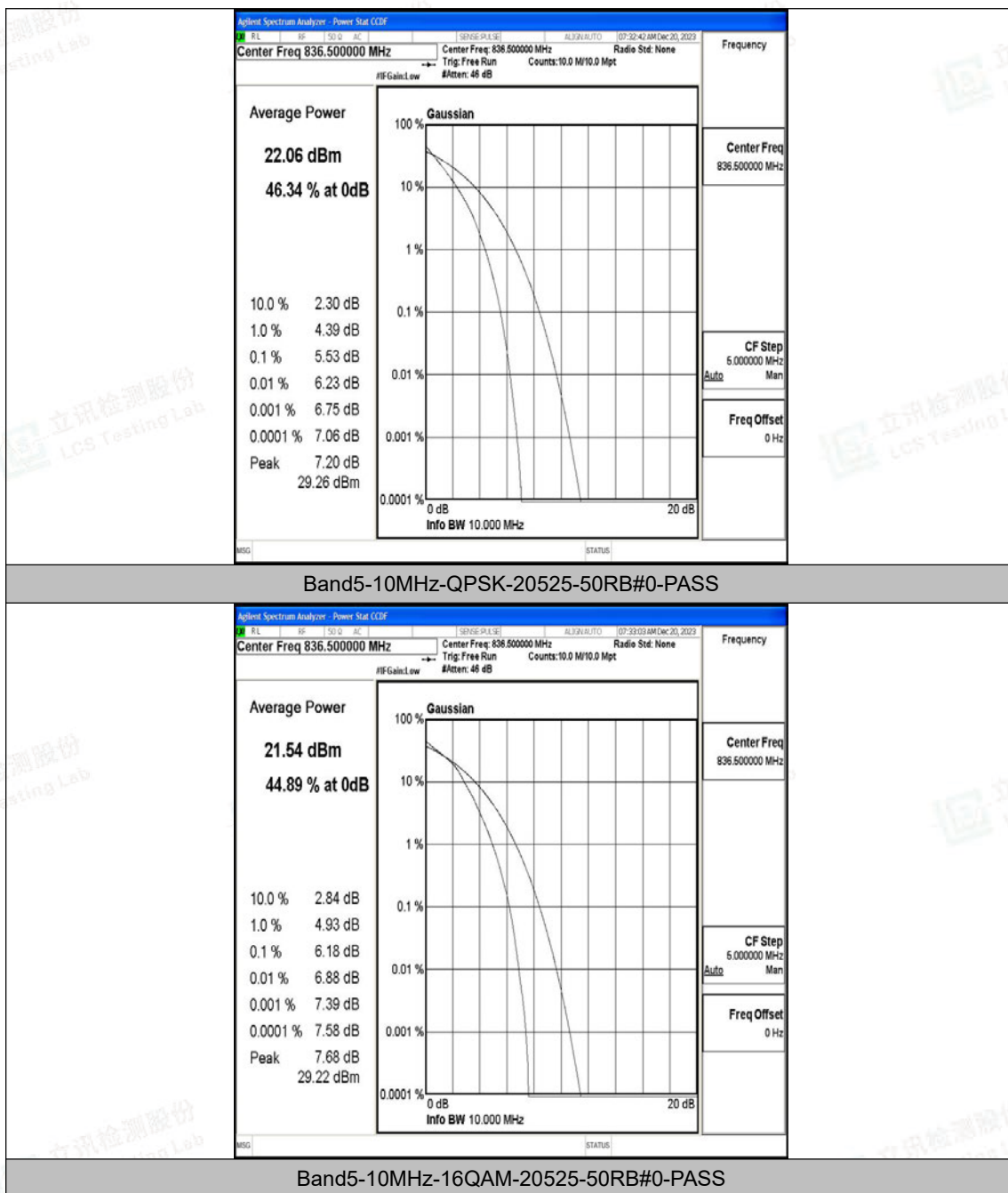


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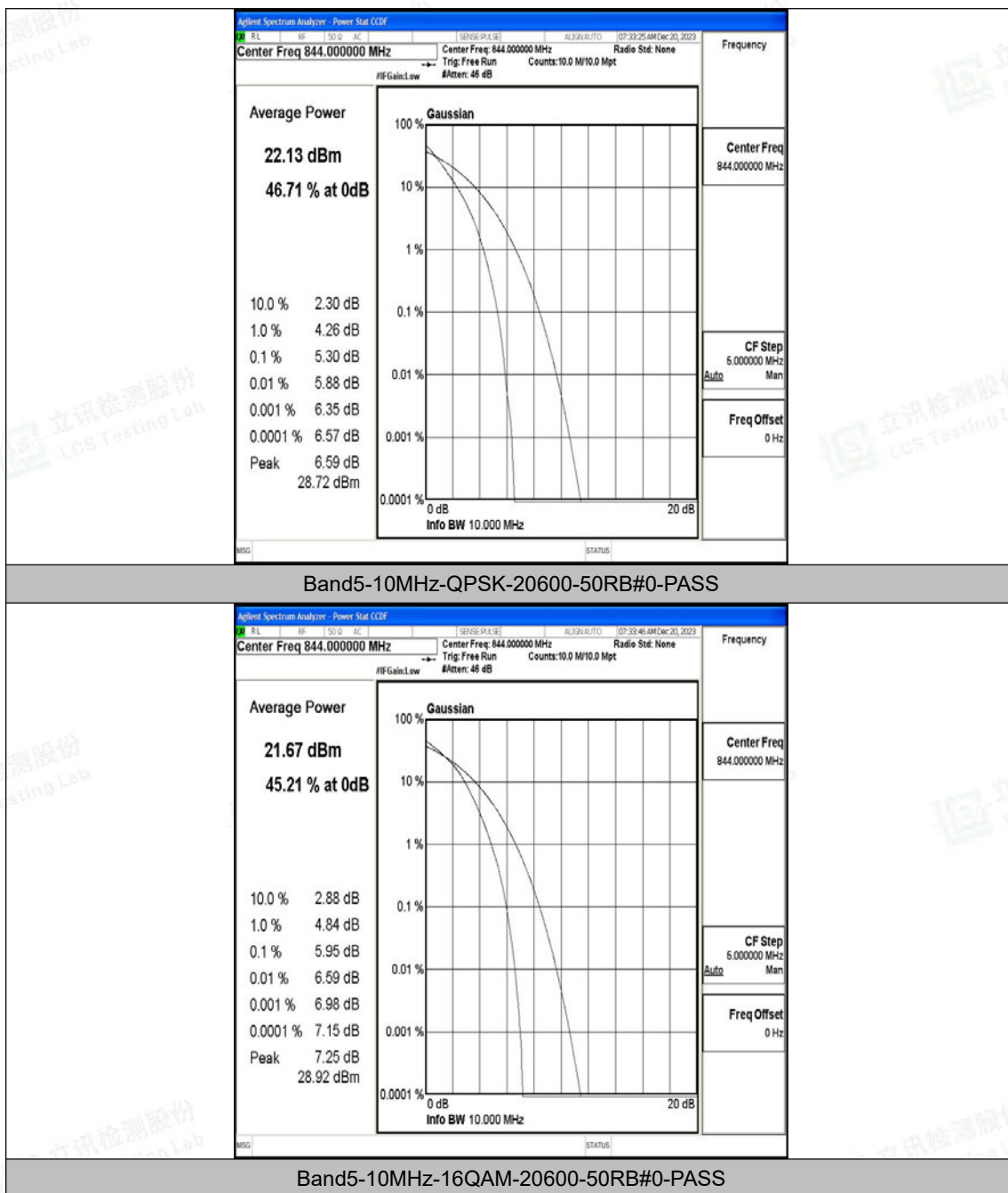


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C.3 26dB Bandwidth and Occupied Bandwidth

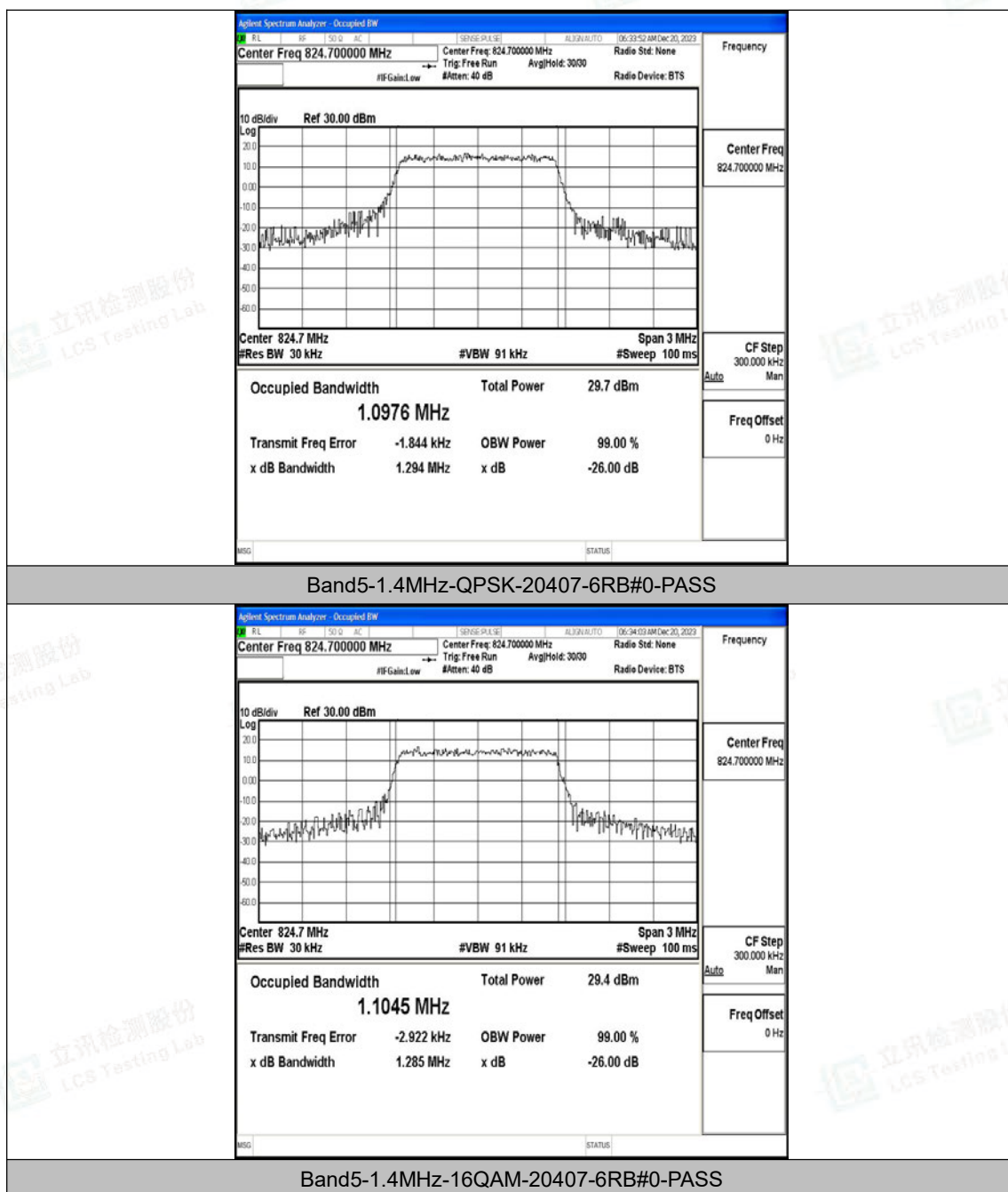
Test Result

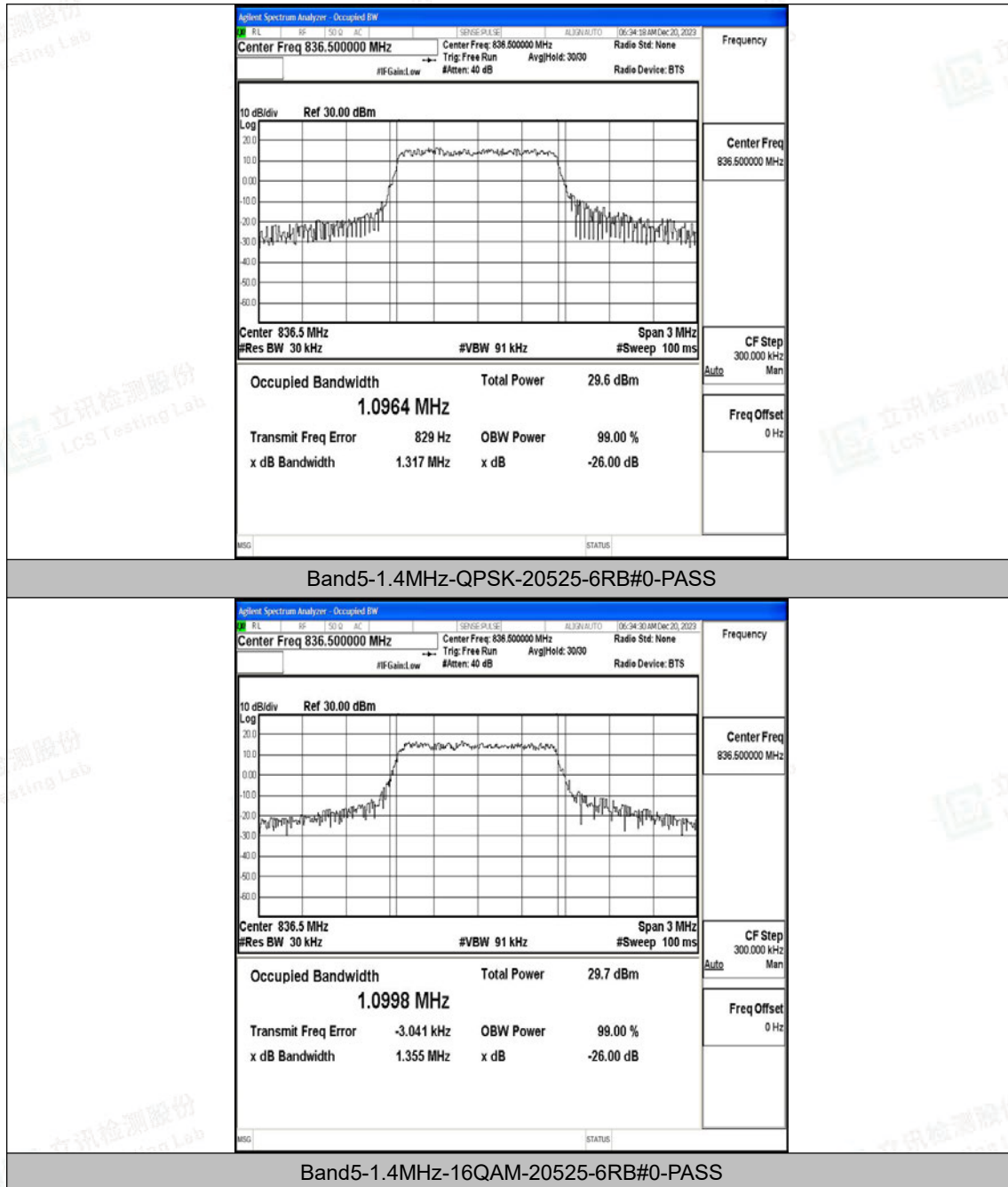
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0976	1.294	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1045	1.285	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0964	1.317	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0998	1.355	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.1007	1.295	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0896	1.373	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7206	3.097	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6967	3.149	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7073	3.168	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7059	3.161	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7113	3.157	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7123	3.325	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5164	5.288	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5189	5.264	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5194	5.213	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5233	5.347	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5177	5.243	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5517	5.410	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9788	10.06	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9911	10.03	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0001	10.14	PASS
Band5	10MHz	16QAM	20525	50RB#0	9.0037	10.58	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9703	9.925	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9601	9.830	PASS





