



Appendix M: Test Data for E-UTRA Band 13

Product Name: Mobile phone

Test Model: F31tx

Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.34	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.46	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.40	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.45	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.42	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.44	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.37	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.54	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.14	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.42	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.25	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.39	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.17	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.52	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.07	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.84	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.02	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.80	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.98	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.72	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.26	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.52	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.27	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.52	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.18	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.45	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.21	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.54	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.85	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.67	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.73	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.49	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.50	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.21	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.25	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.43	PASS



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Band13	5MHz	QPSK	23255	12RB#6	23.11	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.43	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.99	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.24	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.10	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.37	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.60	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.75	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.38	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.62	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.12	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.36	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.58	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.58	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.82	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.49	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.63	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.57	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.81	PASS



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

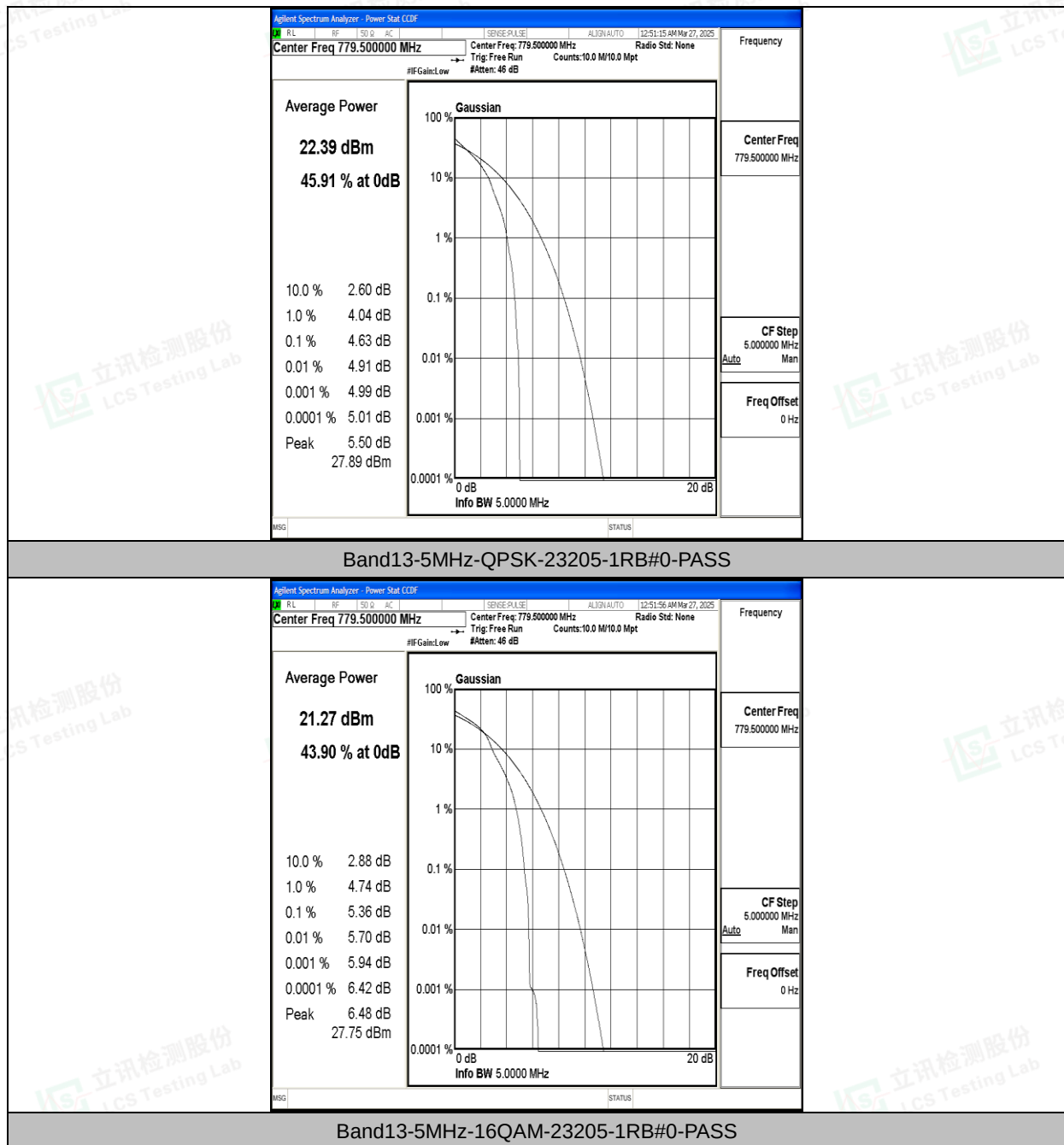
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.63	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.36	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.16	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.81	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.43	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.54	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.21	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.74	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.35	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.55	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.20	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.68	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.26	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.55	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.19	13	PASS





Test Graphs

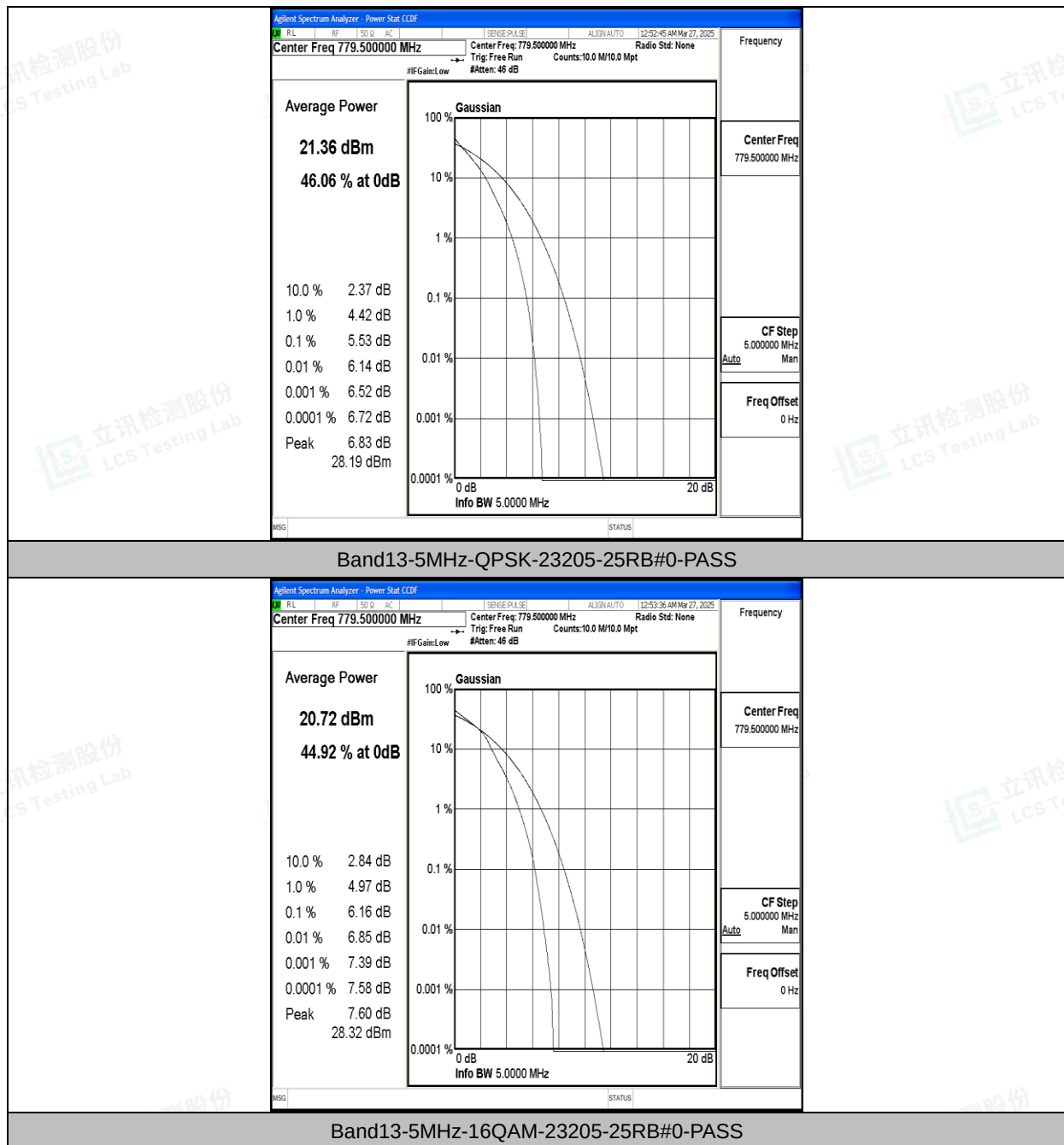


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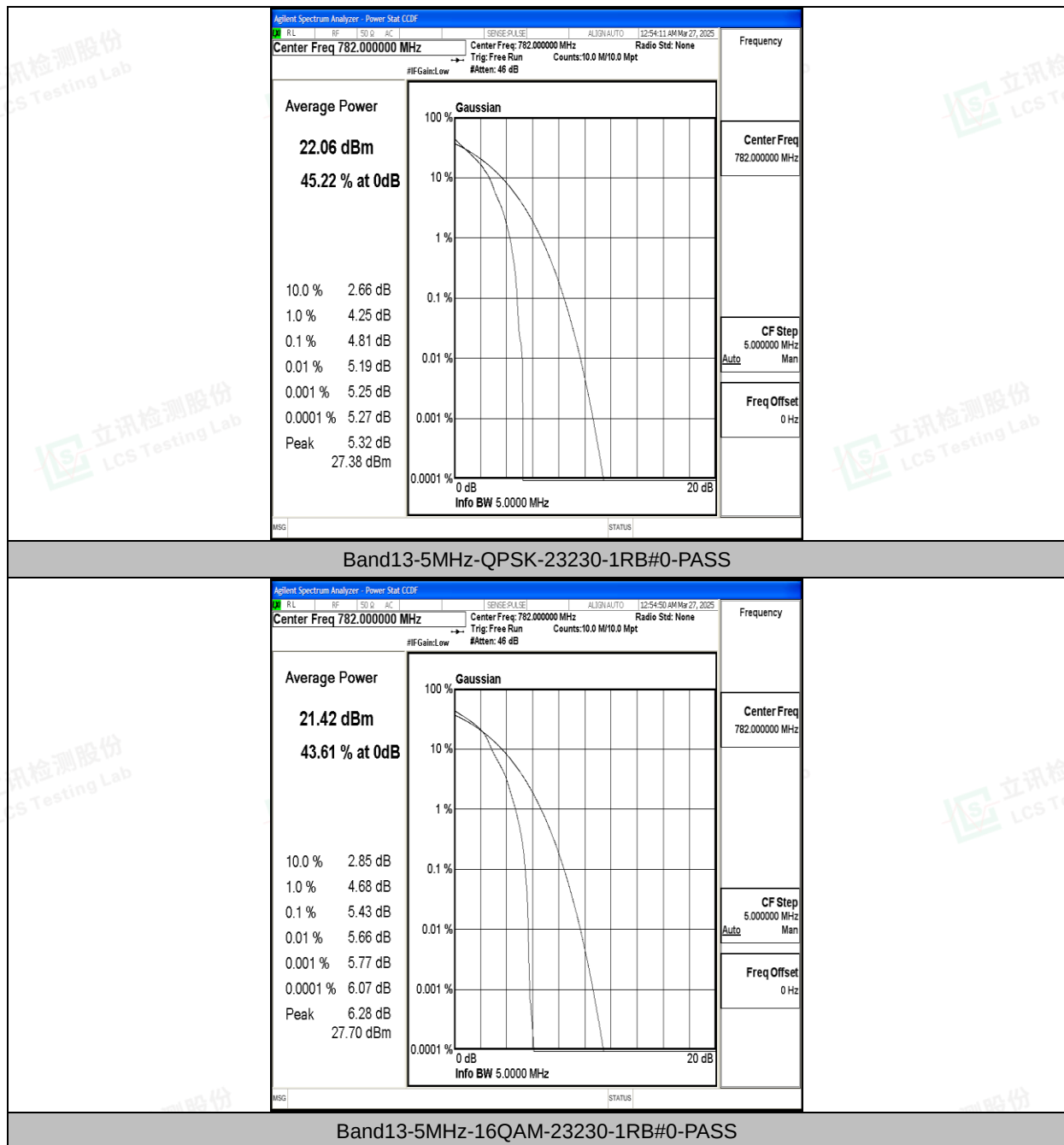