Test Graphs



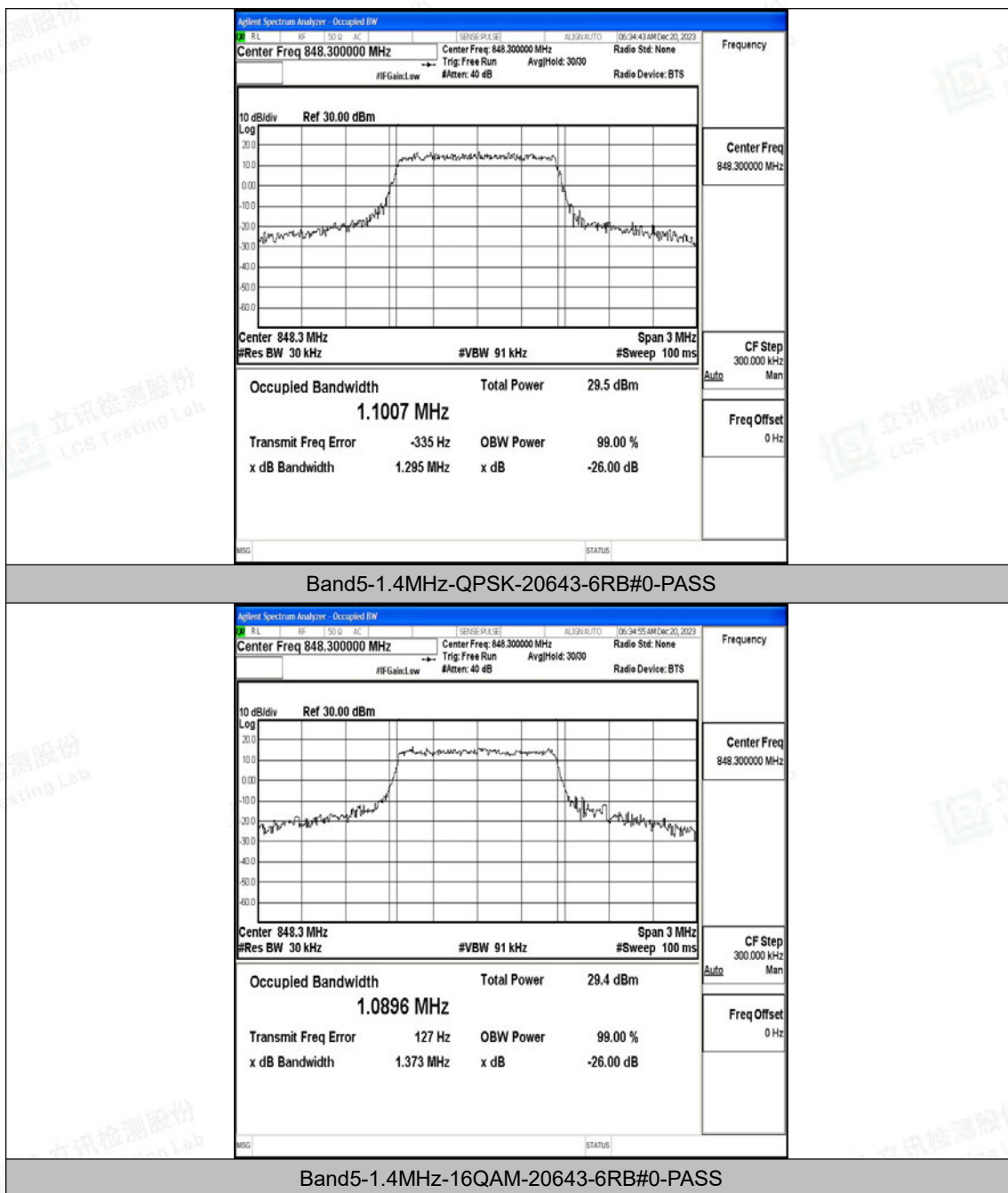


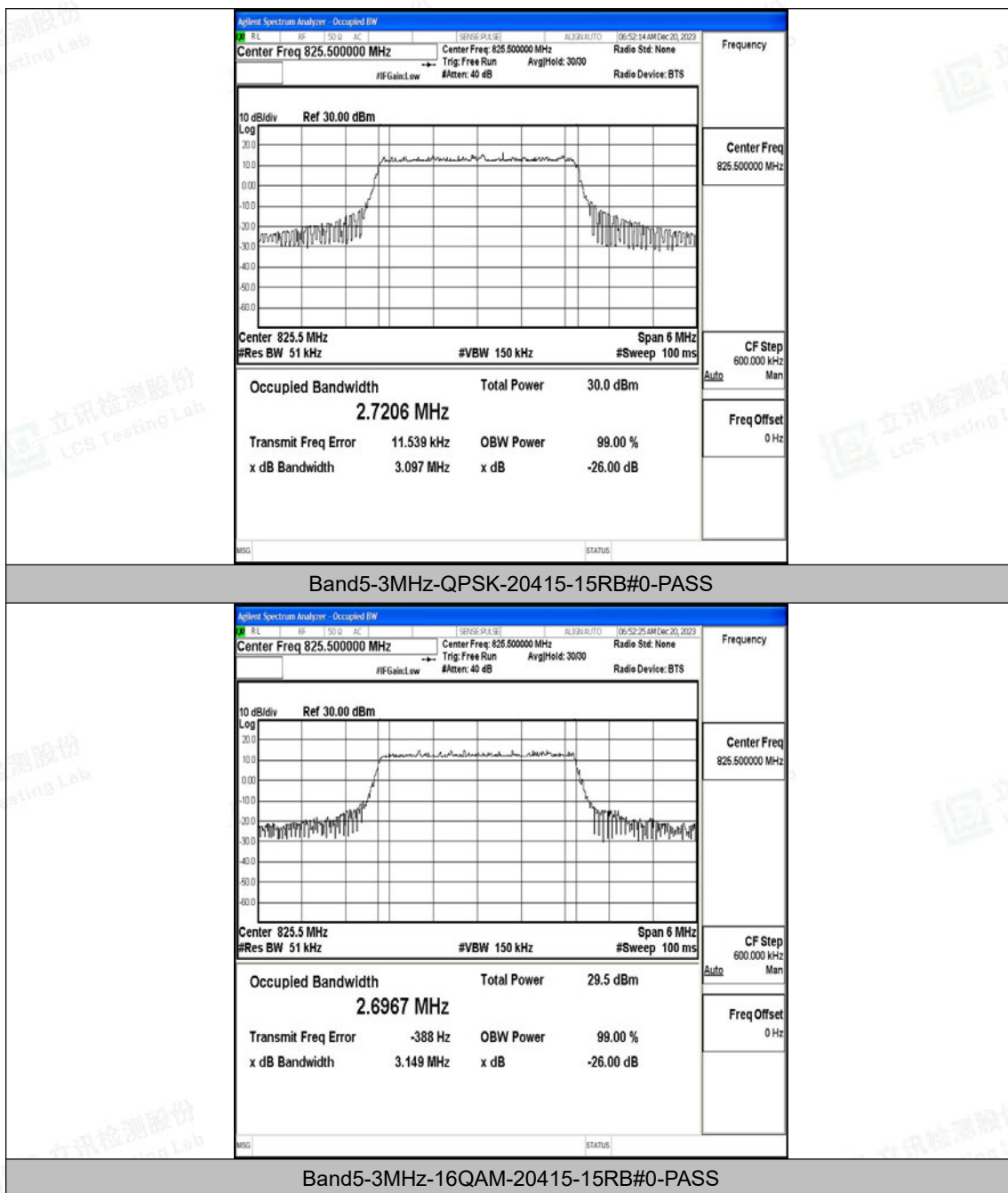
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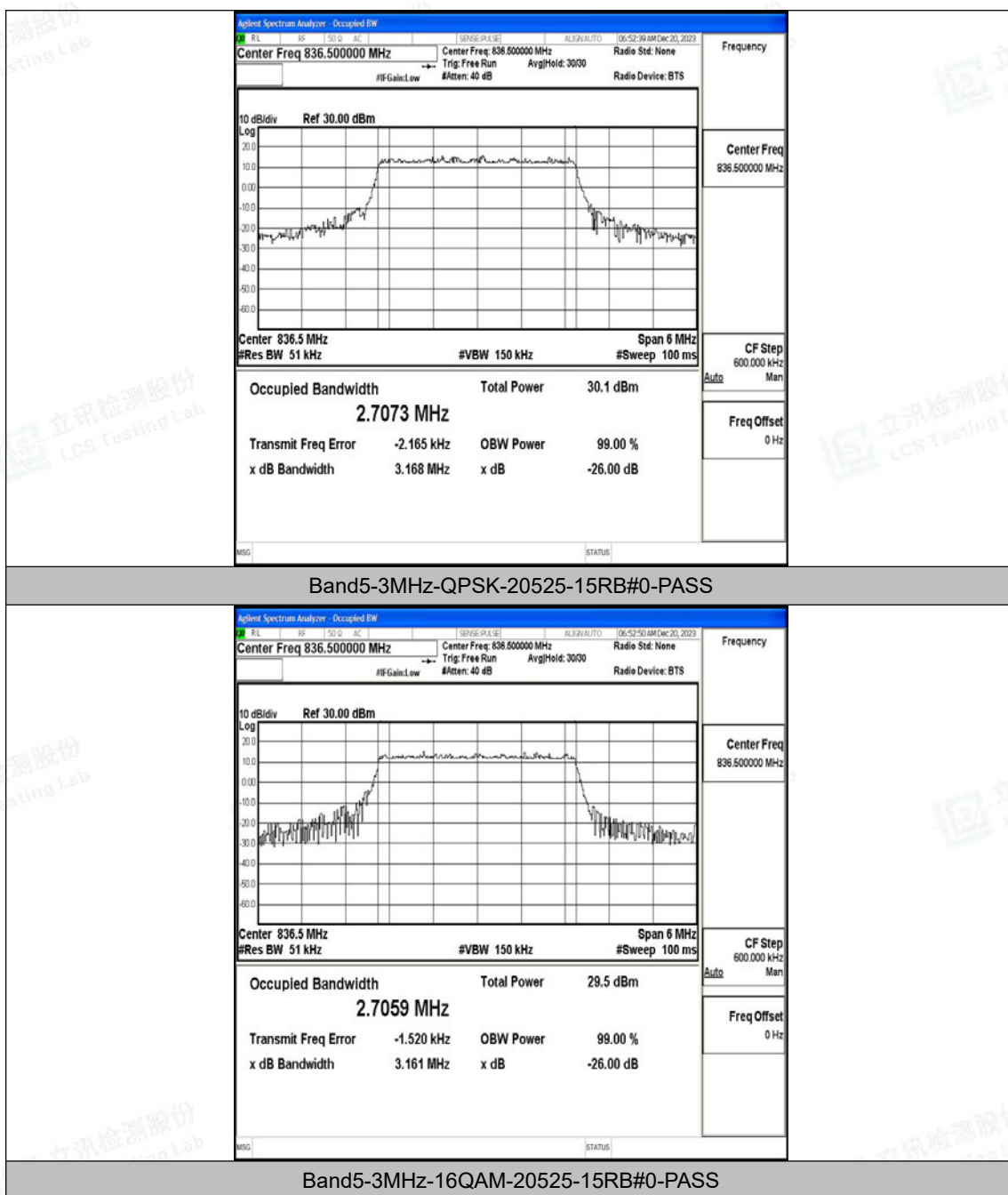


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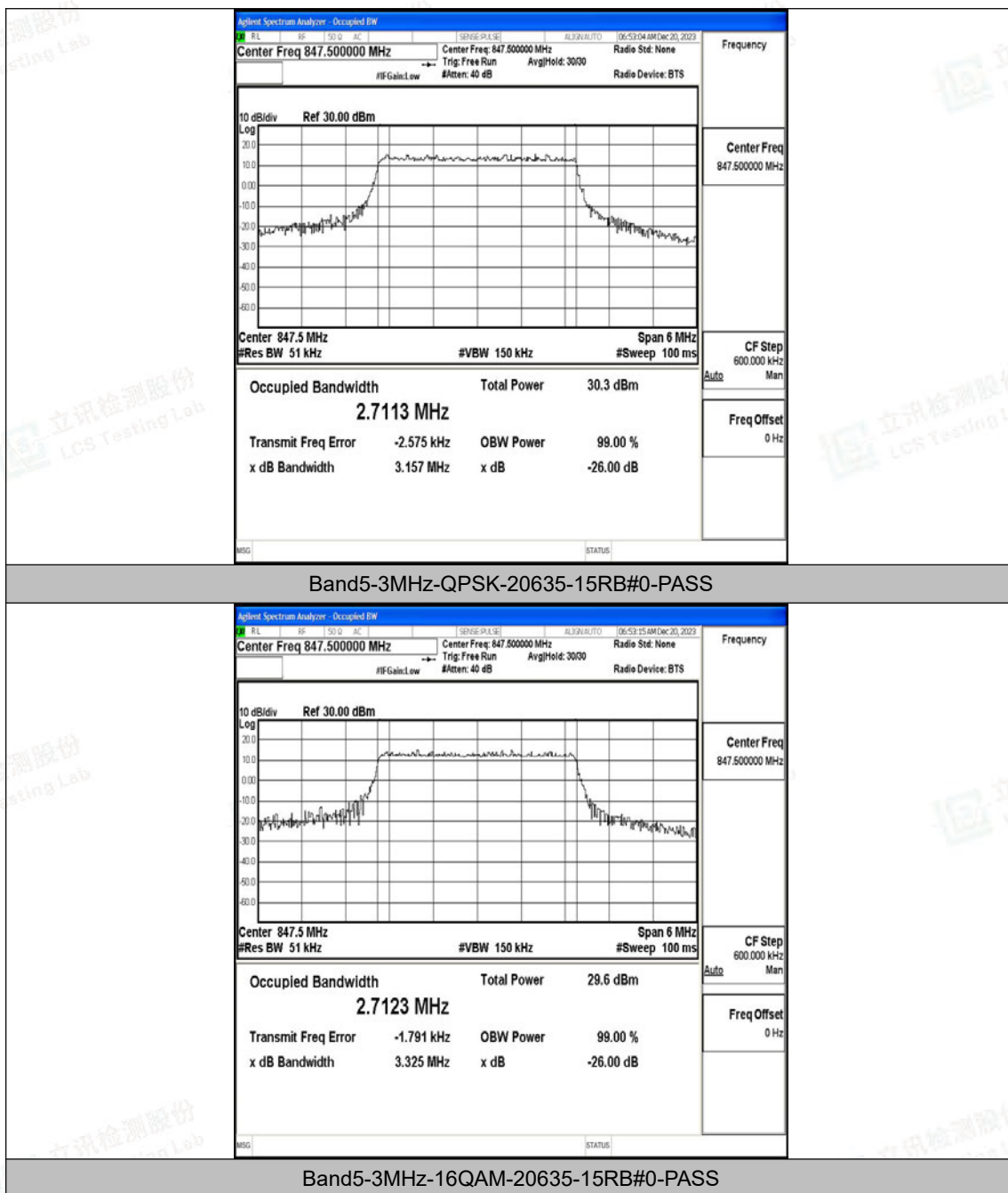


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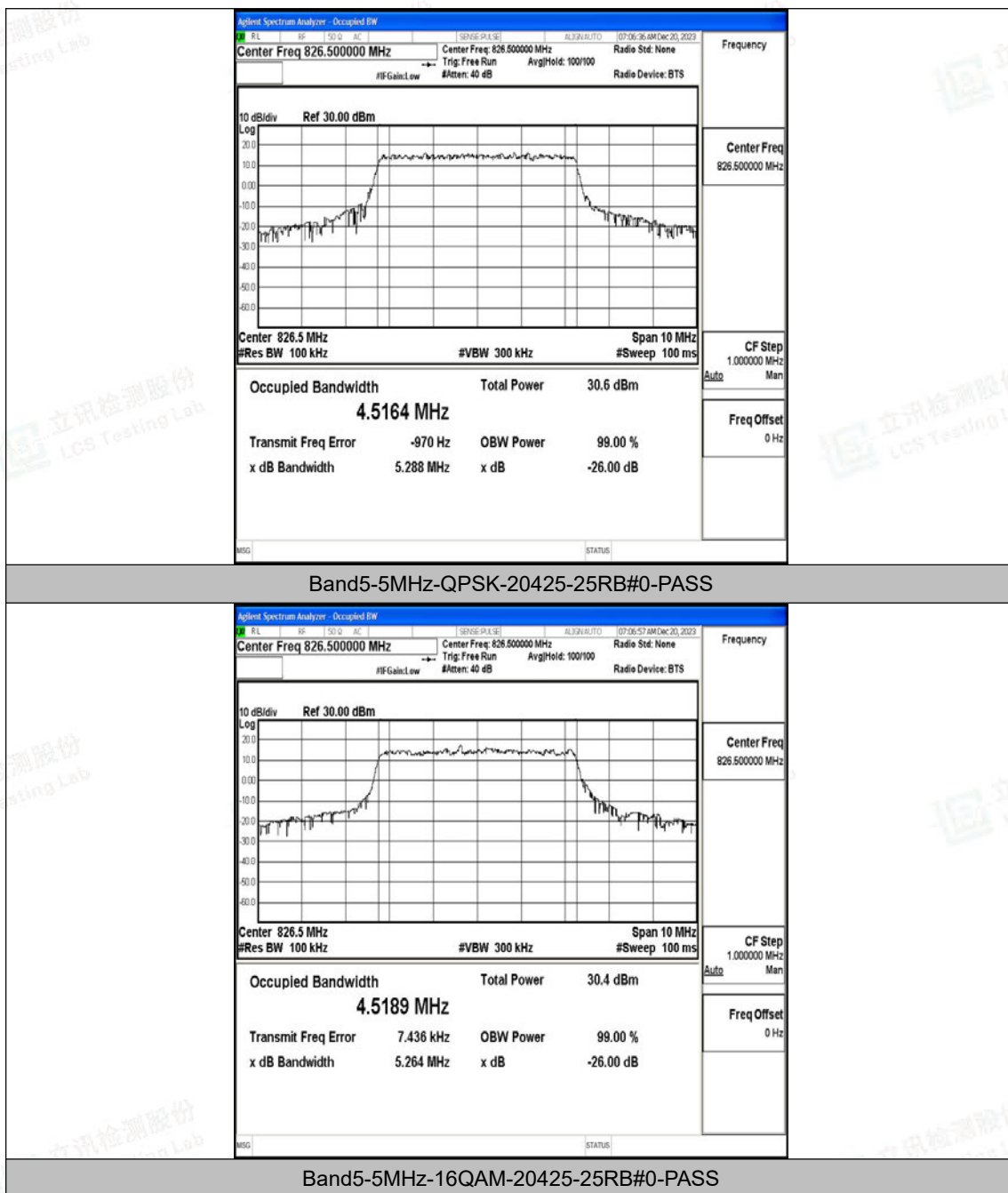


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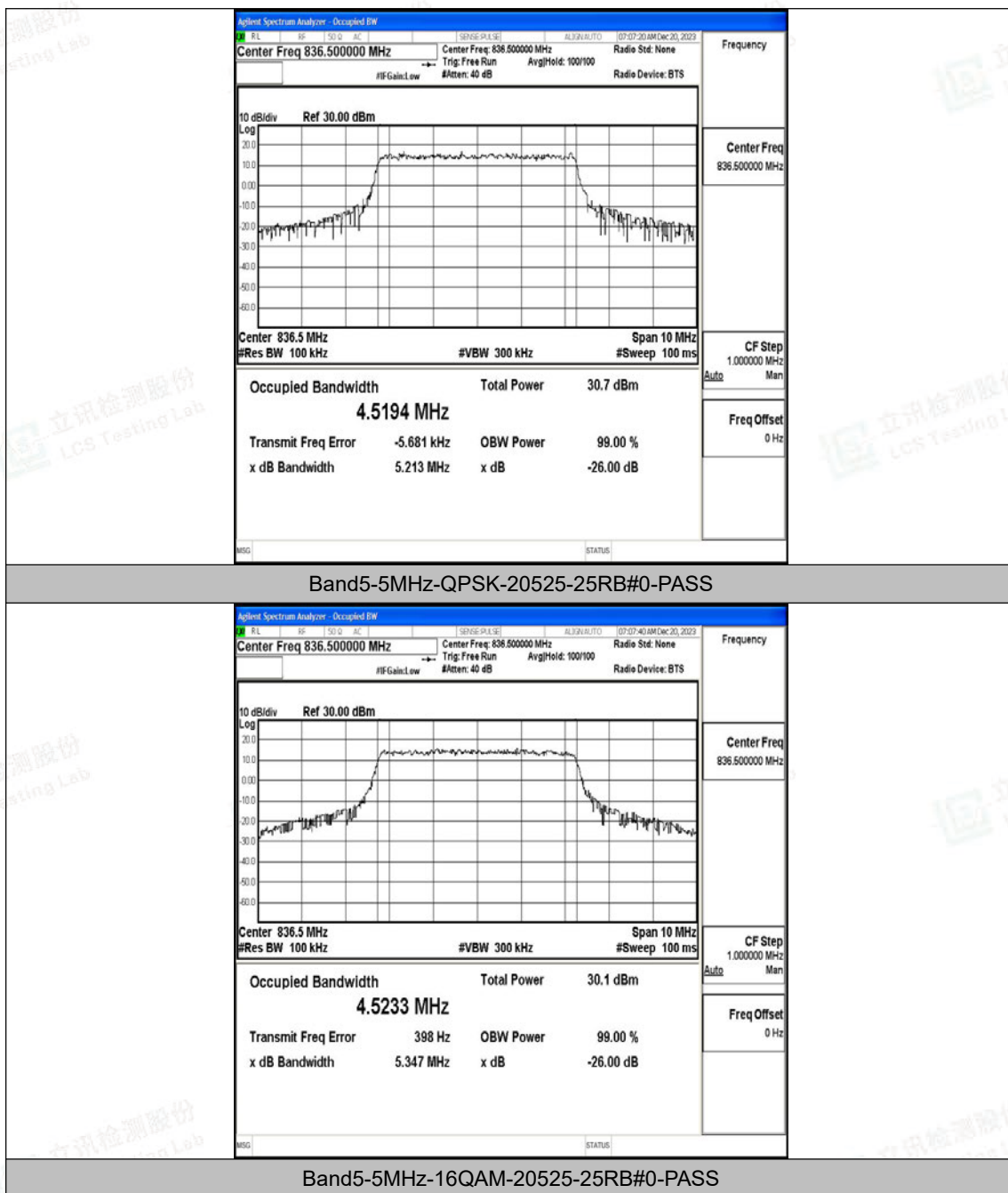


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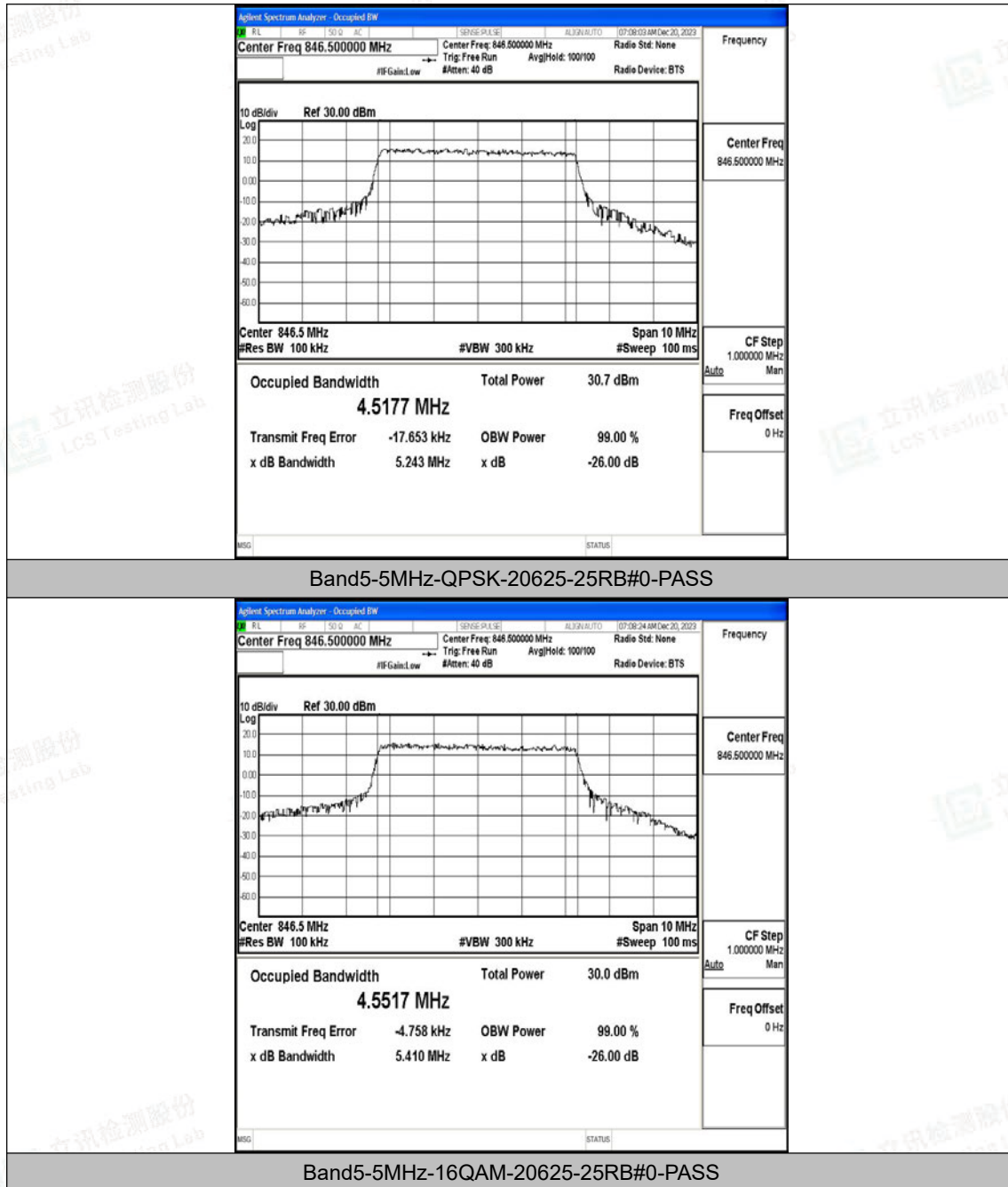


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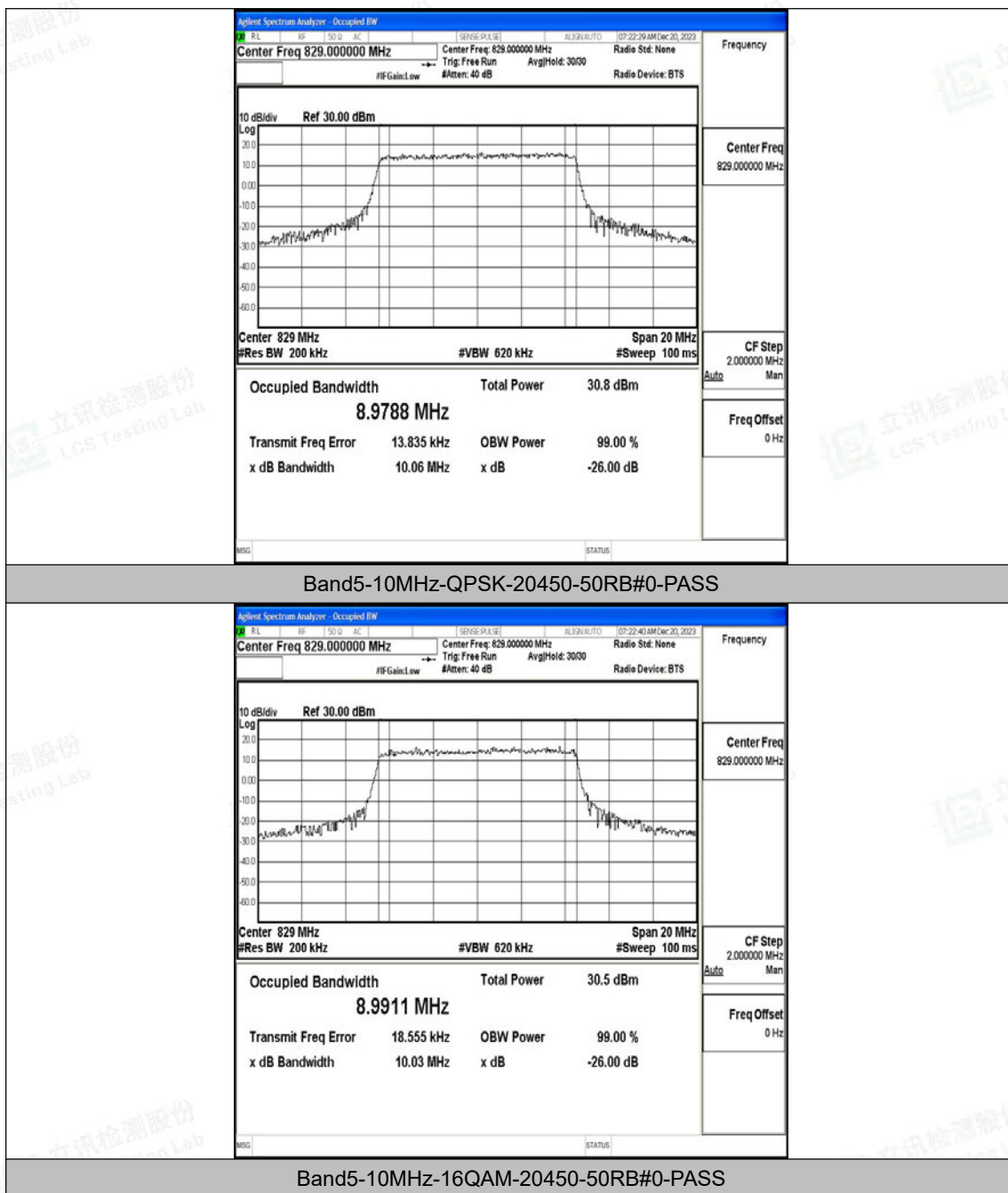


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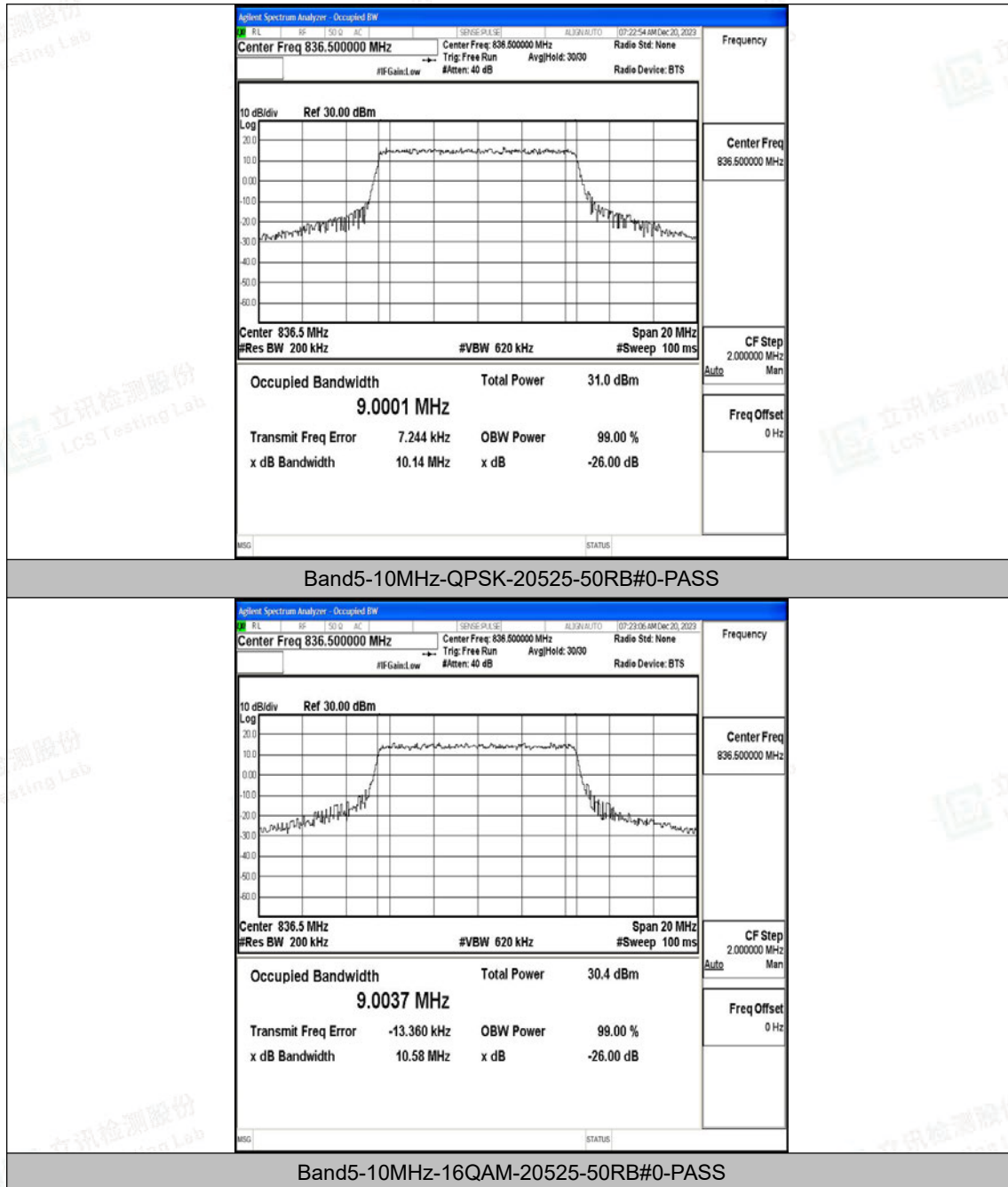


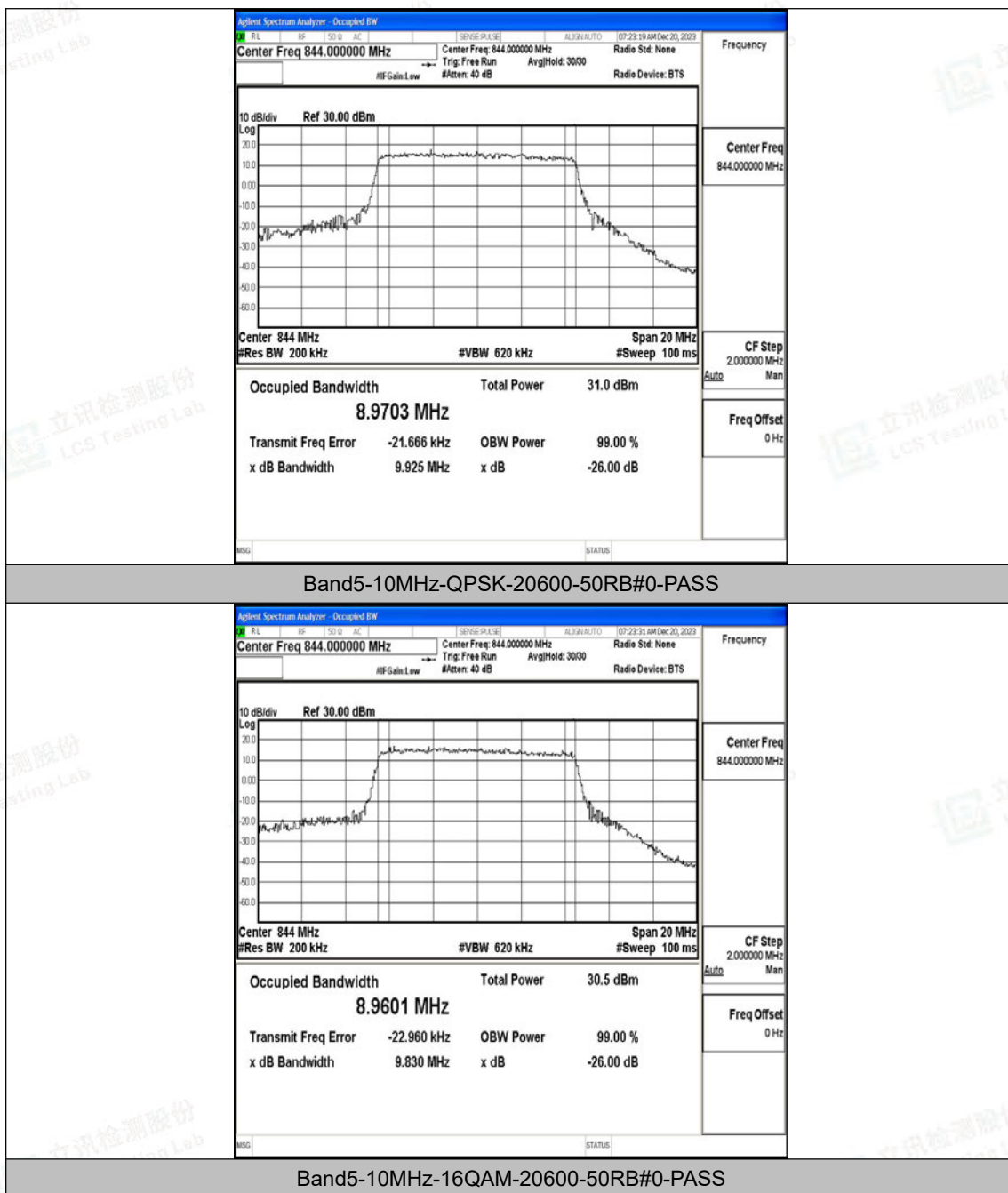
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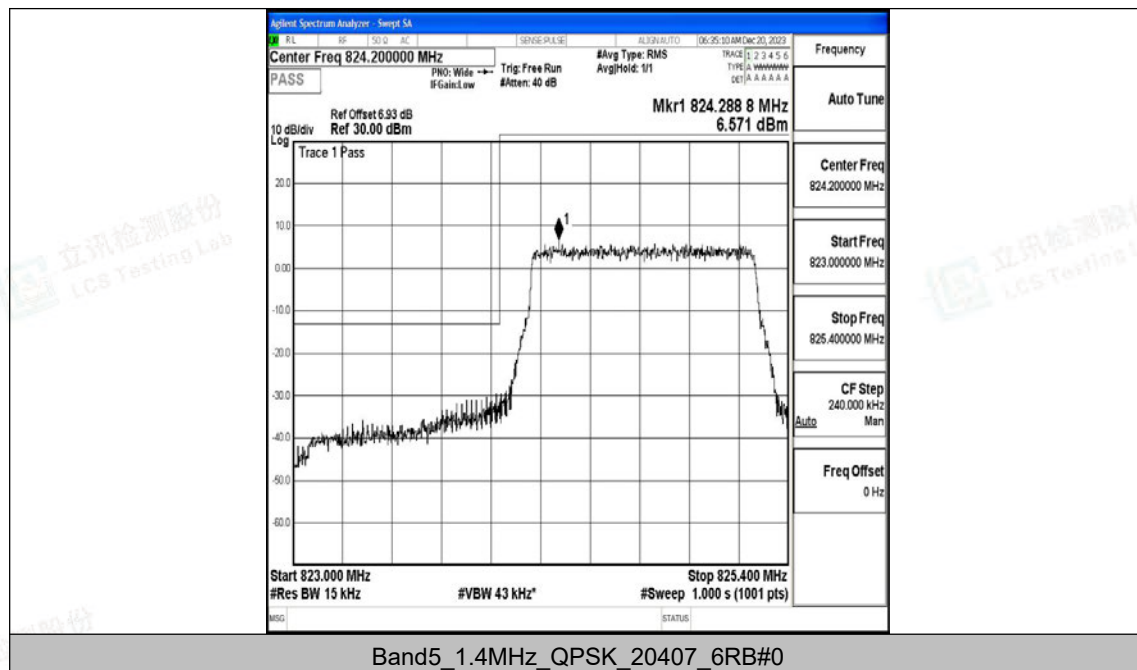