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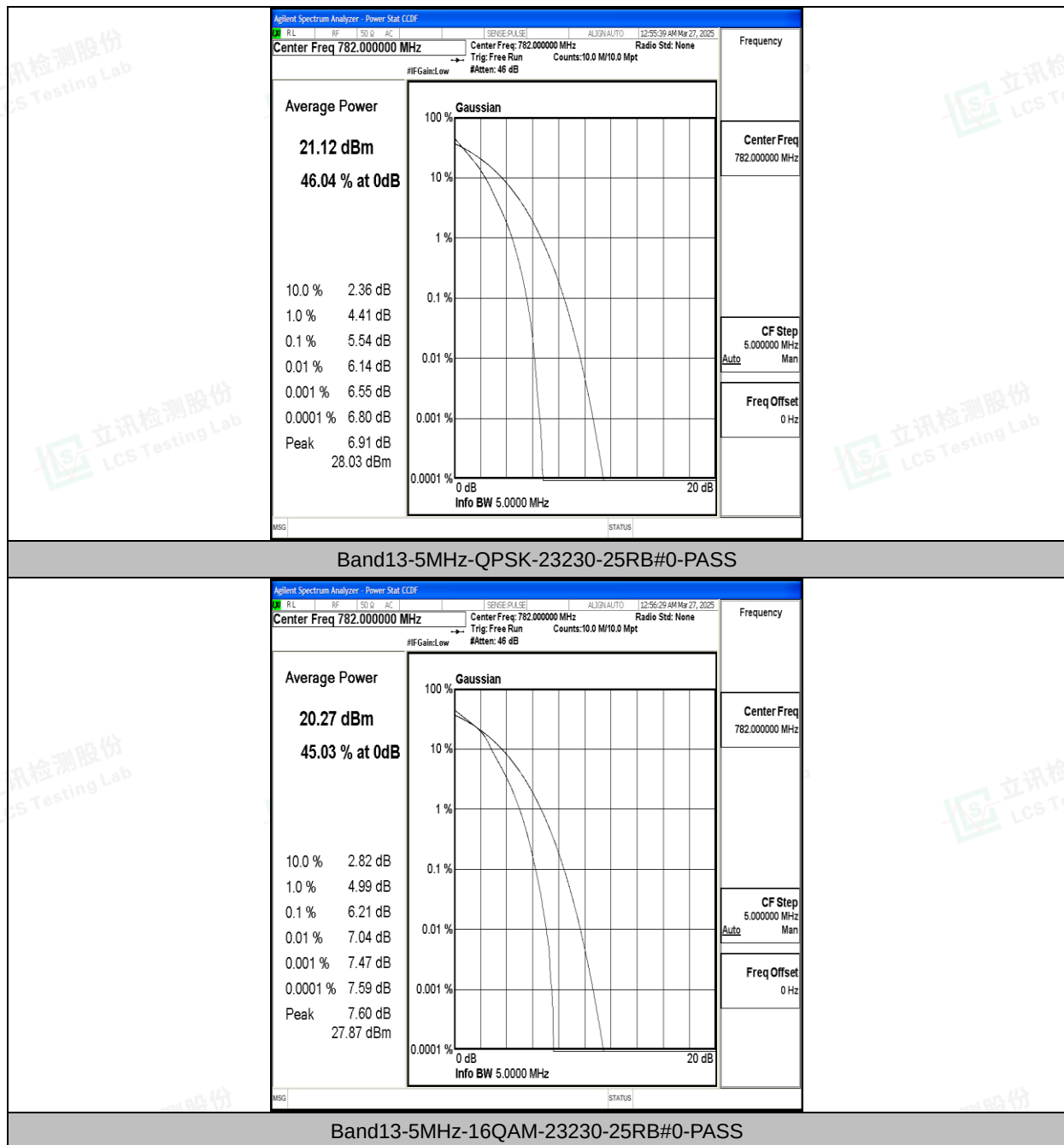


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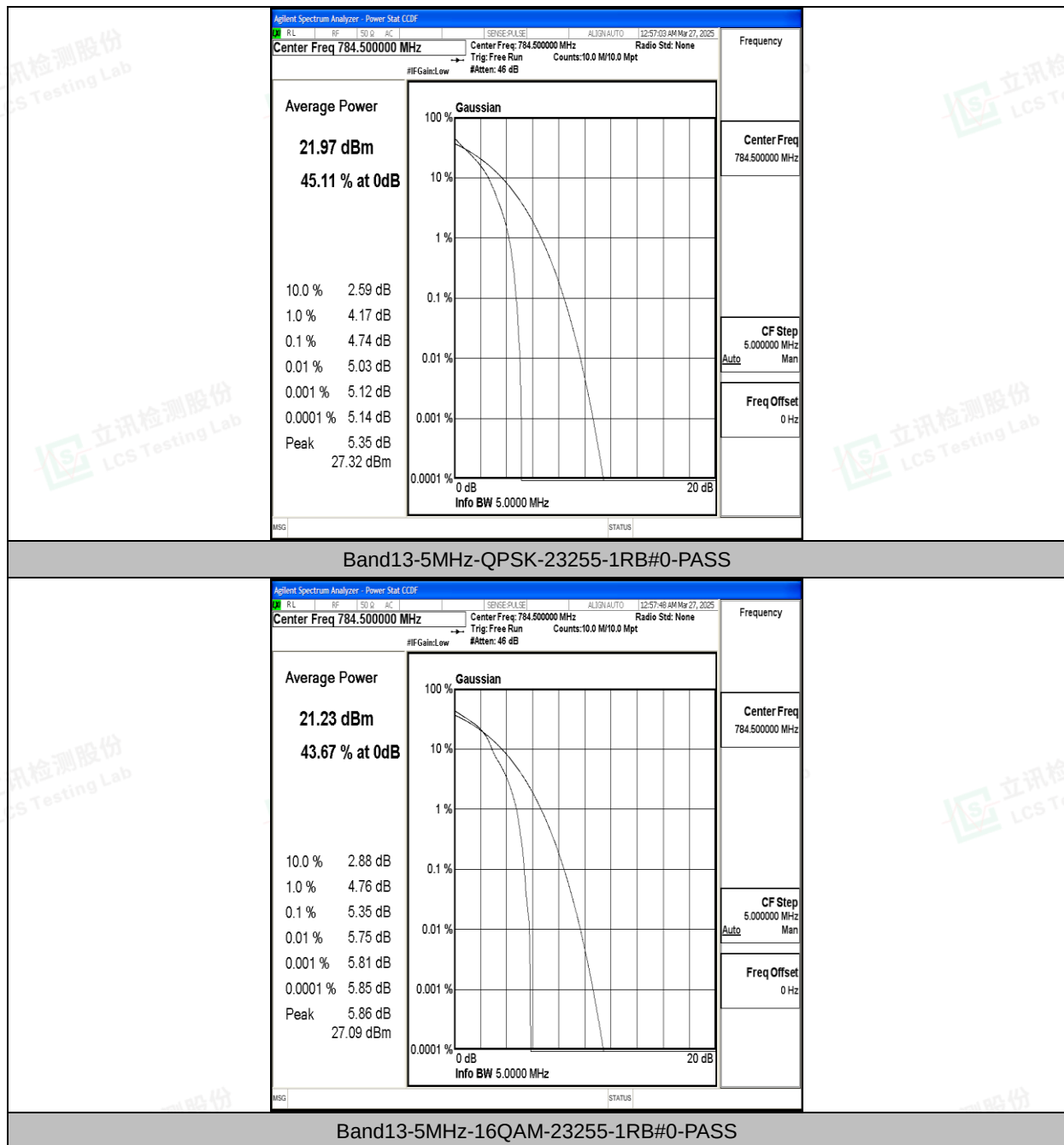


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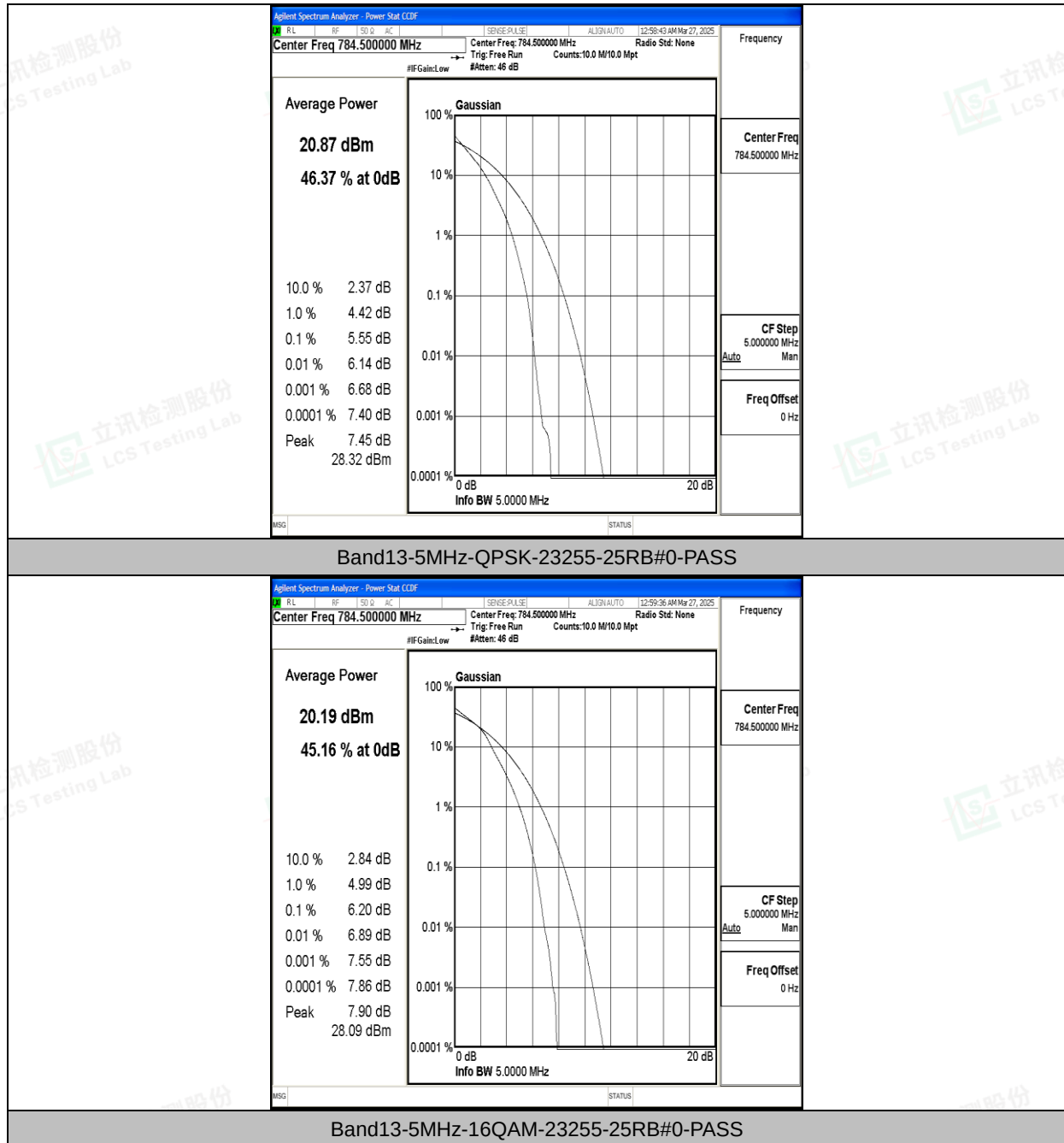