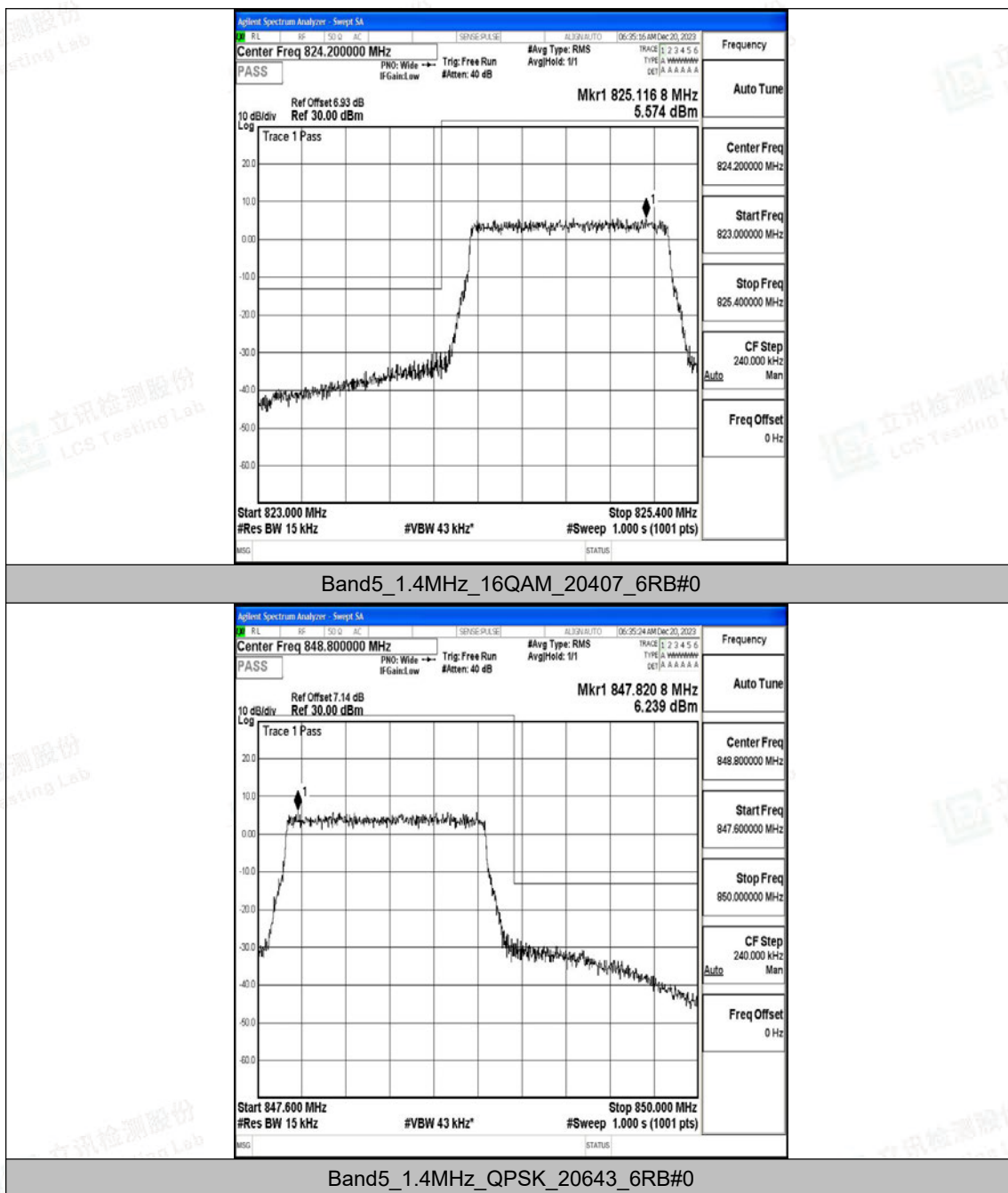
C.4 Band Edge

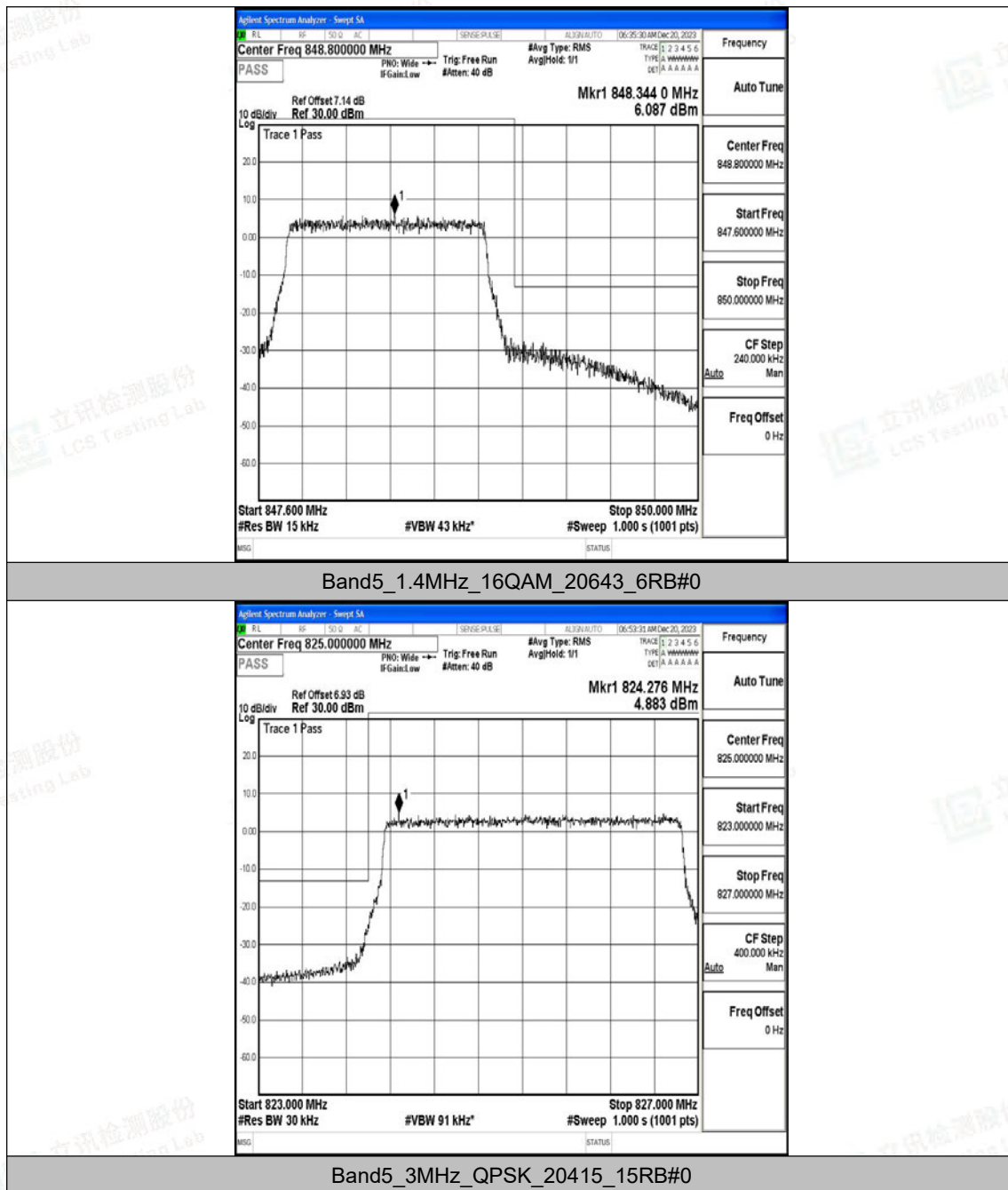
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	823.99	-29.53	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	823.97	-30.15	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	849.02	-27.90	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	849.05	-27.65	PASS
Band5	3MHz	QPSK	20415	15RB#0	824.00	-24.79	PASS
Band5	3MHz	16QAM	20415	15RB#0	824.00	-25.46	PASS
Band5	3MHz	QPSK	20635	15RB#0	849.01	-25.14	PASS
Band5	3MHz	16QAM	20635	15RB#0	849.00	-25.03	PASS
Band5	5MHz	QPSK	20425	25RB#0	823.97	-29.04	PASS
Band5	5MHz	16QAM	20425	25RB#0	824.00	-30.57	PASS
Band5	5MHz	QPSK	20625	25RB#0	849.00	-29.67	PASS
Band5	5MHz	16QAM	20625	25RB#0	849.02	-27.94	PASS
Band5	10MHz	QPSK	20450	50RB#0	823.99	-32.56	PASS
Band5	10MHz	16QAM	20450	50RB#0	823.97	-34.24	PASS
Band5	10MHz	QPSK	20600	50RB#0	849.03	-32.75	PASS
Band5	10MHz	16QAM	20600	50RB#0	849.03	-31.62	PASS

Test Graphs





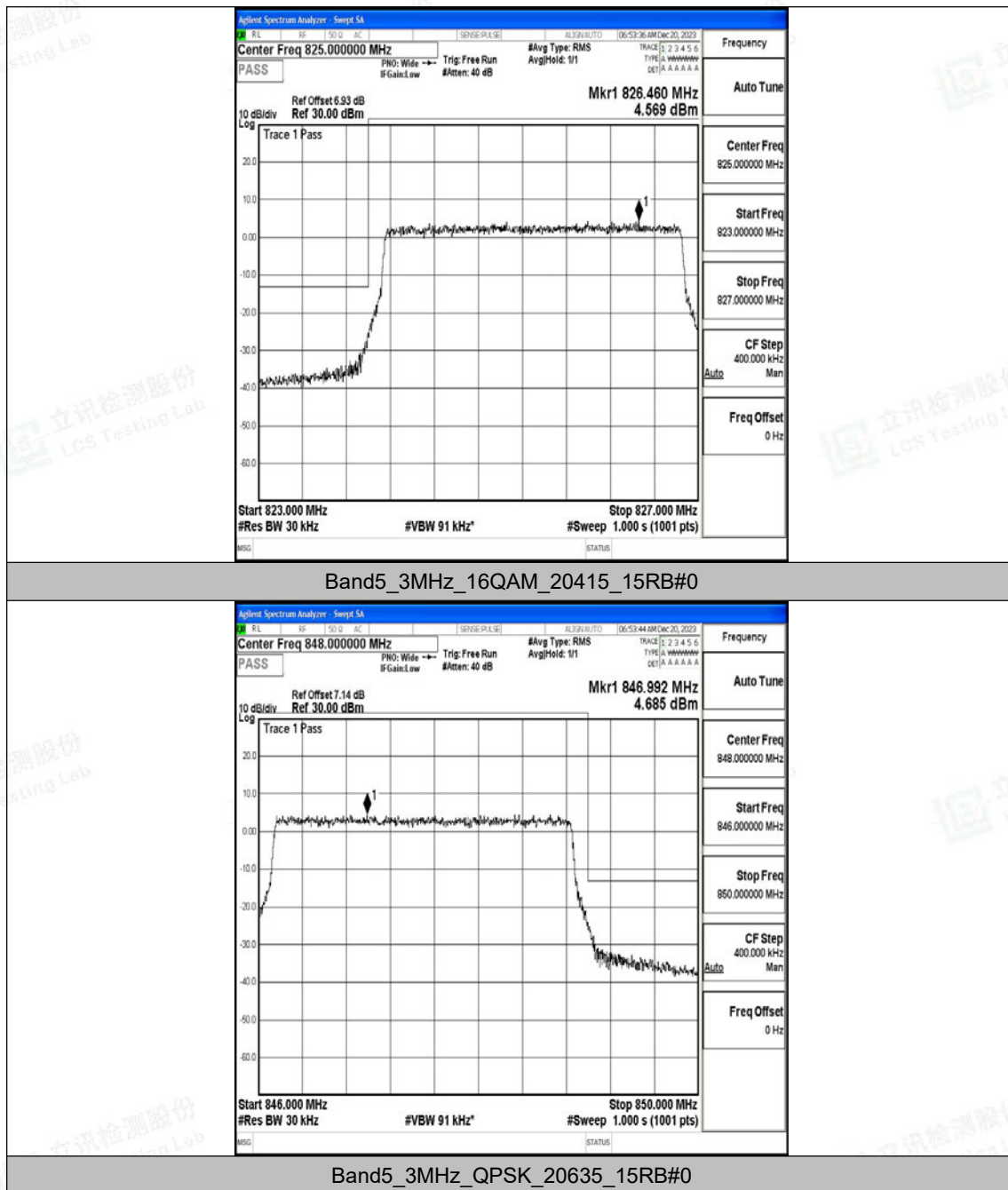


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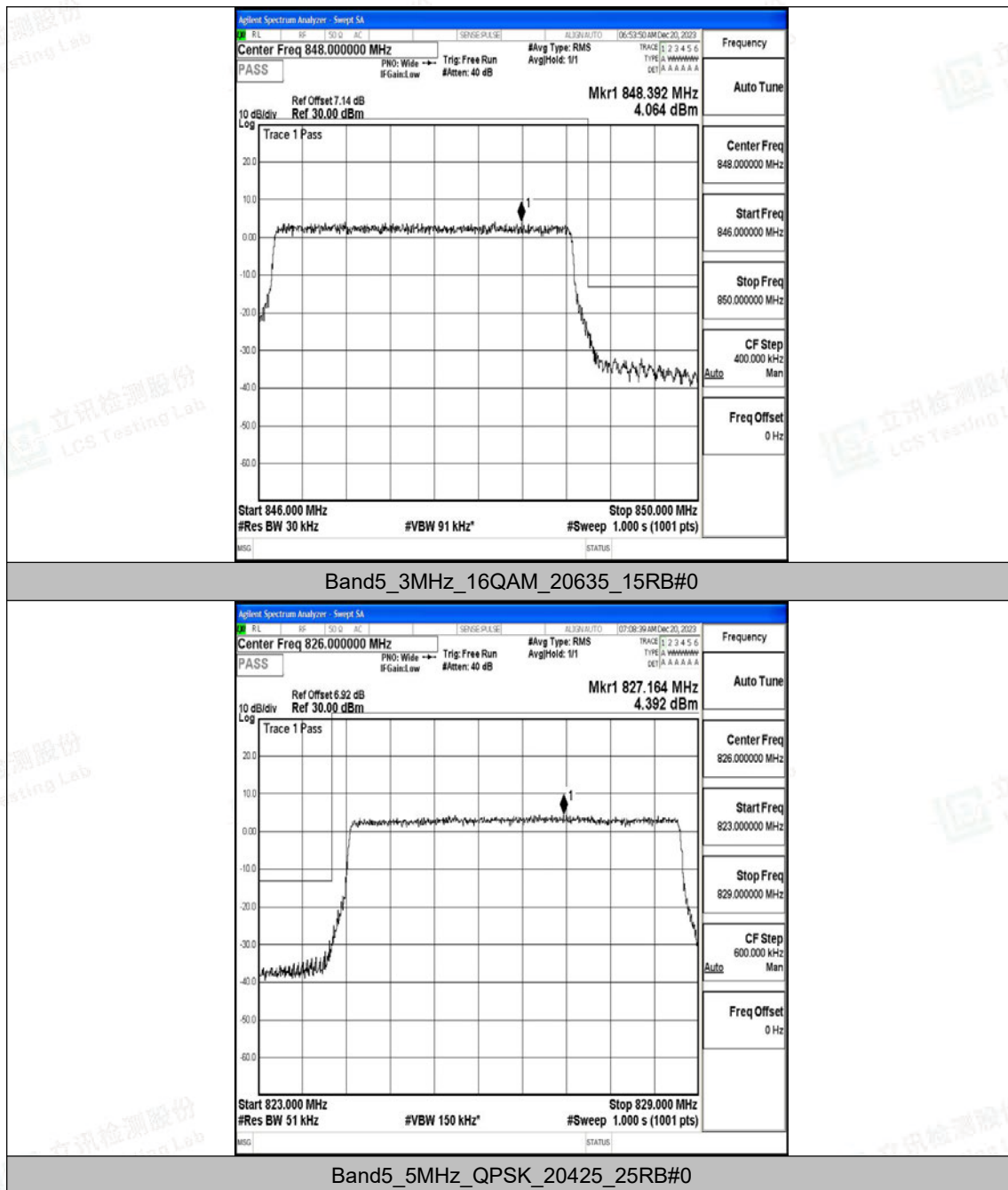


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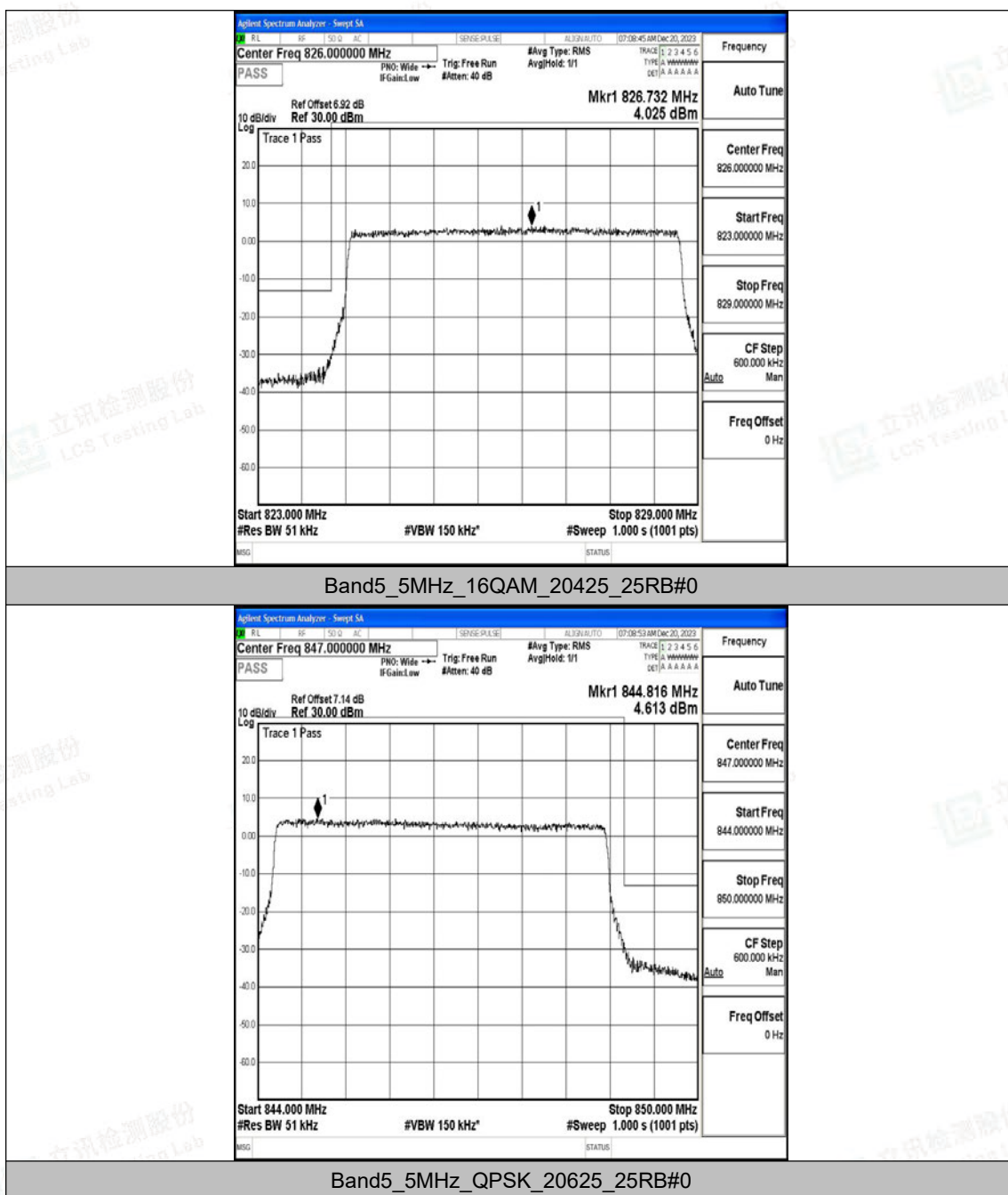


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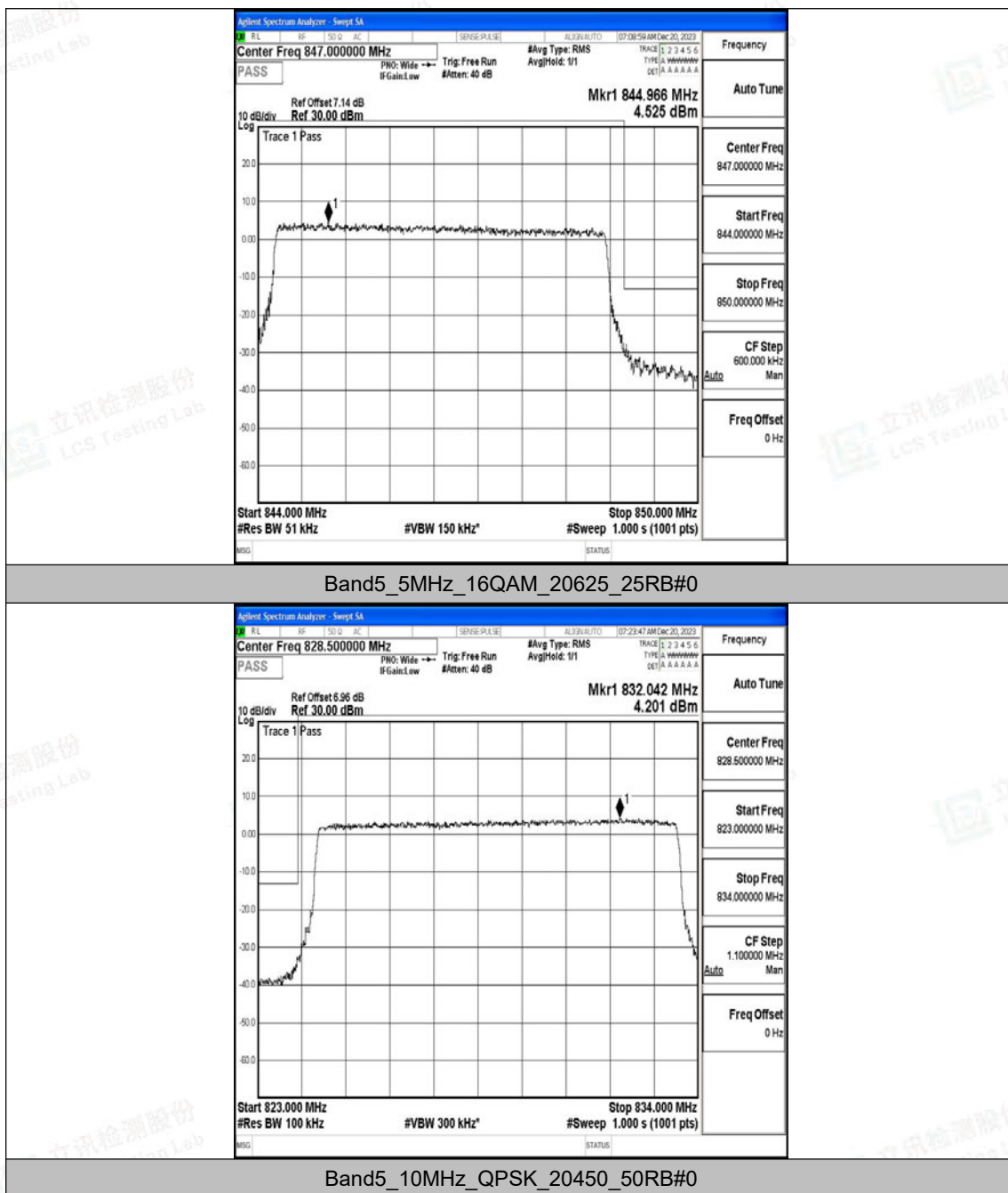


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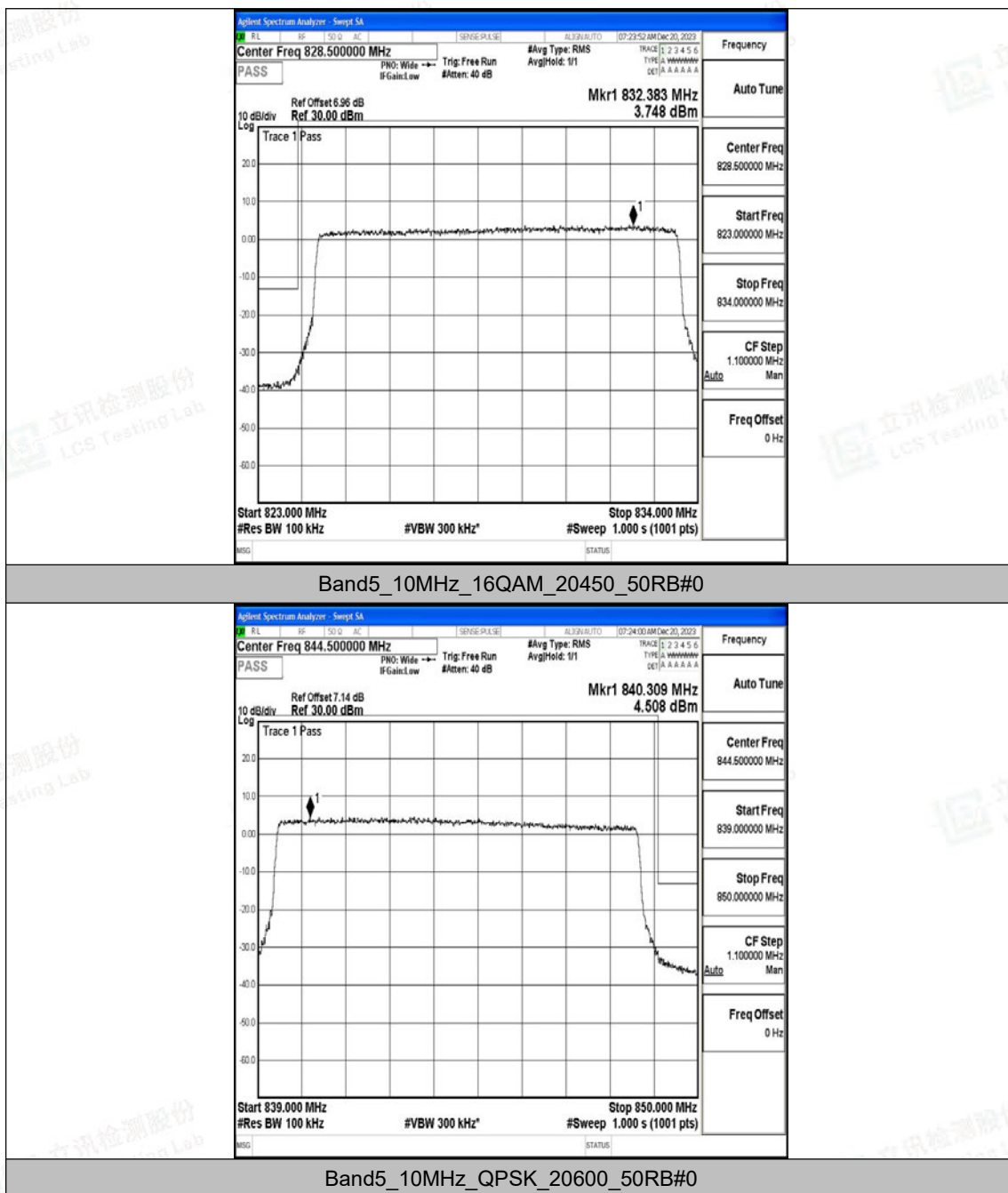


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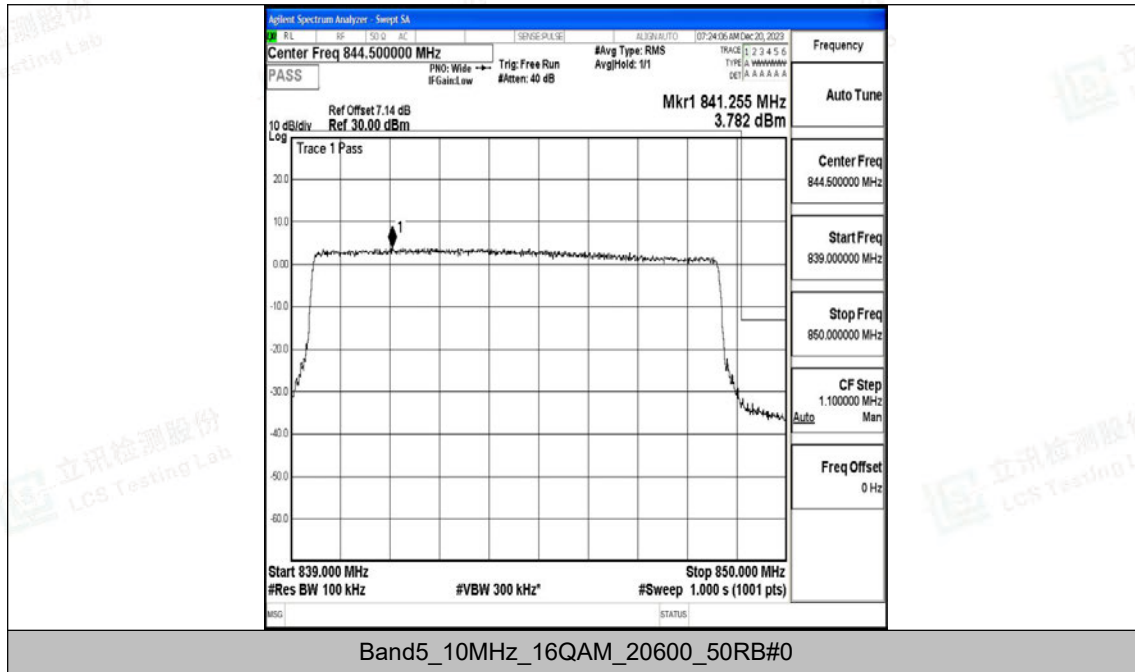


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C.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	0.009~0.15	-60.16	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	0.15~30	-51.90	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	30~1000	-43.78	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	1000~3000	-42.65	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	3000~10000	-44.22	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	0.009~0.15	-55.55	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	0.15~30	-52.24	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	30~1000	-41.59	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	1000~3000	-40.73	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	3000~10000	-44.06	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	0.009~0.15	-59.82	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	0.15~30	-52.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	30~1000	-44.55	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	1000~3000	-42.51	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3000~10000	-43.88	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	0.009~0.15	-56.52	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	0.15~30	-51.59	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	30~1000	-45.92	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	1000~3000	-41.04	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	3000~10000	-43.88	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	0.009~0.15	-57.55	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	0.15~30	-53.71	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	30~1000	-43.99	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	1000~3000	-40.66	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3000~10000	-43.85	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	0.009~0.15	-55.38	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	0.15~30	-52.31	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	30~1000	-47.60	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	1000~3000	-41.01	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3000~10000	-44.14	PASS
Band5	3MHz	QPSK	20415	1RB#0	0.009~0.15	-56.93	PASS
Band5	3MHz	QPSK	20415	1RB#0	0.15~30	-51.24	PASS
Band5	3MHz	QPSK	20415	1RB#0	30~1000	-48.71	PASS
Band5	3MHz	QPSK	20415	1RB#0	1000~3000	-42.41	PASS
Band5	3MHz	QPSK	20415	1RB#0	3000~10000	-44.14	PASS



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Band5	3MHz	16QAM	20415	1RB#0	0.009~0.15	-60.51	PASS
Band5	3MHz	16QAM	20415	1RB#0	0.15~30	-53.29	PASS
Band5	3MHz	16QAM	20415	1RB#0	30~1000	-48.32	PASS
Band5	3MHz	16QAM	20415	1RB#0	1000~3000	-40.94	PASS
Band5	3MHz	16QAM	20415	1RB#0	3000~10000	-43.83	PASS
Band5	3MHz	QPSK	20525	1RB#0	0.009~0.15	-58.06	PASS
Band5	3MHz	QPSK	20525	1RB#0	0.15~30	-51.71	PASS
Band5	3MHz	QPSK	20525	1RB#0	30~1000	-50.00	PASS
Band5	3MHz	QPSK	20525	1RB#0	1000~3000	-42.05	PASS
Band5	3MHz	QPSK	20525	1RB#0	3000~10000	-44.04	PASS
Band5	3MHz	16QAM	20525	1RB#0	0.009~0.15	-58.53	PASS
Band5	3MHz	16QAM	20525	1RB#0	0.15~30	-54.66	PASS
Band5	3MHz	16QAM	20525	1RB#0	30~1000	-50.62	PASS
Band5	3MHz	16QAM	20525	1RB#0	1000~3000	-41.36	PASS
Band5	3MHz	16QAM	20525	1RB#0	3000~10000	-43.95	PASS
Band5	3MHz	QPSK	20635	1RB#0	0.009~0.15	-56.04	PASS
Band5	3MHz	QPSK	20635	1RB#0	0.15~30	-52.99	PASS
Band5	3MHz	QPSK	20635	1RB#0	30~1000	-48.75	PASS
Band5	3MHz	QPSK	20635	1RB#0	1000~3000	-41.95	PASS
Band5	3MHz	QPSK	20635	1RB#0	3000~10000	-43.98	PASS
Band5	3MHz	16QAM	20635	1RB#0	0.009~0.15	-57.29	PASS
Band5	3MHz	16QAM	20635	1RB#0	0.15~30	-51.22	PASS
Band5	3MHz	16QAM	20635	1RB#0	30~1000	-47.95	PASS
Band5	3MHz	16QAM	20635	1RB#0	1000~3000	-40.80	PASS
Band5	3MHz	16QAM	20635	1RB#0	3000~10000	-43.88	PASS
Band5	5MHz	QPSK	20425	1RB#0	0.009~0.15	-57.04	PASS
Band5	5MHz	QPSK	20425	1RB#0	0.15~30	-51.58	PASS
Band5	5MHz	QPSK	20425	1RB#0	30~1000	-58.91	PASS
Band5	5MHz	QPSK	20425	1RB#0	1000~3000	-42.54	PASS
Band5	5MHz	QPSK	20425	1RB#0	3000~10000	-44.07	PASS
Band5	5MHz	16QAM	20425	1RB#0	0.009~0.15	-57.41	PASS
Band5	5MHz	16QAM	20425	1RB#0	0.15~30	-52.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	30~1000	-58.09	PASS
Band5	5MHz	16QAM	20425	1RB#0	1000~3000	-41.09	PASS
Band5	5MHz	16QAM	20425	1RB#0	3000~10000	-44.24	PASS
Band5	5MHz	QPSK	20525	1RB#0	0.009~0.15	-58.92	PASS
Band5	5MHz	QPSK	20525	1RB#0	0.15~30	-51.55	PASS
Band5	5MHz	QPSK	20525	1RB#0	30~1000	-59.46	PASS
Band5	5MHz	QPSK	20525	1RB#0	1000~3000	-42.91	PASS
Band5	5MHz	QPSK	20525	1RB#0	3000~10000	-44.31	PASS



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Band5	5MHz	16QAM	20525	1RB#0	0.009~0.15	-56.10	PASS
Band5	5MHz	16QAM	20525	1RB#0	0.15~30	-52.02	PASS
Band5	5MHz	16QAM	20525	1RB#0	30~1000	-59.01	PASS
Band5	5MHz	16QAM	20525	1RB#0	1000~3000	-43.61	PASS
Band5	5MHz	16QAM	20525	1RB#0	3000~10000	-44.50	PASS
Band5	5MHz	QPSK	20625	1RB#0	0.009~0.15	-58.16	PASS
Band5	5MHz	QPSK	20625	1RB#0	0.15~30	-52.95	PASS
Band5	5MHz	QPSK	20625	1RB#0	30~1000	-58.40	PASS
Band5	5MHz	QPSK	20625	1RB#0	1000~3000	-43.31	PASS
Band5	5MHz	QPSK	20625	1RB#0	3000~10000	-44.28	PASS
Band5	5MHz	16QAM	20625	1RB#0	0.009~0.15	-57.86	PASS
Band5	5MHz	16QAM	20625	1RB#0	0.15~30	-54.05	PASS
Band5	5MHz	16QAM	20625	1RB#0	30~1000	-56.74	PASS
Band5	5MHz	16QAM	20625	1RB#0	1000~3000	-43.47	PASS
Band5	5MHz	16QAM	20625	1RB#0	3000~10000	-44.13	PASS
Band5	10MHz	QPSK	20450	1RB#0	0.009~0.15	-55.60	PASS
Band5	10MHz	QPSK	20450	1RB#0	0.15~30	-53.05	PASS
Band5	10MHz	QPSK	20450	1RB#0	30~1000	-62.06	PASS
Band5	10MHz	QPSK	20450	1RB#0	1000~3000	-42.39	PASS
Band5	10MHz	QPSK	20450	1RB#0	3000~10000	-43.68	PASS
Band5	10MHz	16QAM	20450	1RB#0	0.009~0.15	-56.80	PASS
Band5	10MHz	16QAM	20450	1RB#0	0.15~30	-52.90	PASS
Band5	10MHz	16QAM	20450	1RB#0	30~1000	-62.17	PASS
Band5	10MHz	16QAM	20450	1RB#0	1000~3000	-40.01	PASS
Band5	10MHz	16QAM	20450	1RB#0	3000~10000	-44.33	PASS
Band5	10MHz	QPSK	20525	1RB#0	0.009~0.15	-57.57	PASS
Band5	10MHz	QPSK	20525	1RB#0	0.15~30	-52.73	PASS
Band5	10MHz	QPSK	20525	1RB#0	30~1000	-61.60	PASS
Band5	10MHz	QPSK	20525	1RB#0	1000~3000	-42.99	PASS
Band5	10MHz	QPSK	20525	1RB#0	3000~10000	-44.43	PASS
Band5	10MHz	16QAM	20525	1RB#0	0.009~0.15	-56.36	PASS
Band5	10MHz	16QAM	20525	1RB#0	0.15~30	-53.36	PASS
Band5	10MHz	16QAM	20525	1RB#0	30~1000	-62.20	PASS
Band5	10MHz	16QAM	20525	1RB#0	1000~3000	-43.15	PASS
Band5	10MHz	16QAM	20525	1RB#0	3000~10000	-44.05	PASS
Band5	10MHz	QPSK	20600	1RB#0	0.009~0.15	-56.01	PASS
Band5	10MHz	QPSK	20600	1RB#0	0.15~30	-51.41	PASS
Band5	10MHz	QPSK	20600	1RB#0	30~1000	-62.20	PASS
Band5	10MHz	QPSK	20600	1RB#0	1000~3000	-44.71	PASS
Band5	10MHz	QPSK	20600	1RB#0	3000~10000	-43.60	PASS