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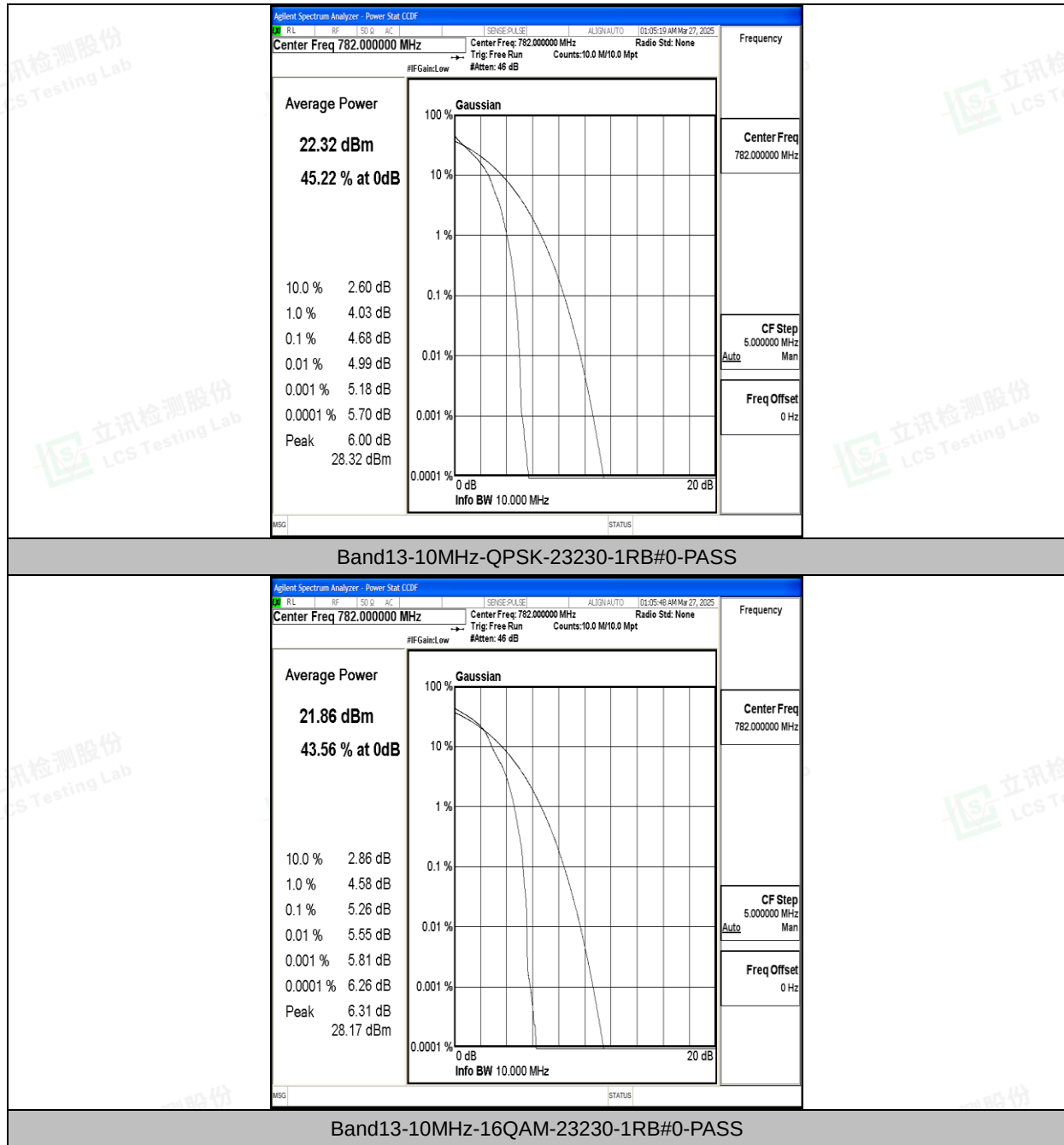


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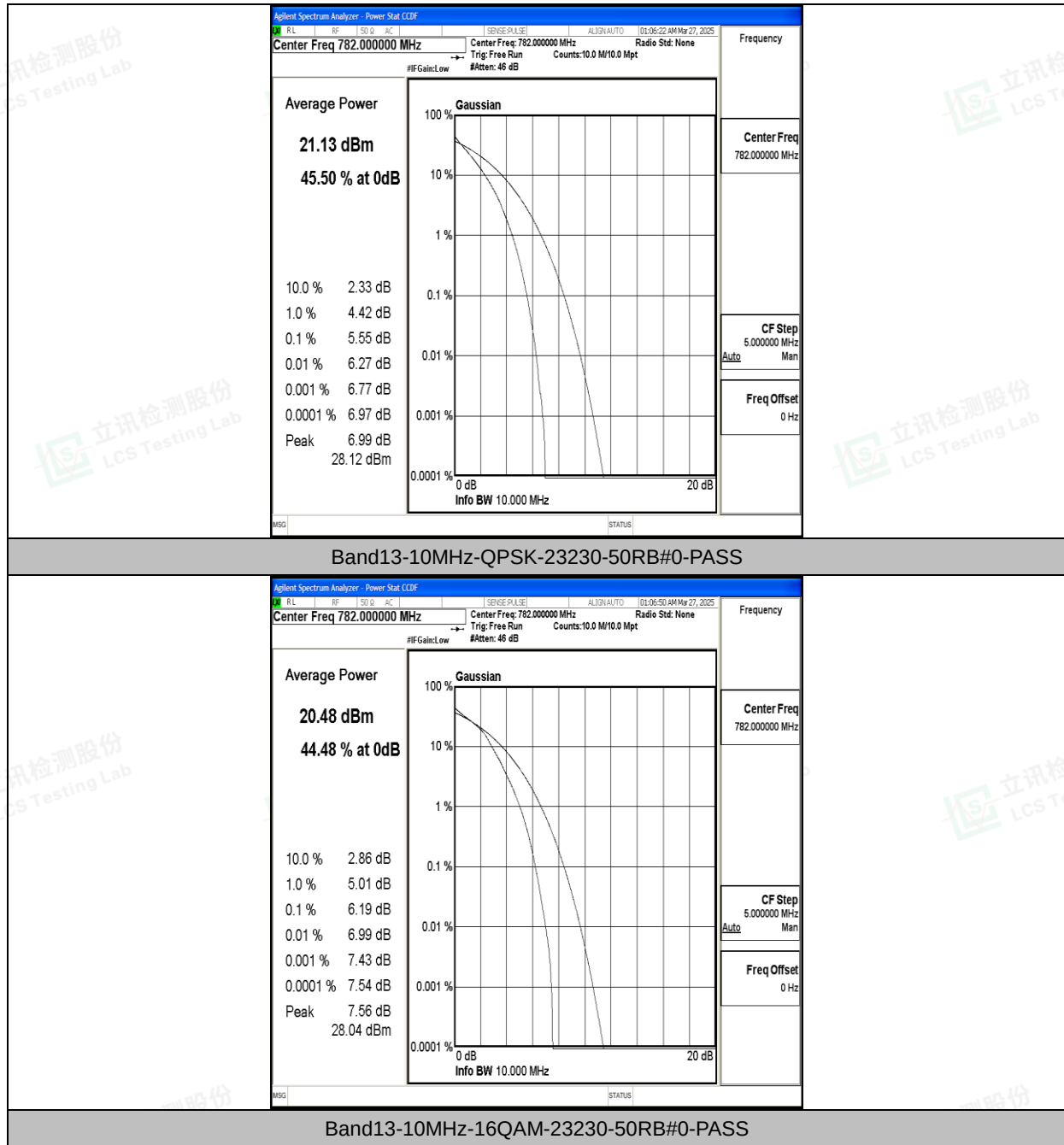


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M.3 26dB Bandwidth and Occupied Bandwidth

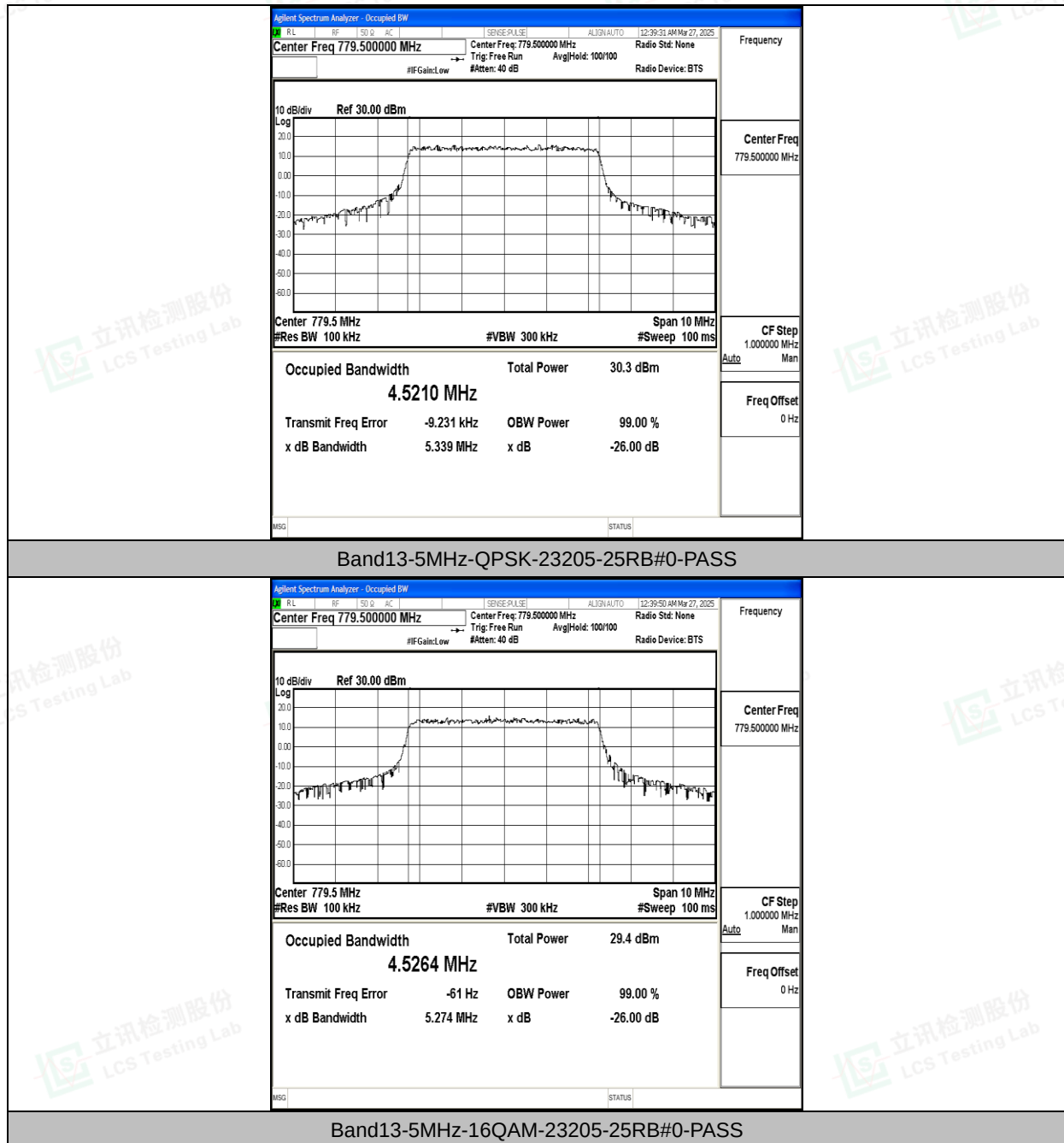
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5210	5.339	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5264	5.274	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5156	5.376	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5268	5.446	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5211	5.201	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5491	5.414	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9881	10.06	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9864	10.03	PASS





Test Graphs

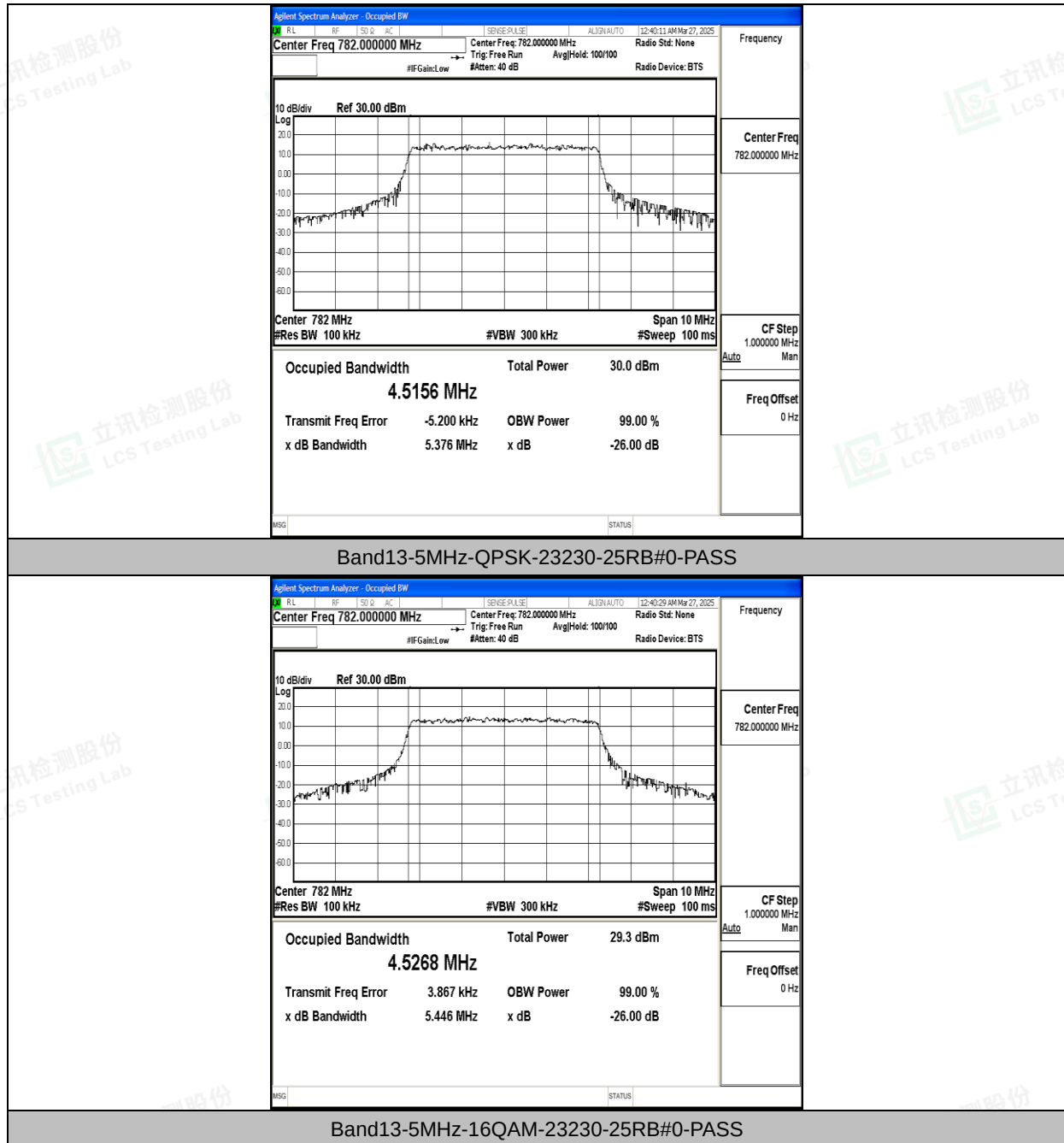


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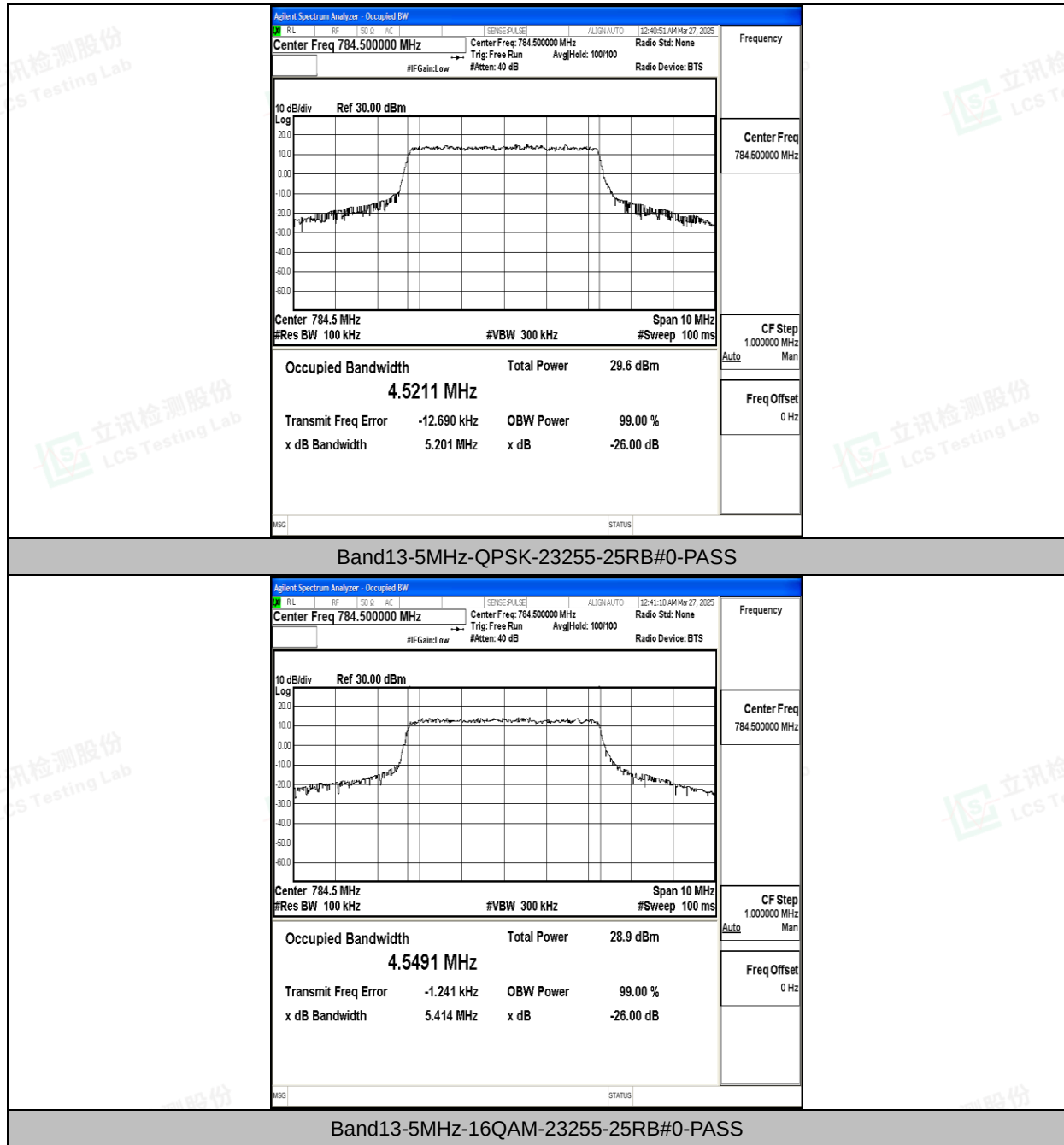


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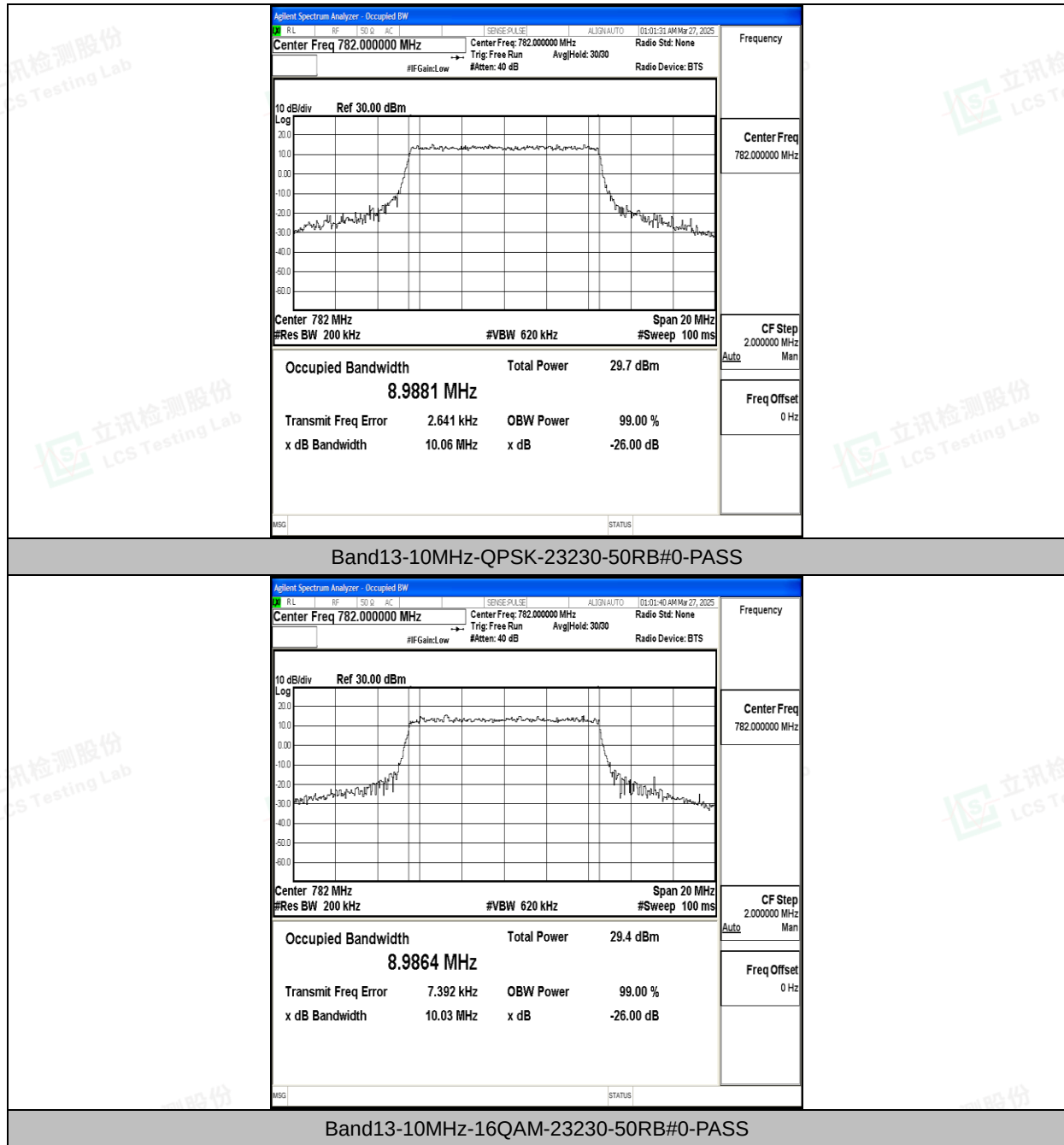


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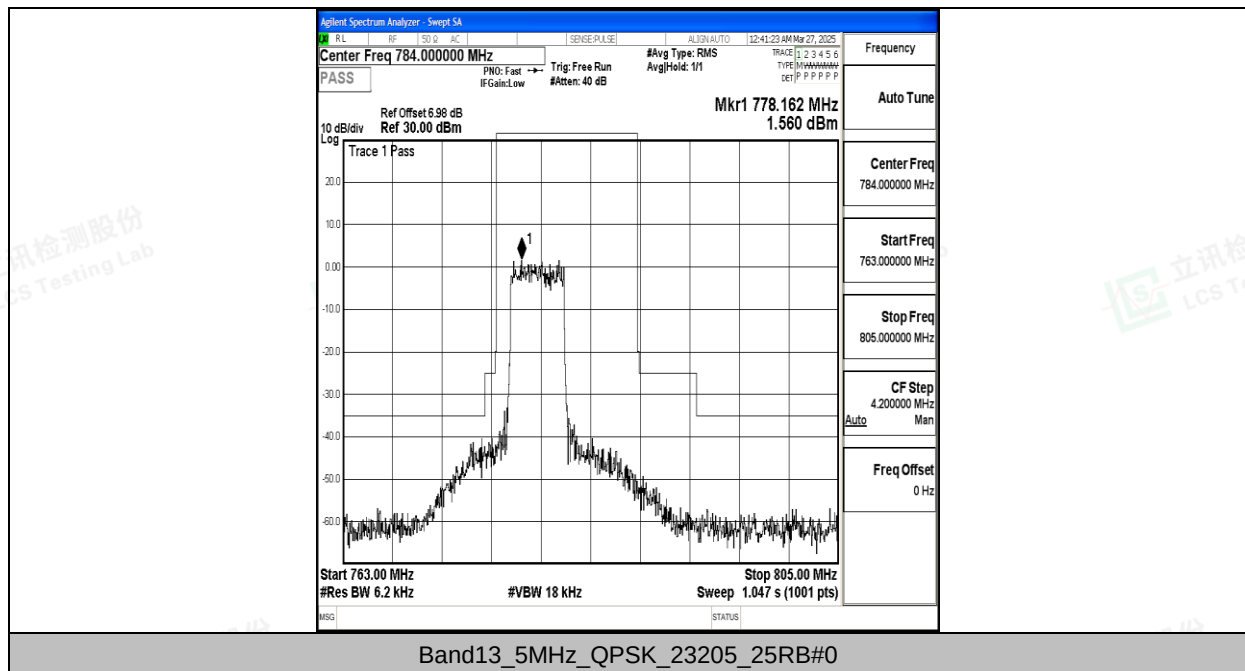


M.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.80	-40.47	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.84	-40.90	PASS
Band13	5MHz	QPSK	23255	25RB#0	774.80	-50.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.12	-42.94	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.38	-44.54	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.30	-44.34	PASS