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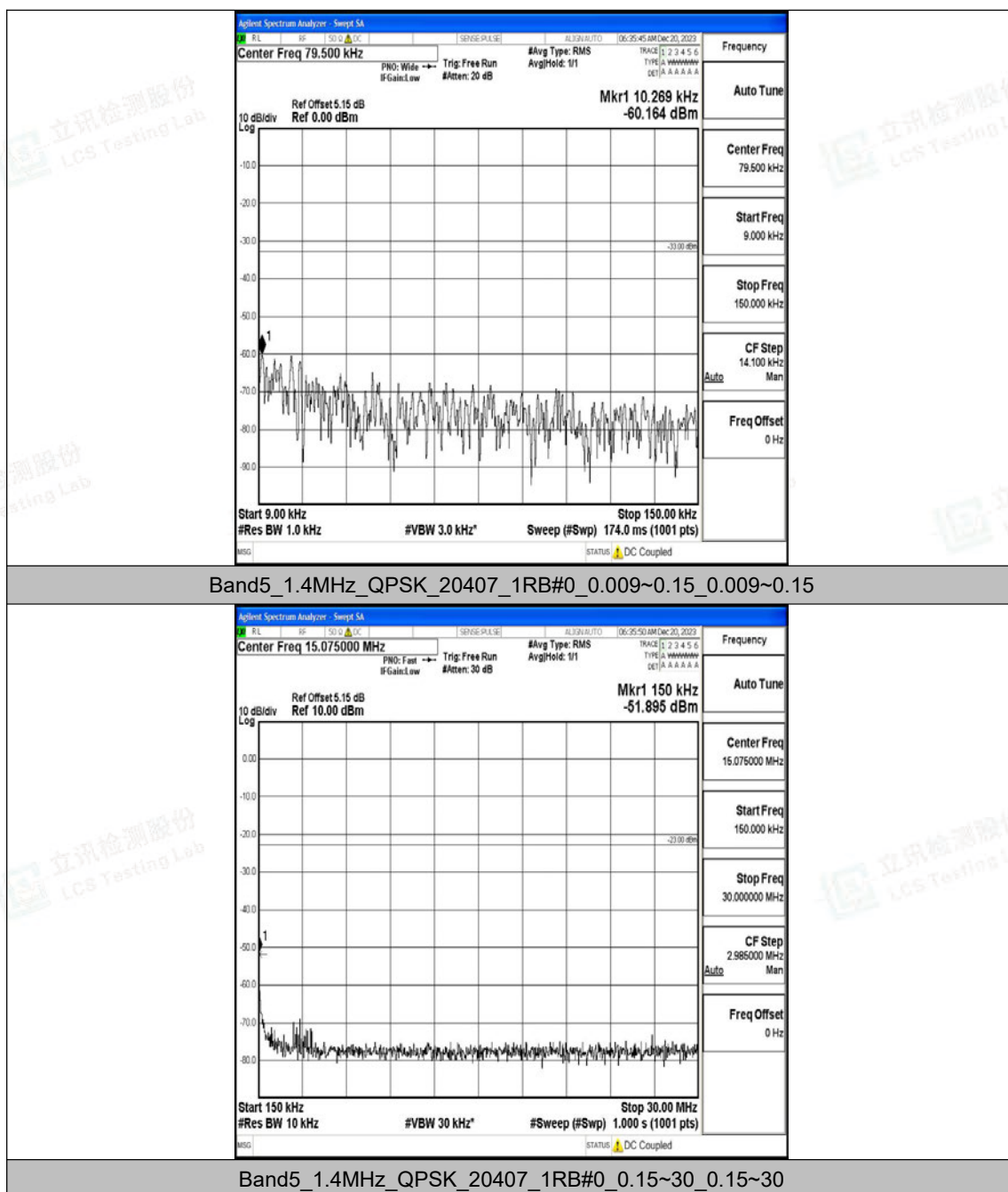
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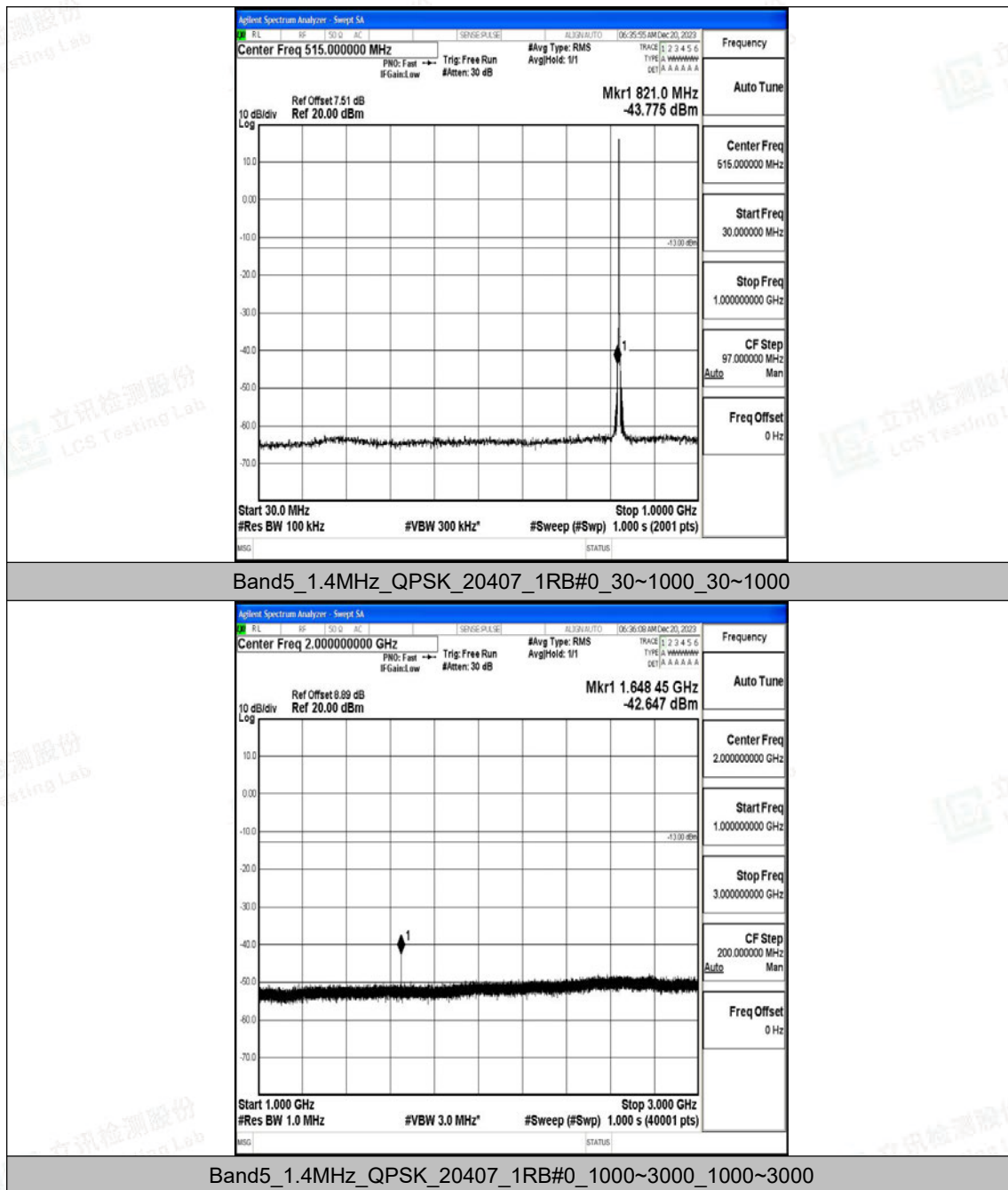
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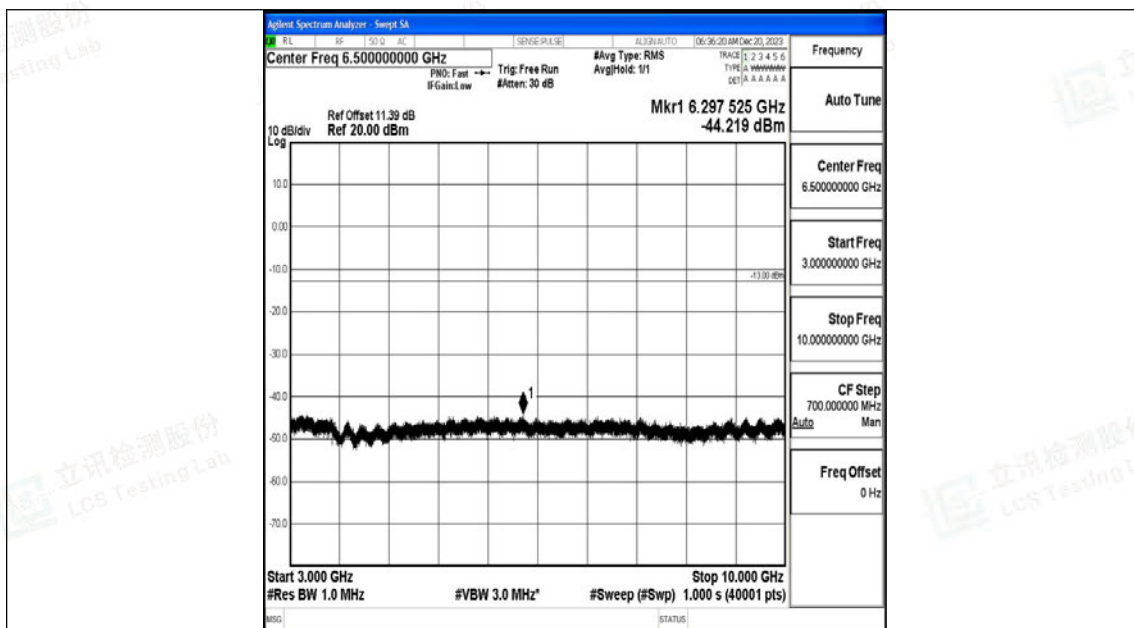


Band5	10MHz	16QAM	20600	1RB#0	0.009~0.15	-58.52	PASS
Band5	10MHz	16QAM	20600	1RB#0	0.15~30	-53.80	PASS
Band5	10MHz	16QAM	20600	1RB#0	30~1000	-62.01	PASS
Band5	10MHz	16QAM	20600	1RB#0	1000~3000	-44.39	PASS
Band5	10MHz	16QAM	20600	1RB#0	3000~10000	-44.07	PASS