Test Graphs

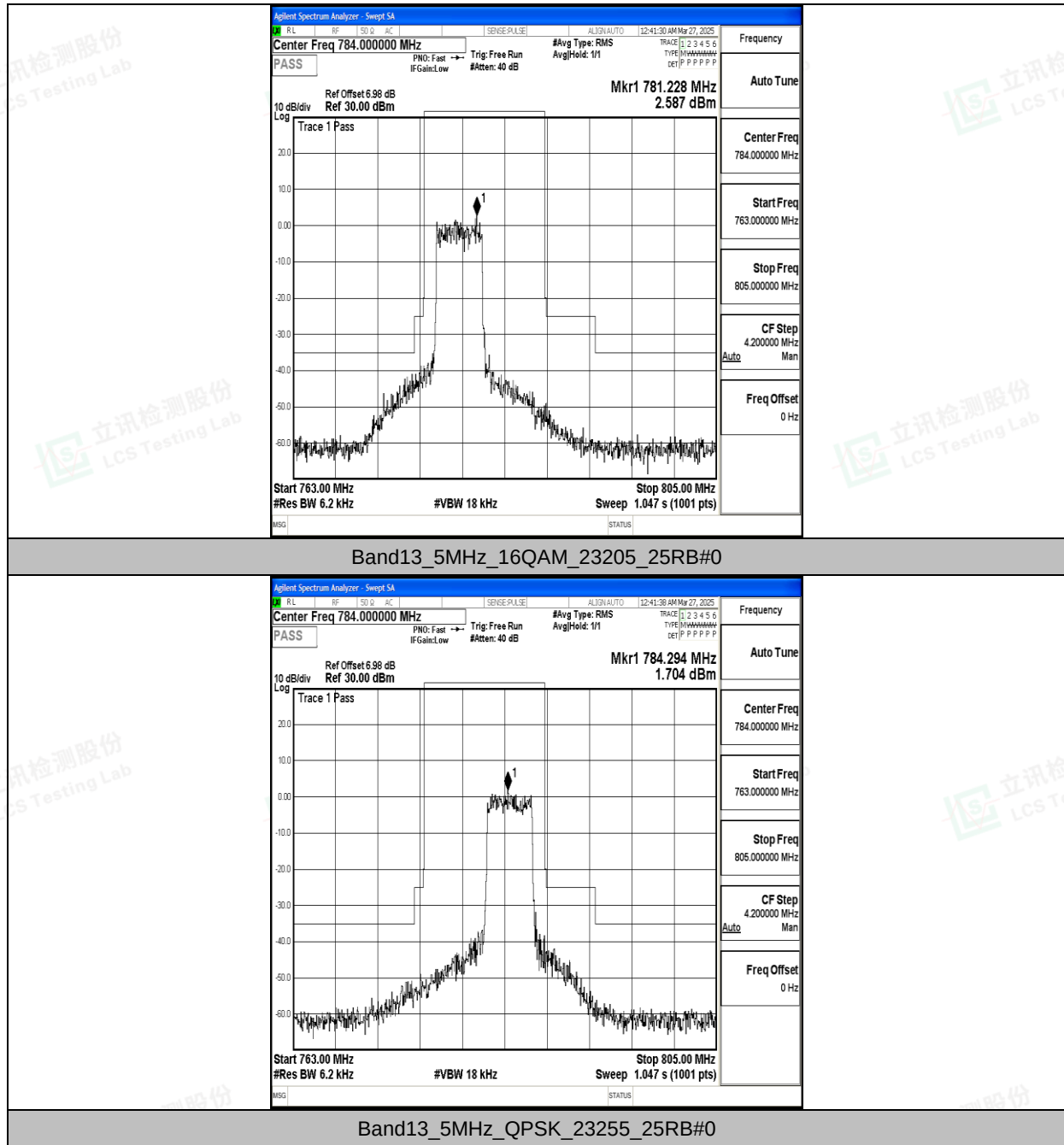


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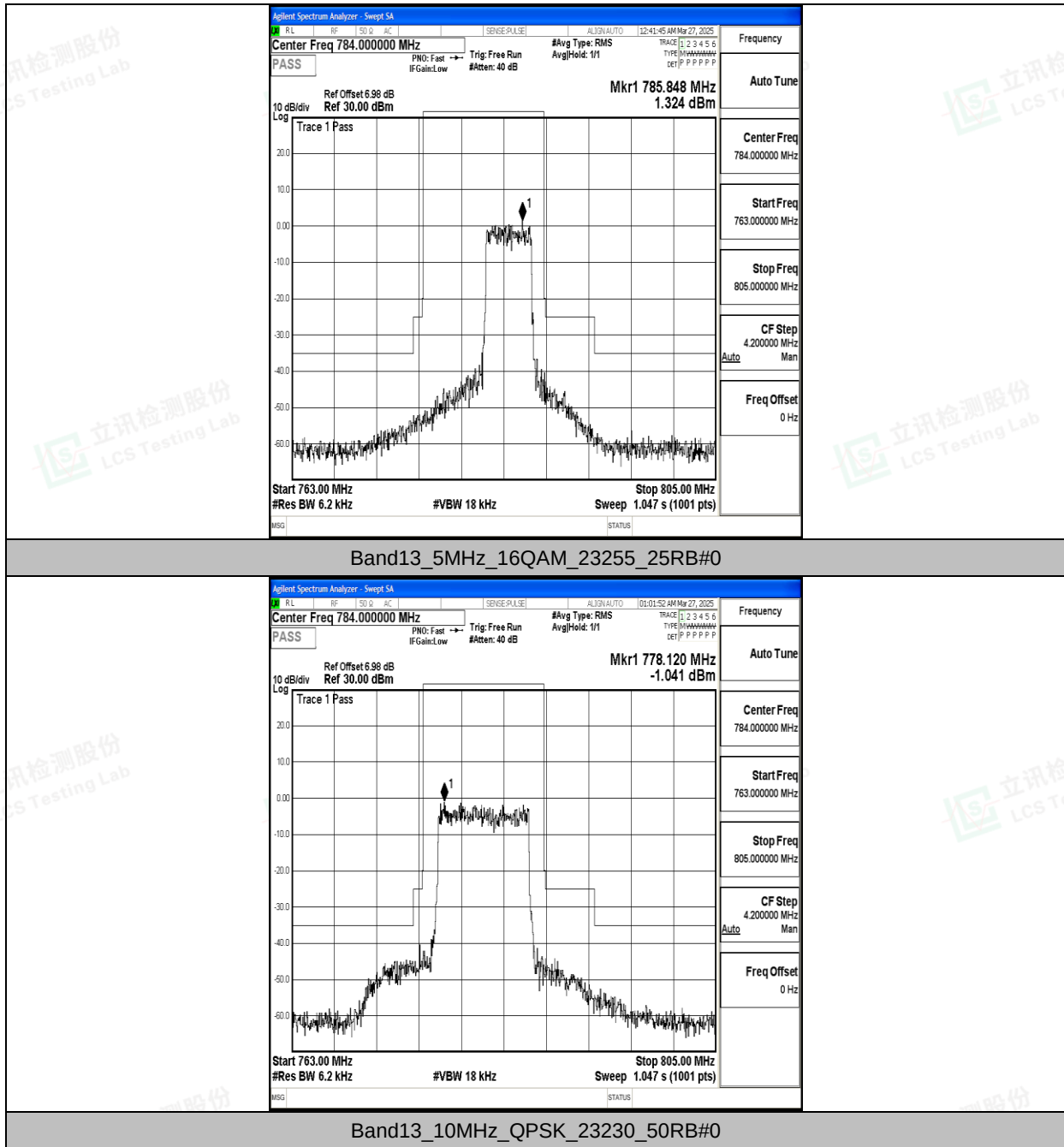


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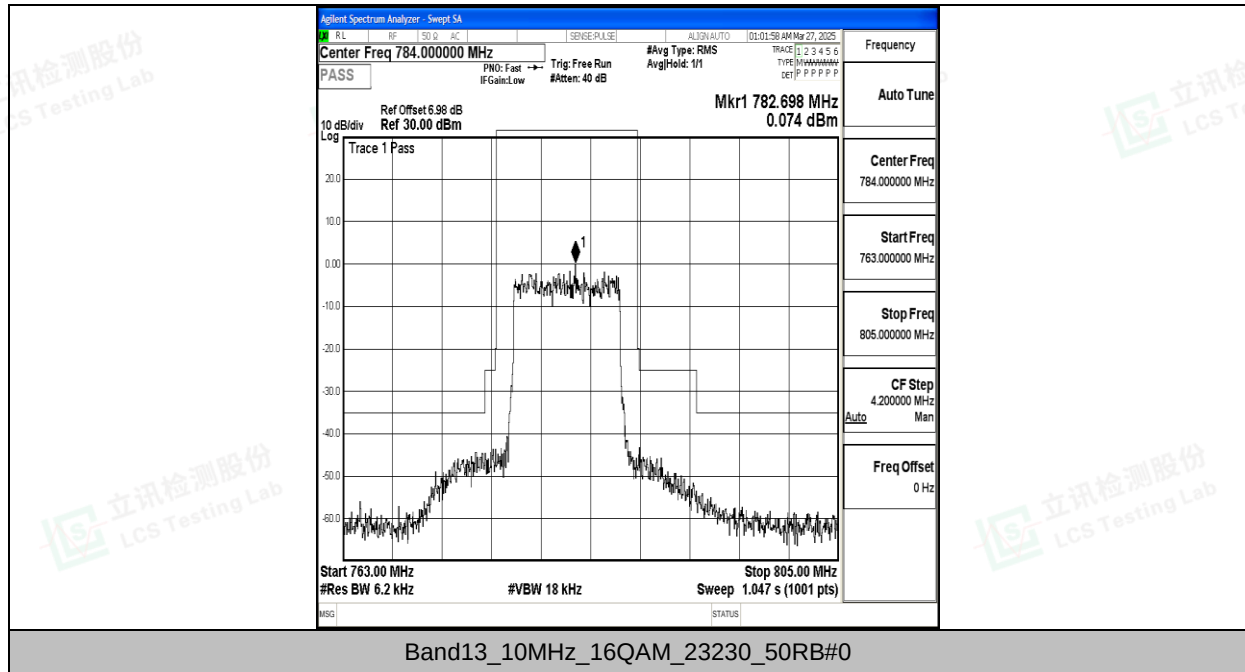


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M.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-56.23	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-46.41	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-45.90	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-37.47	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.20	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-53.10	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-45.13	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-48.66	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-38.33	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.41	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-61.29	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-46.53	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-36.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.29	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-57.59	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-48.08	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.22	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.31	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.51	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-57.63	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-45.79	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-44.53	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-58.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-42.02	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.40	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-37.45	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.29	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-59.18	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-46.74	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.55	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-37.27	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.04	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-60.21	PASS



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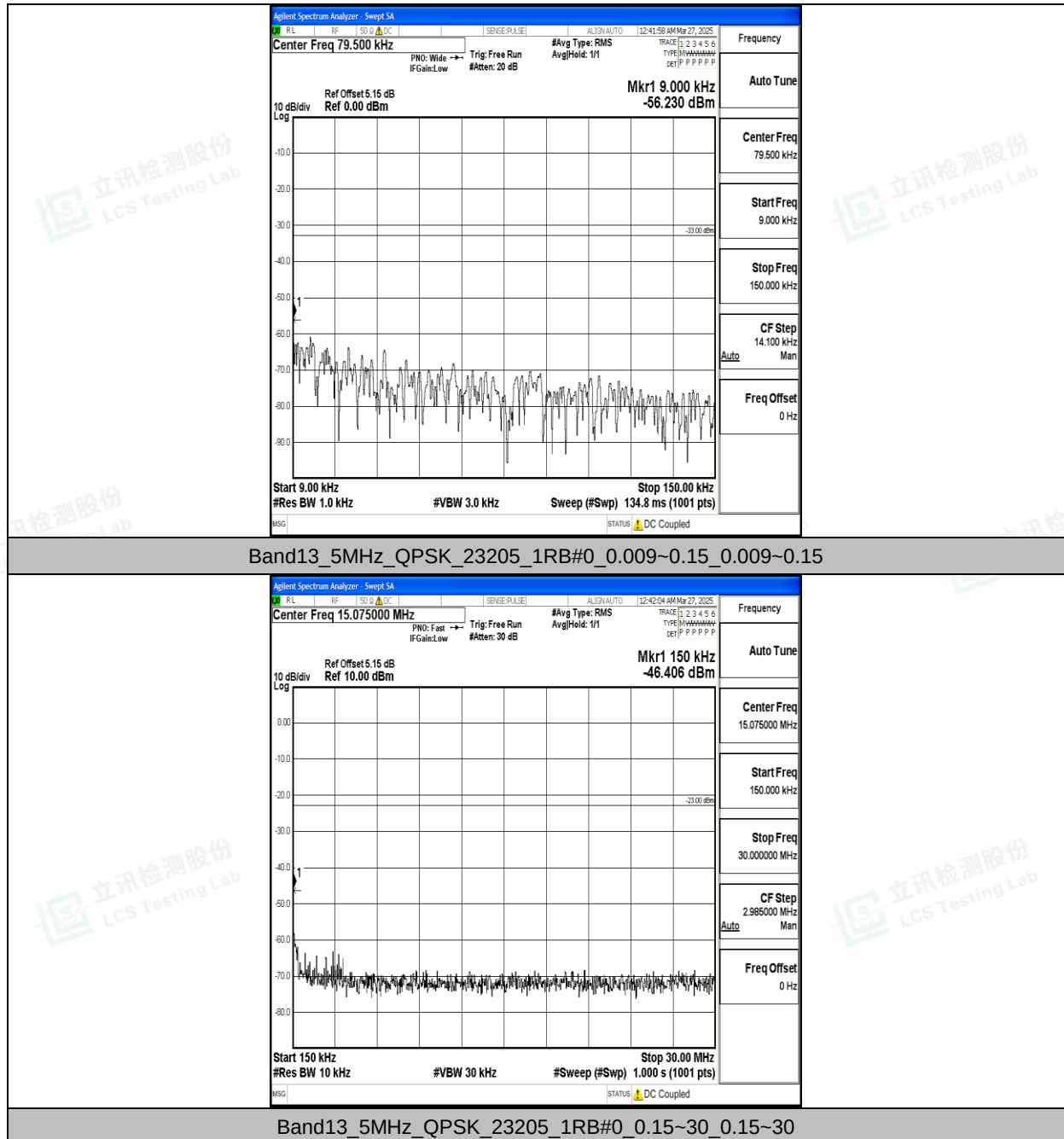
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Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-47.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.69	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-37.17	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.72	PASS

Test Graphs

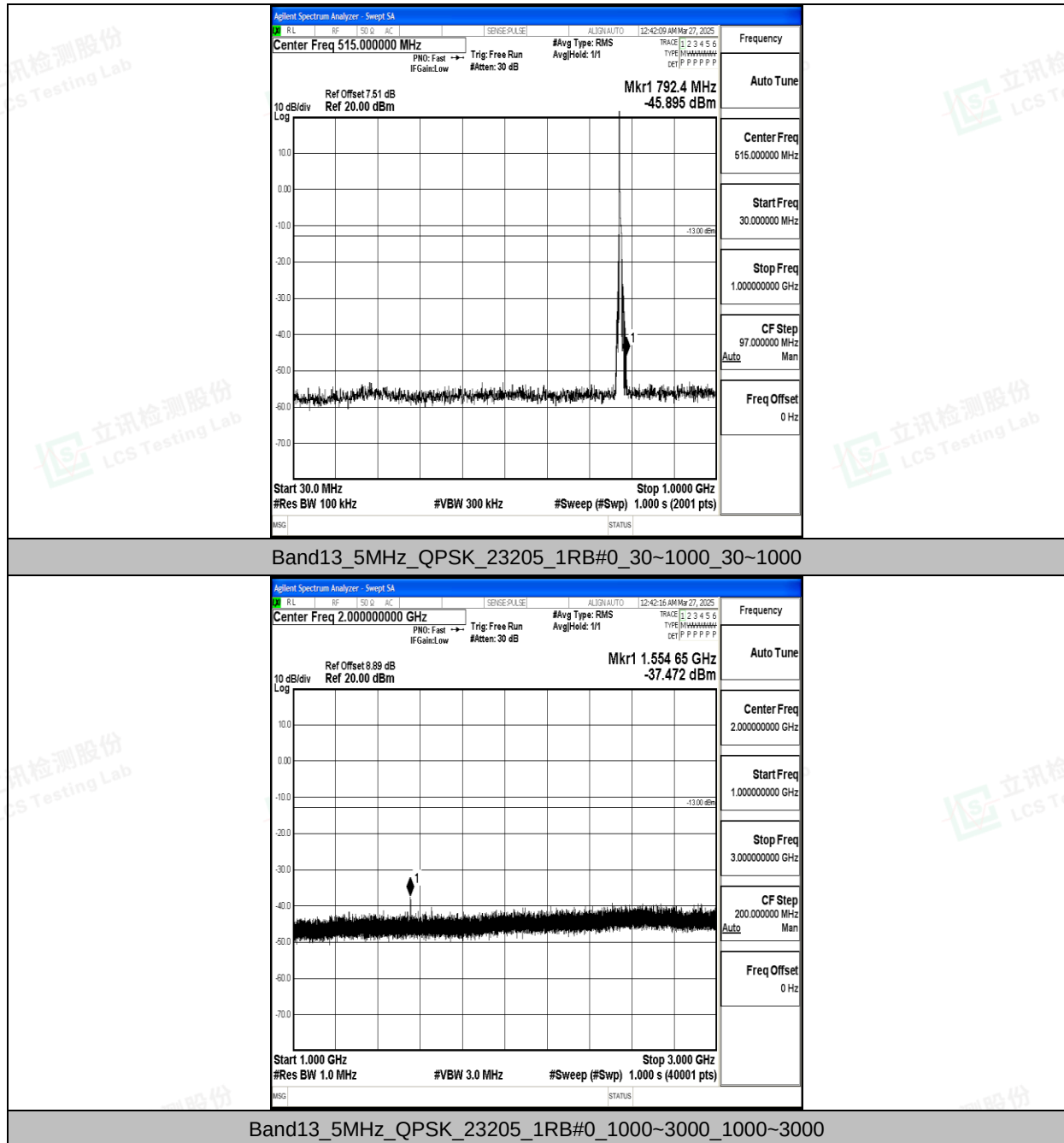


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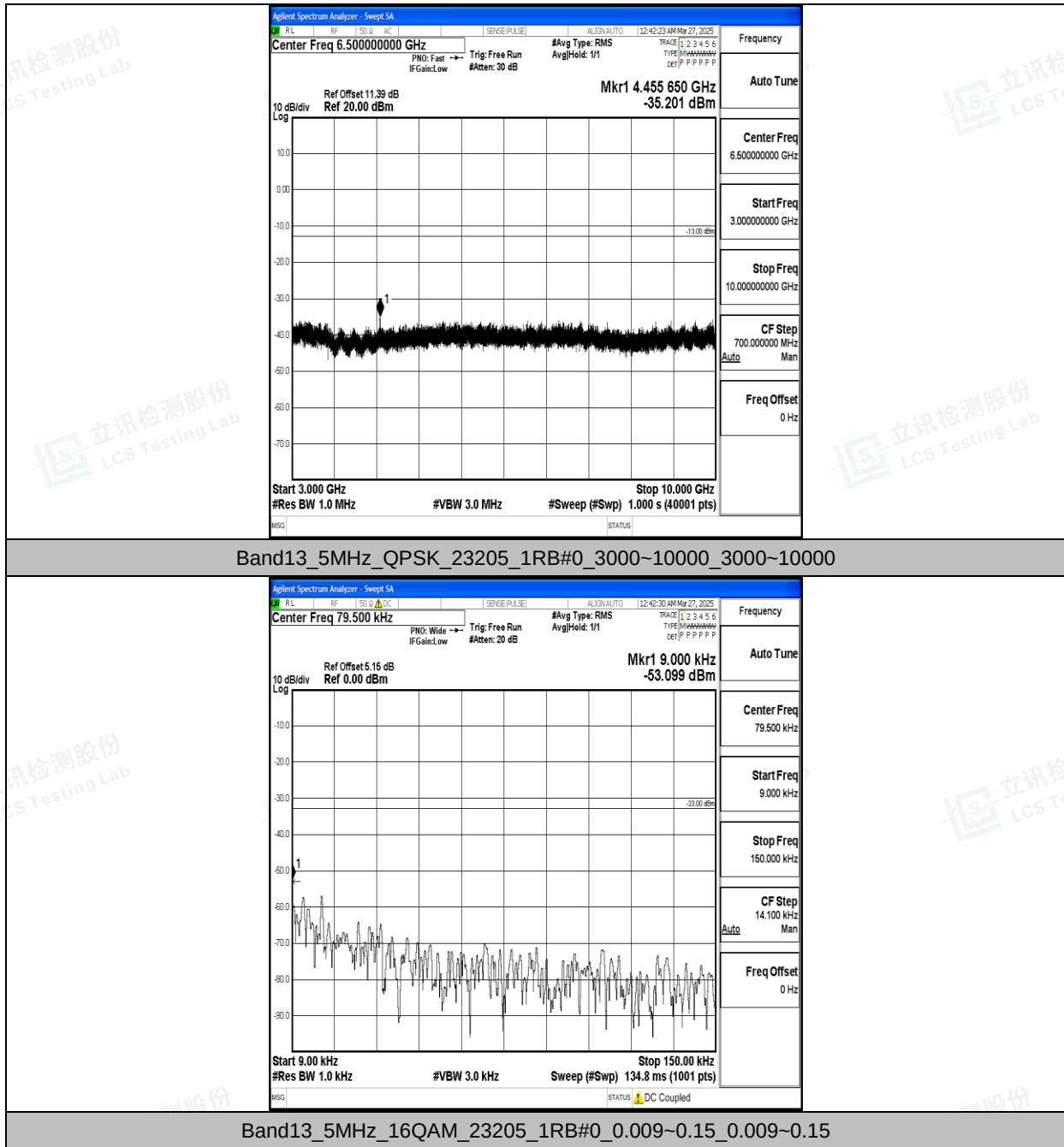


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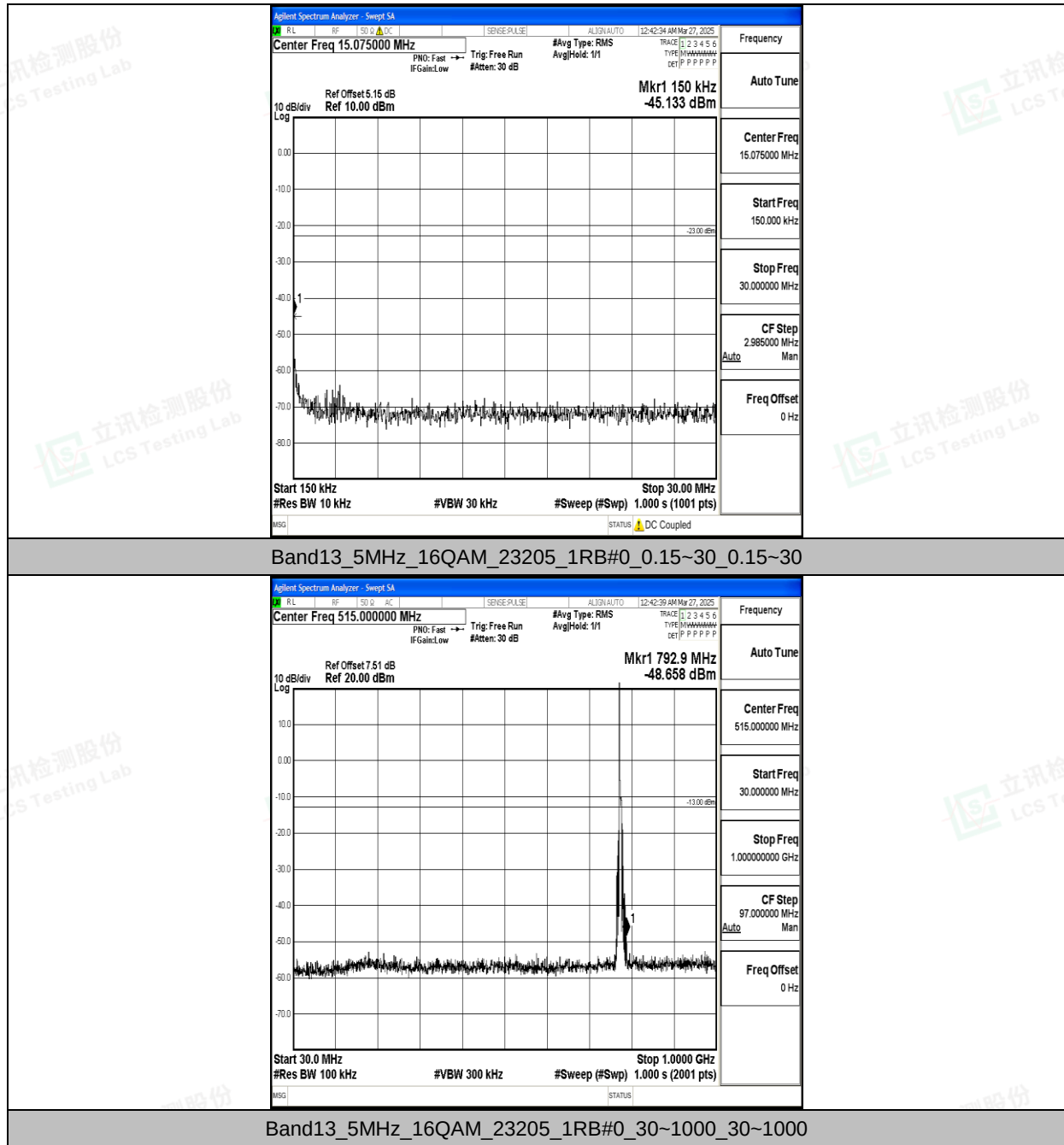