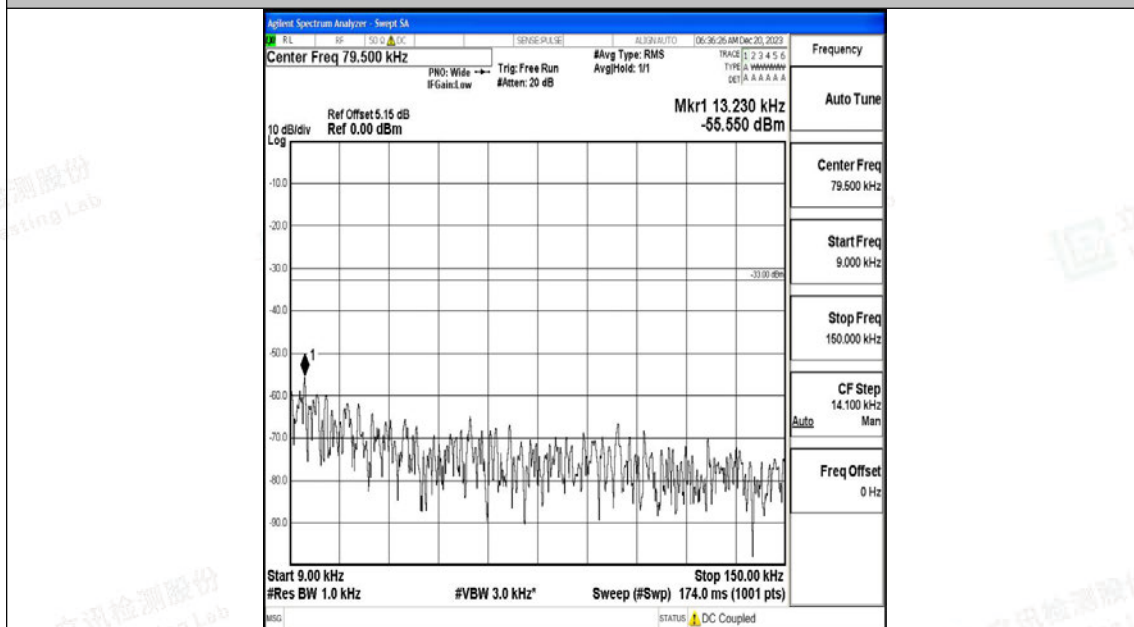
Test Graphs





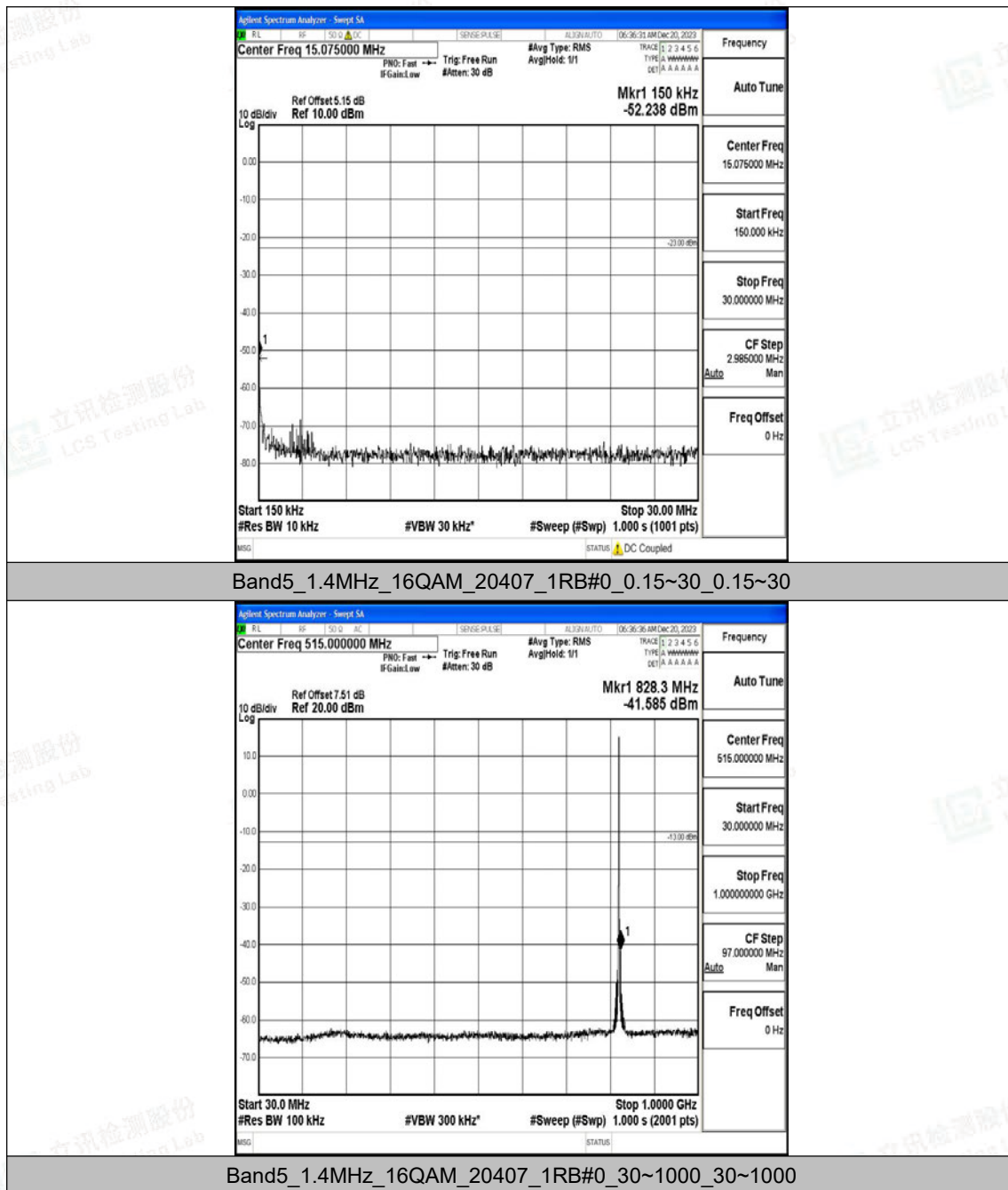


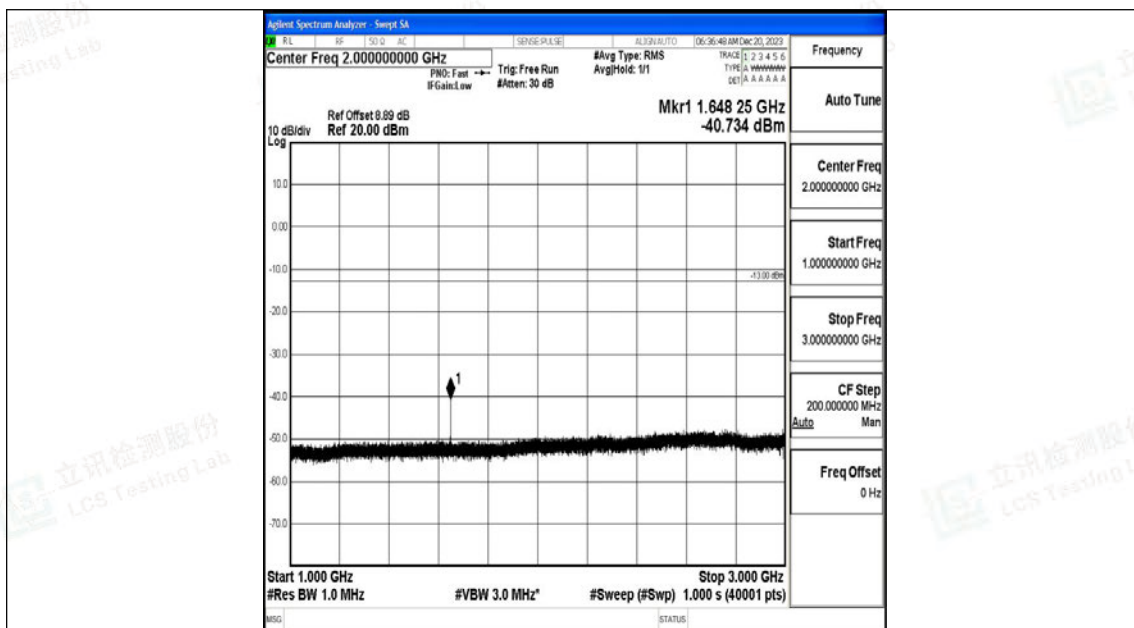
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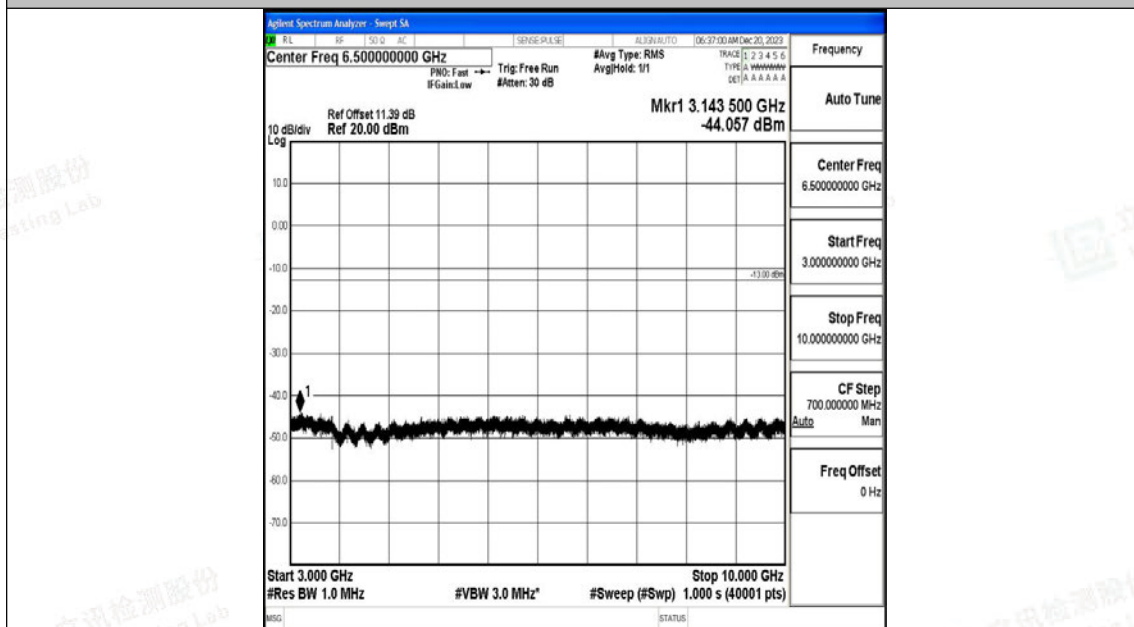
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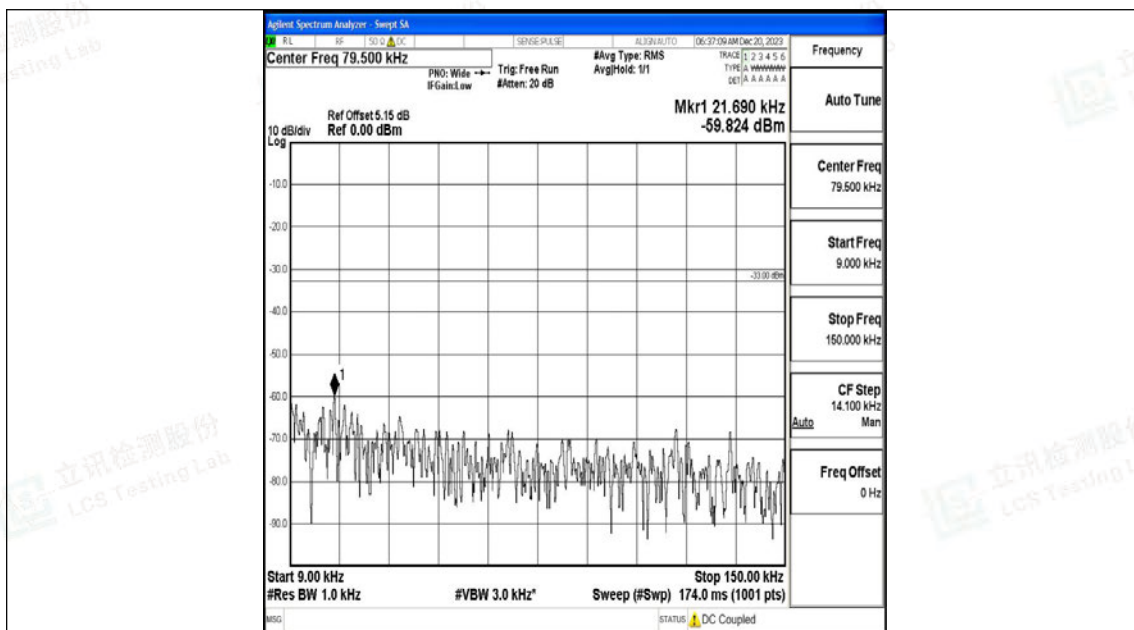


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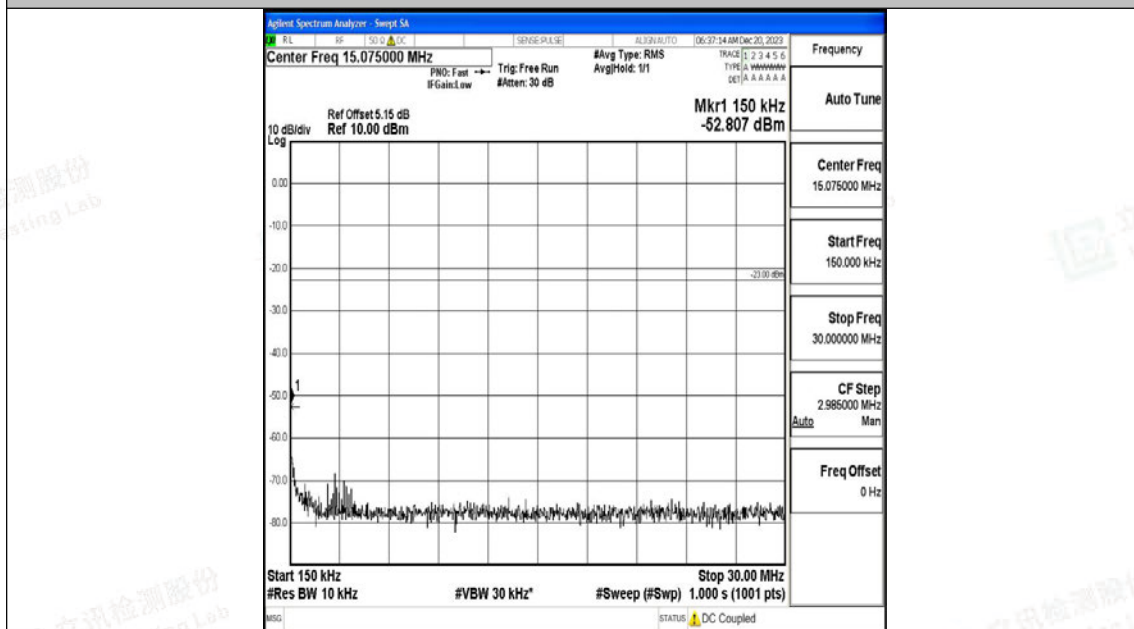


Band5_1.4MHz_16QAM_20407_1RB#0_3000~10000_3000~10000





Band5_1.4MHz_QPSK_20525_1RB#0_0.009~0.15_0.009~0.15



Band5_1.4MHz_QPSK_20525_1RB#0_0.15~30_0.15~30

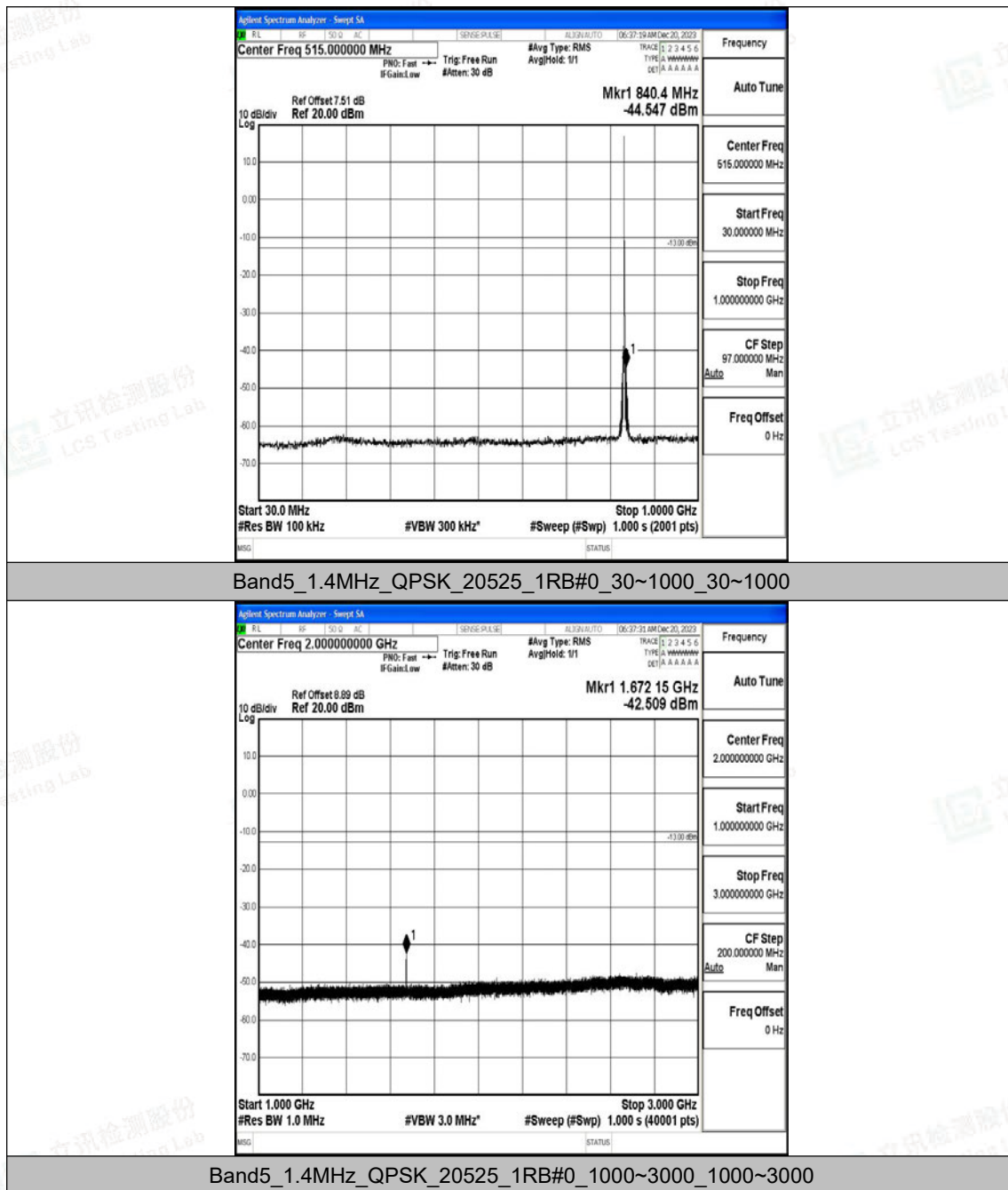


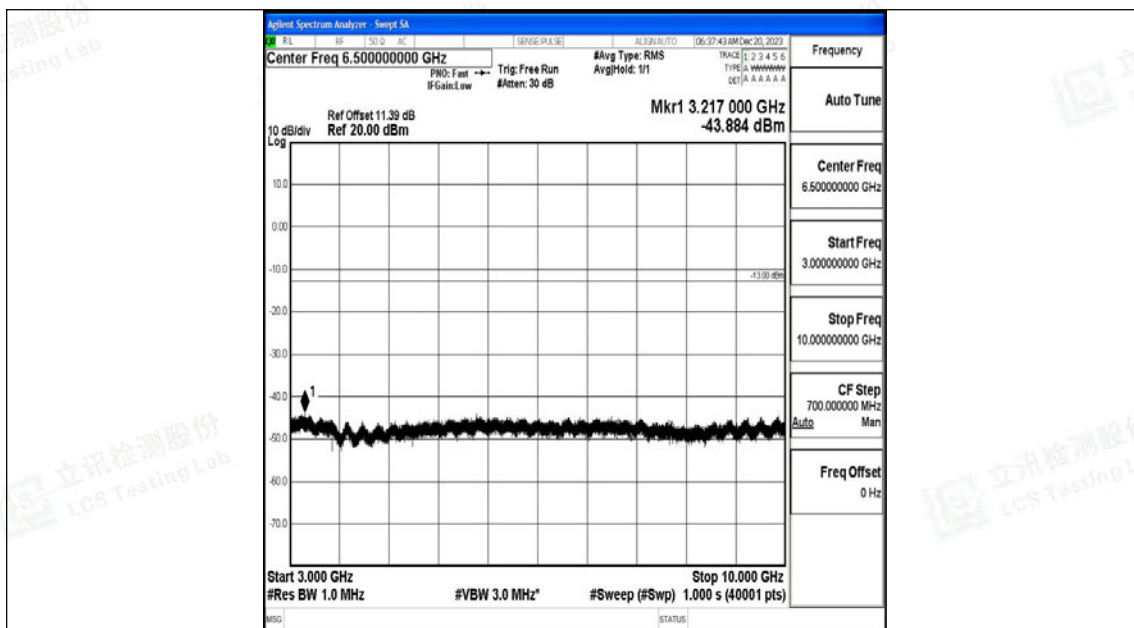
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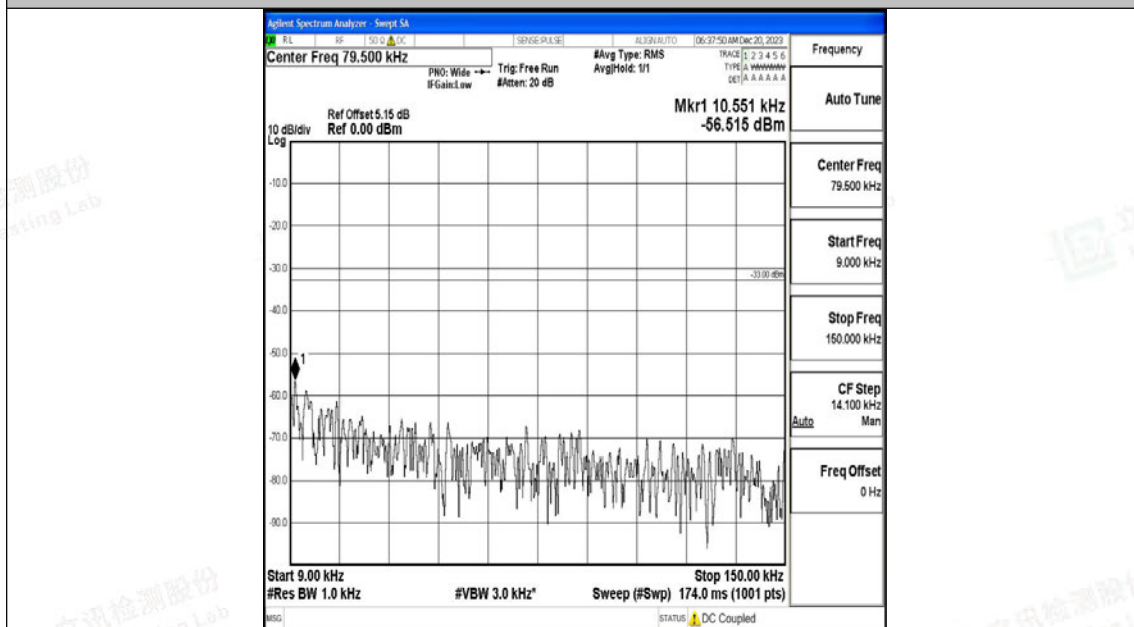
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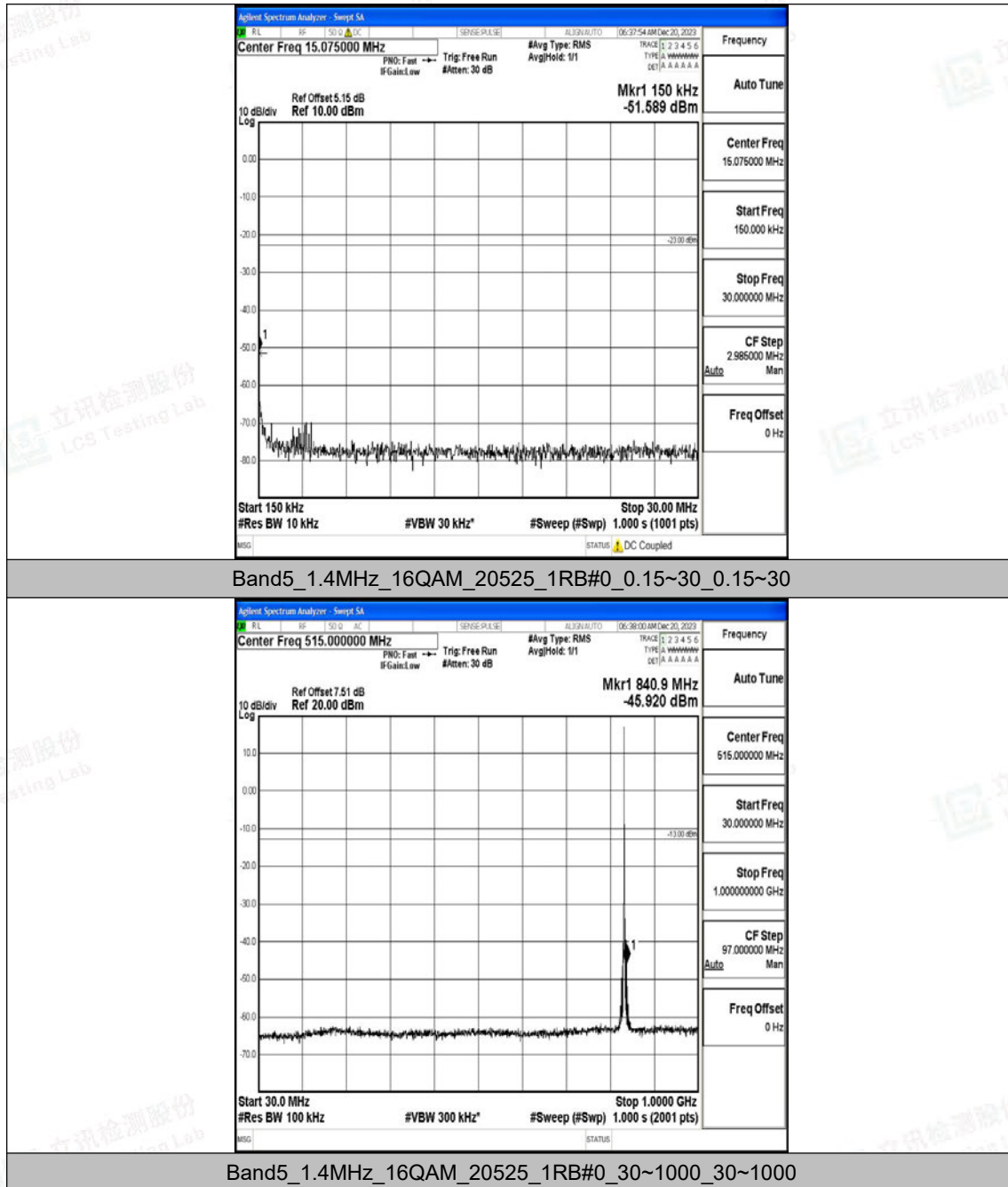