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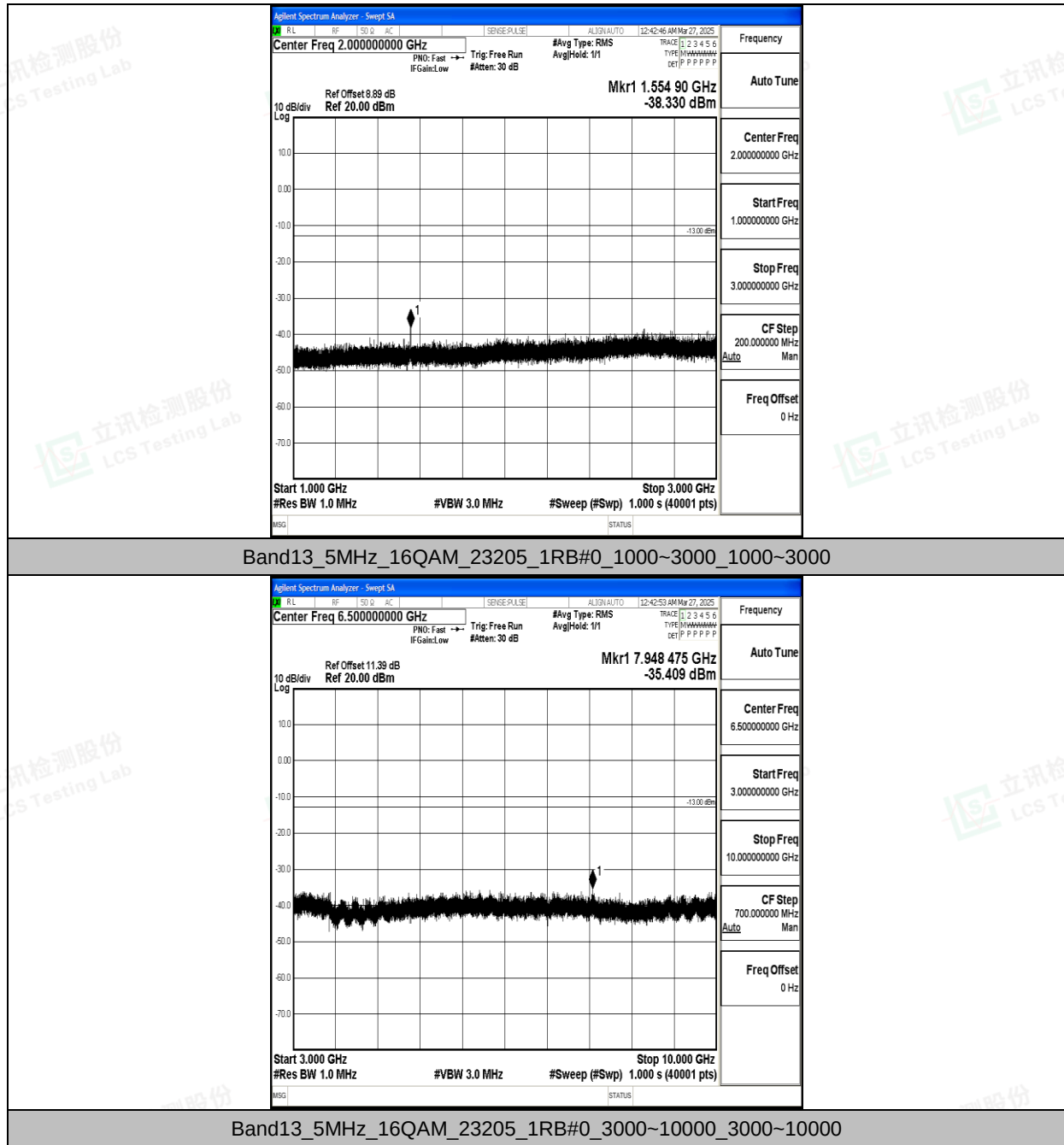


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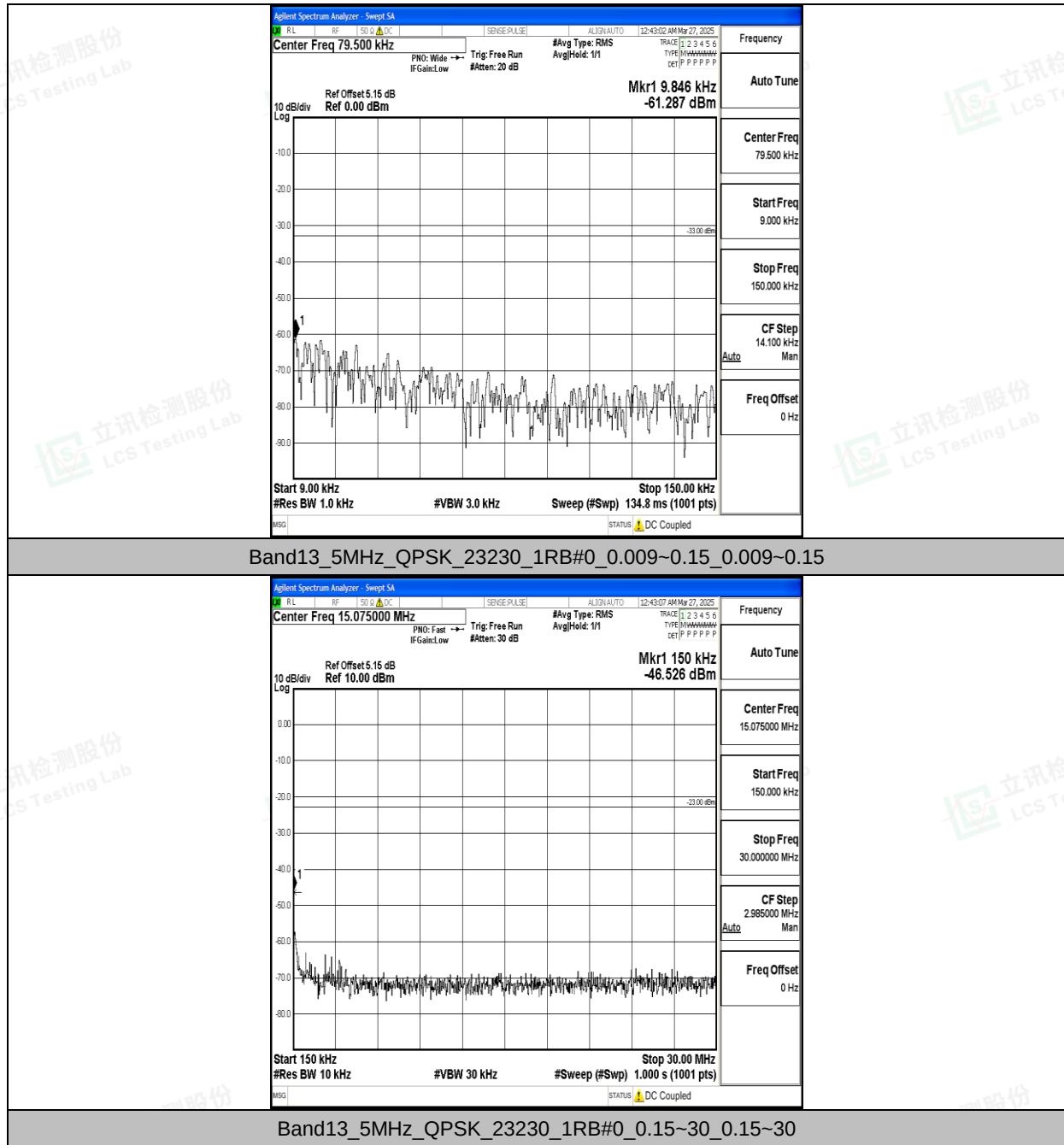


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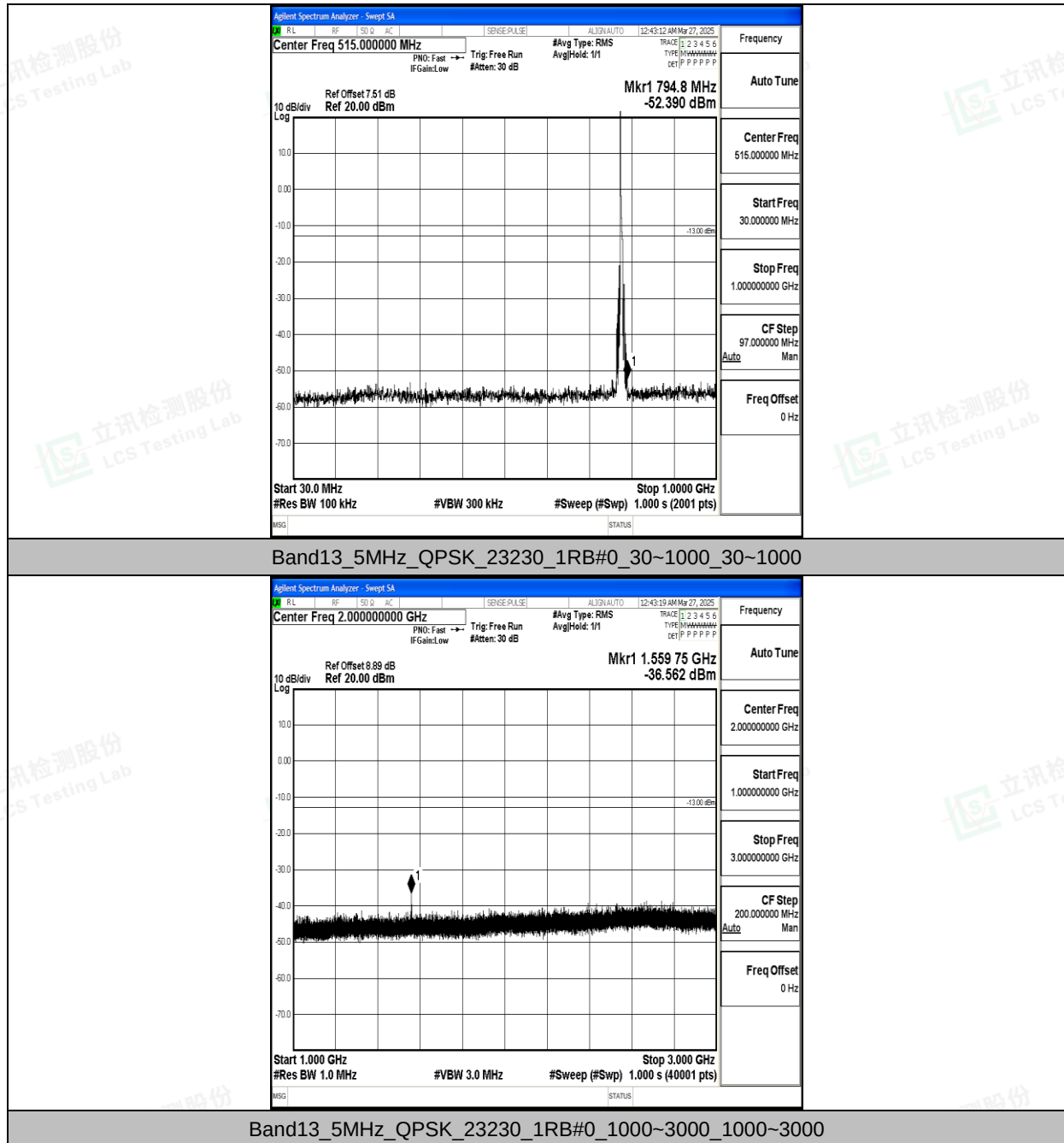


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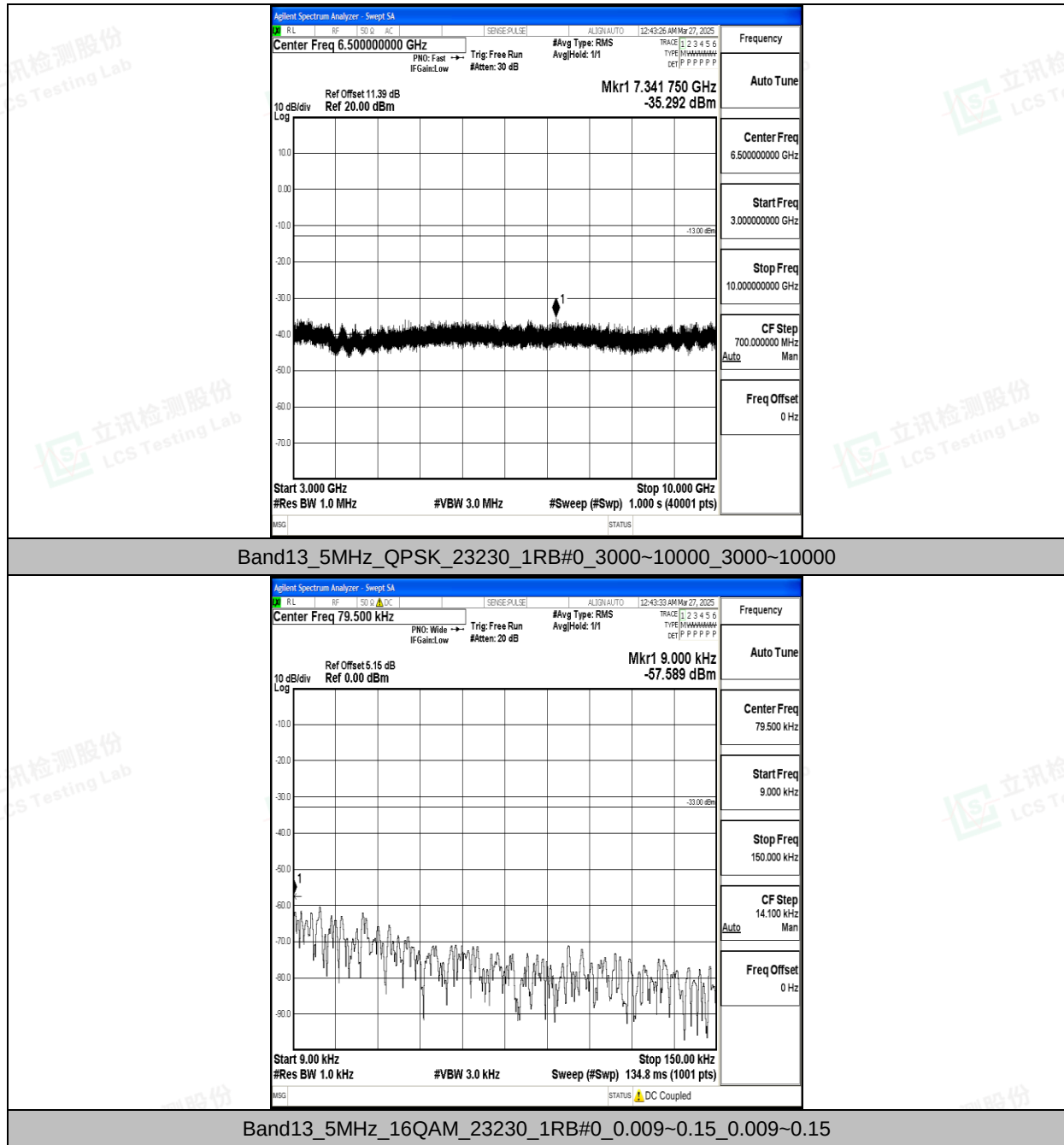