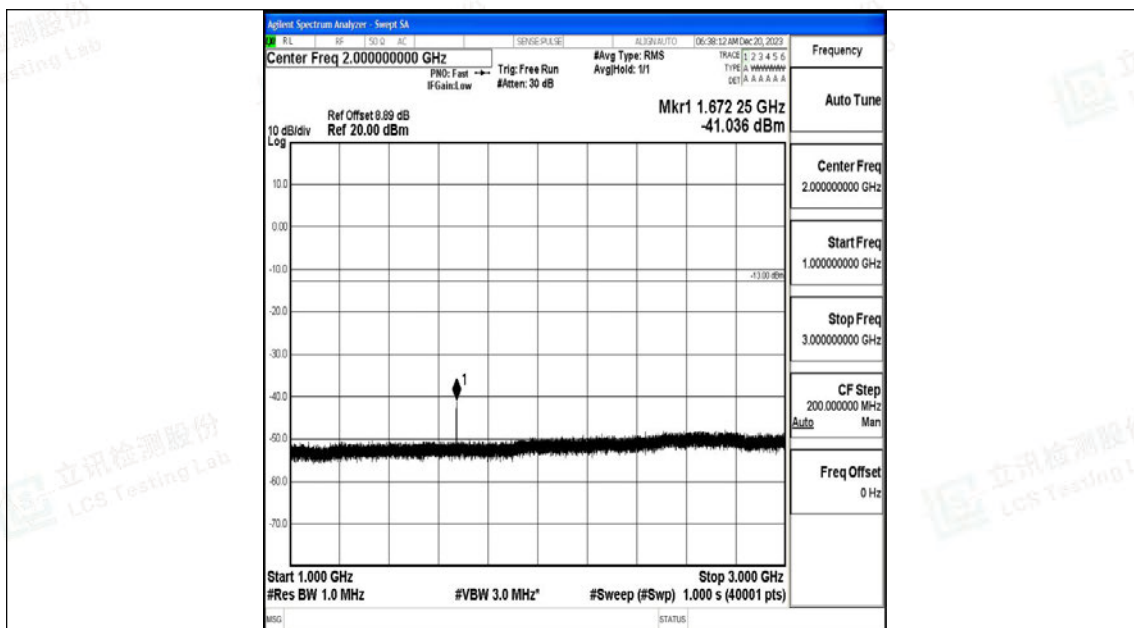
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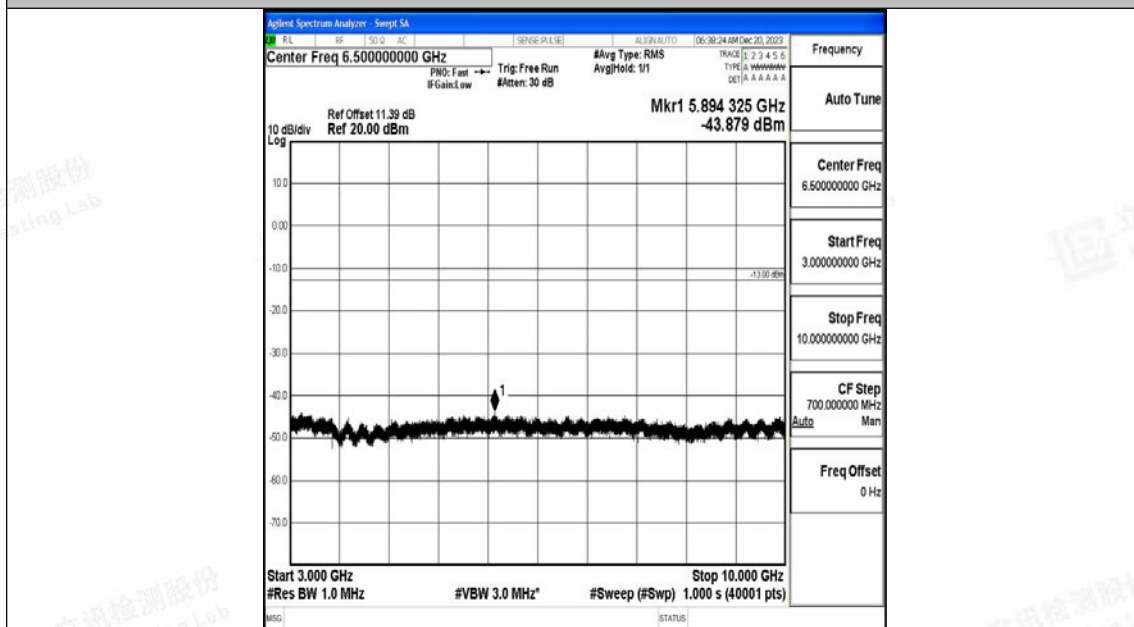
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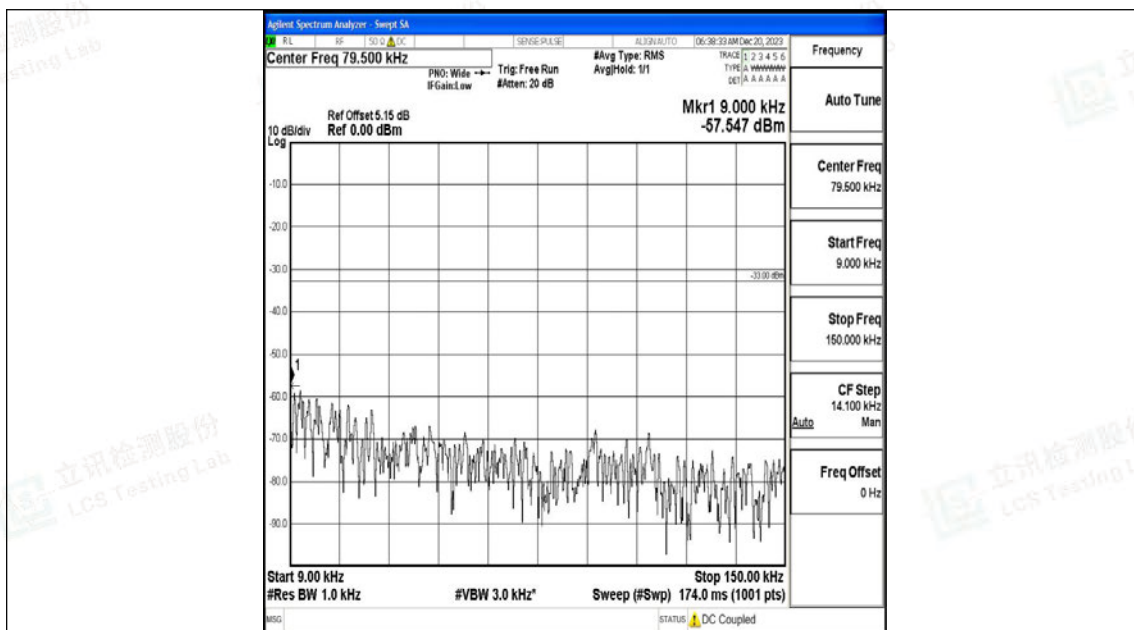


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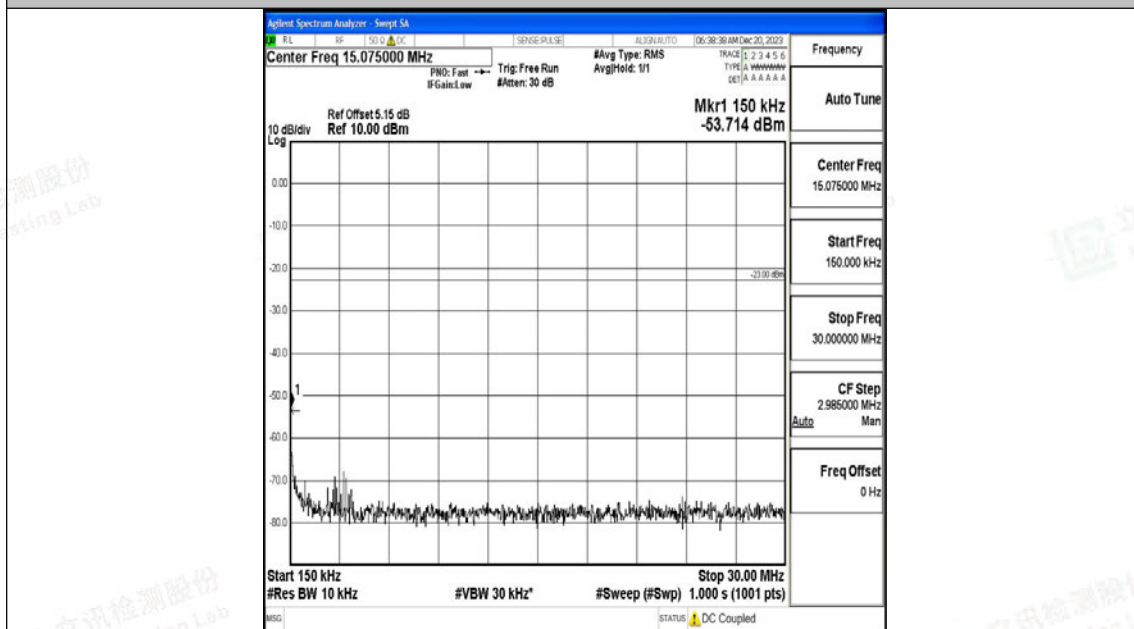


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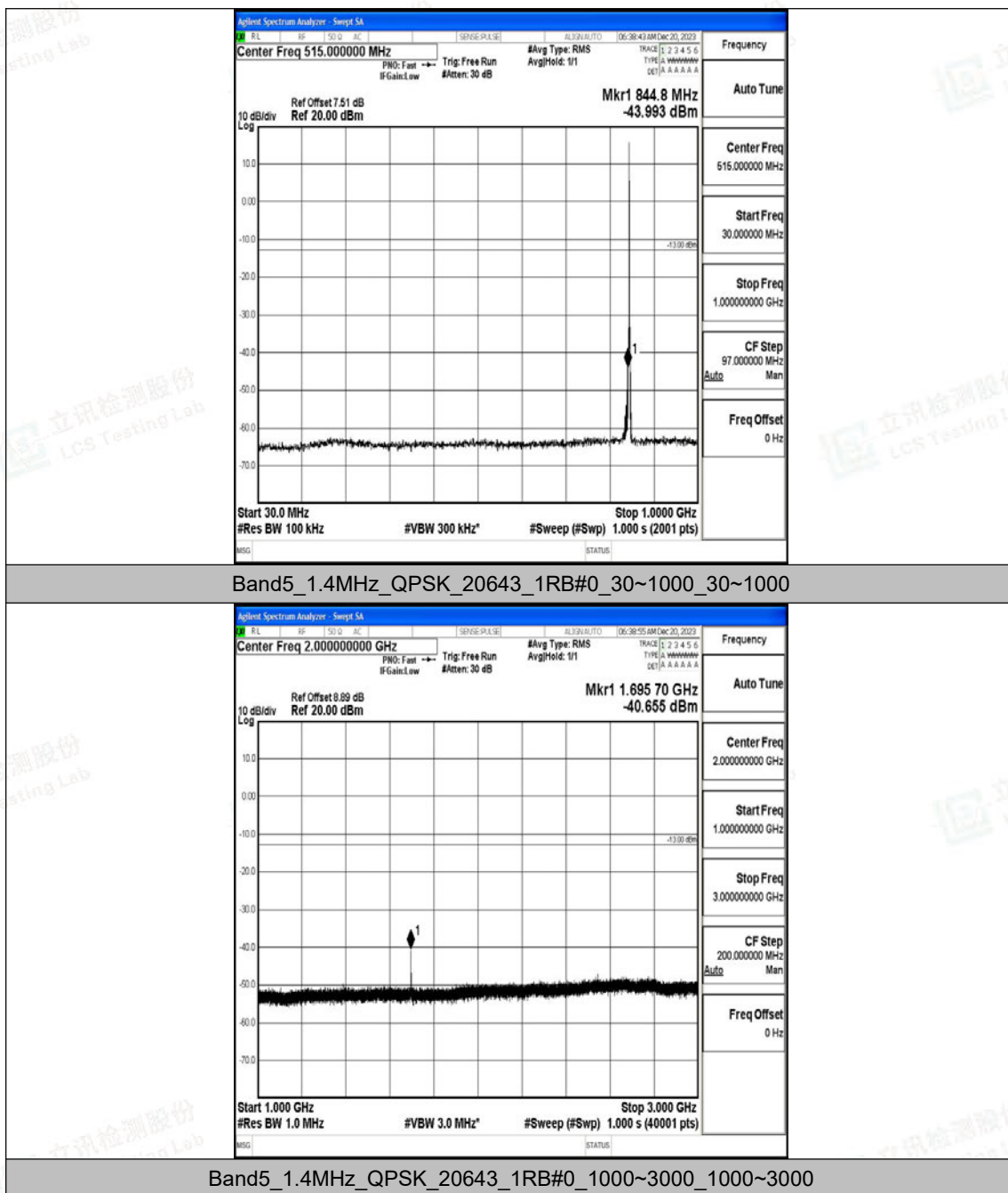


Band5_1.4MHz_QPSK_20643_1RB#0_0.009~0.15_0.009~0.15



Band5_1.4MHz_QPSK_20643_1RB#0_0.15~30_0.15~30



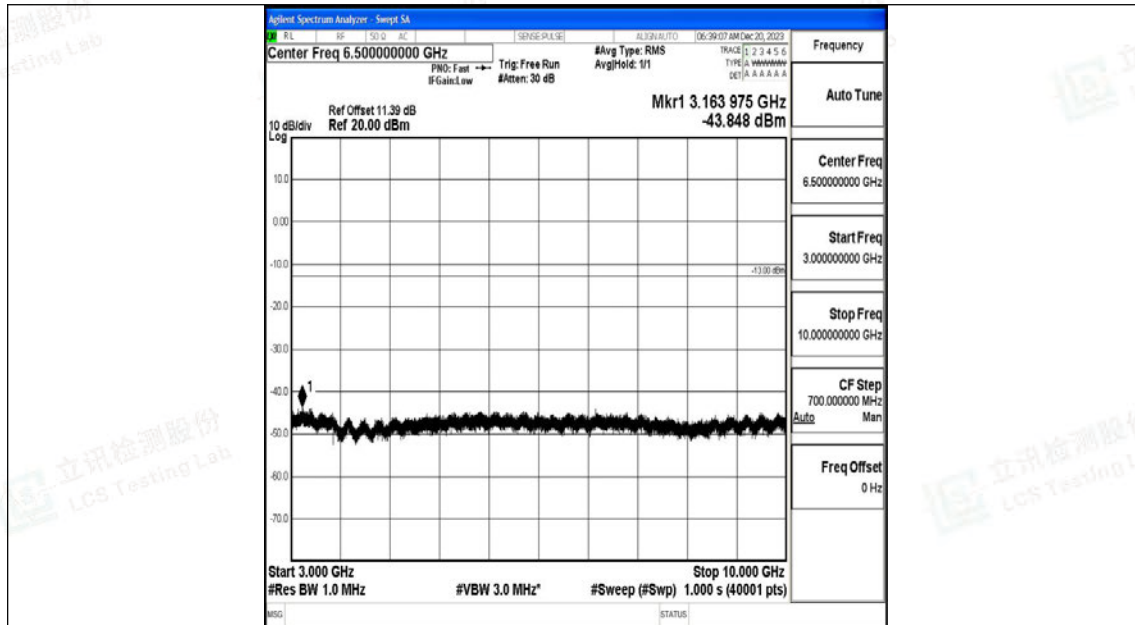


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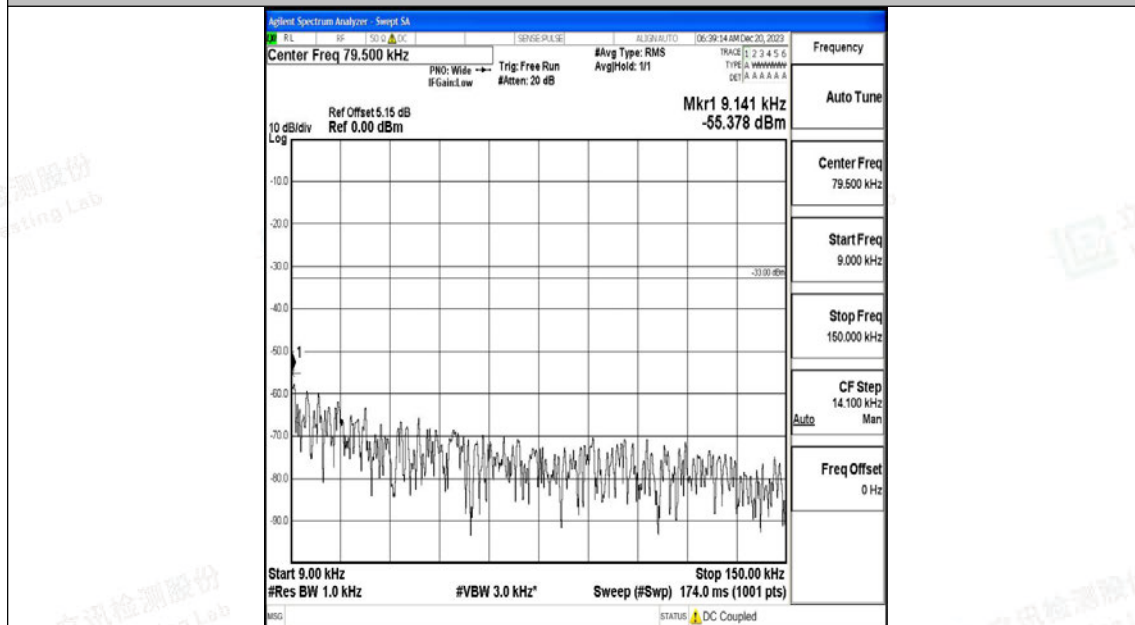
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Band5_1.4MHz_QPSK_20643_1RB#0_3000~10000_3000~10000



Band5_1.4MHz_16QAM_20643_1RB#0_0.009~0.15_0.009~0.15