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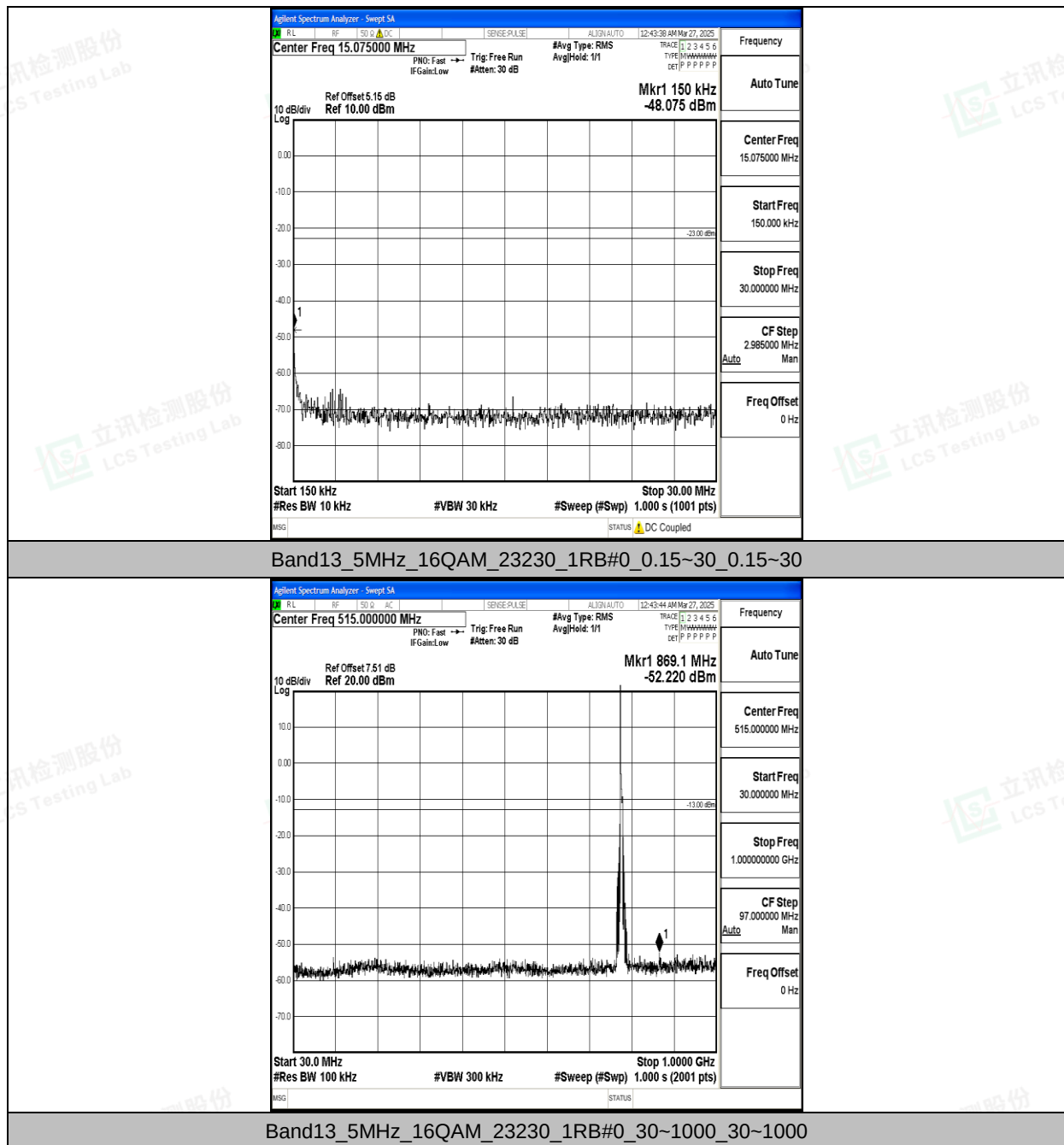


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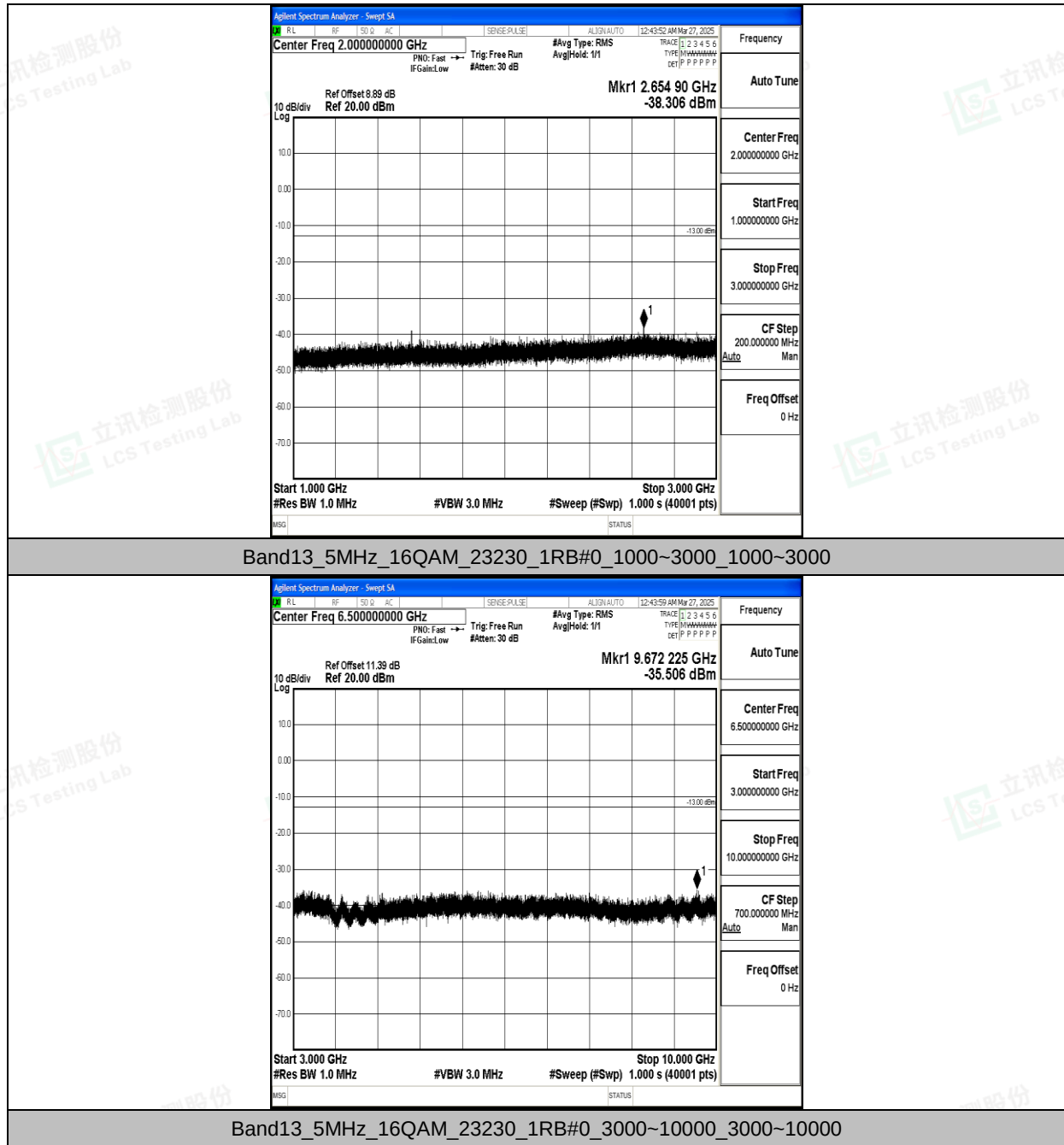


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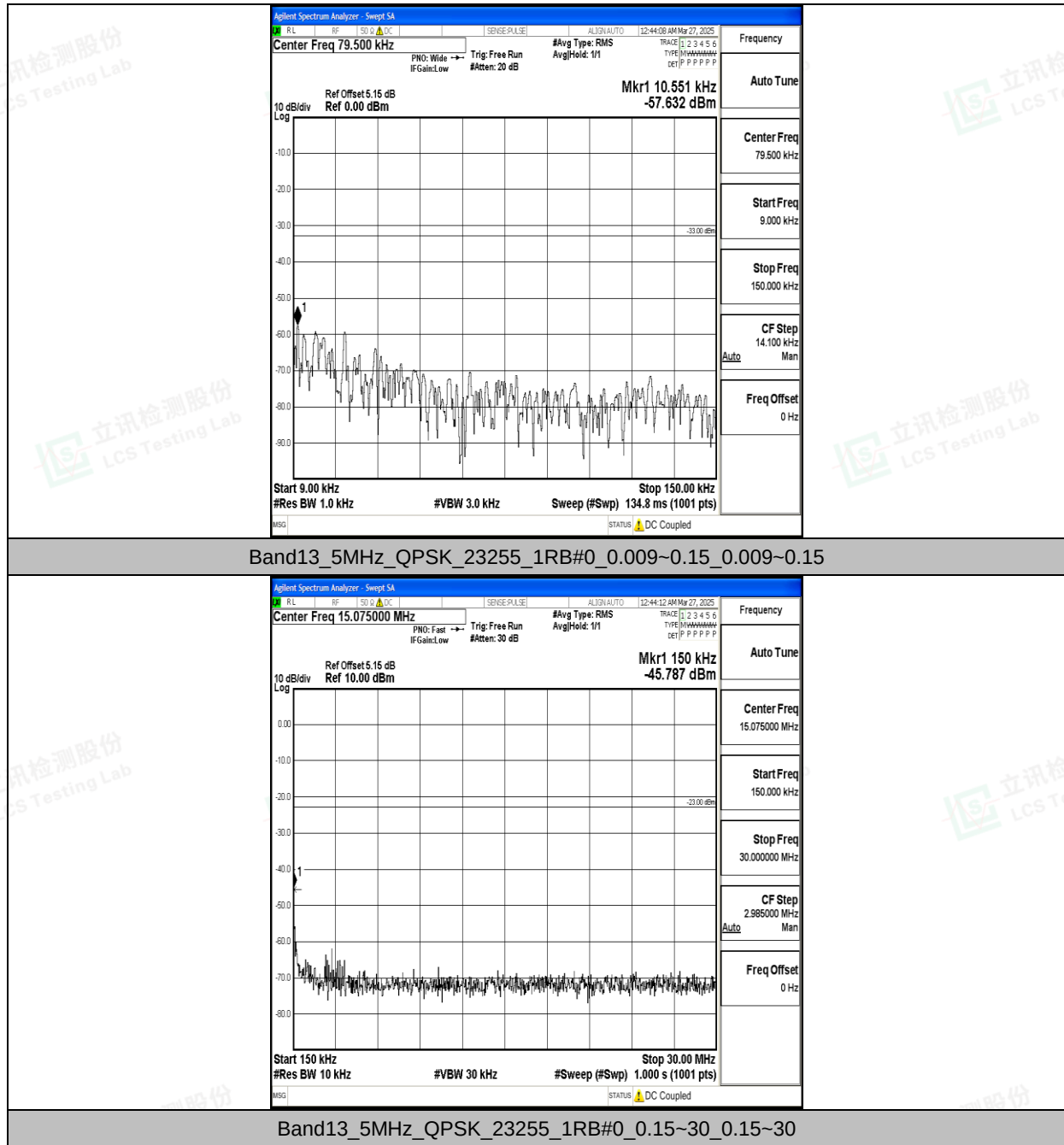


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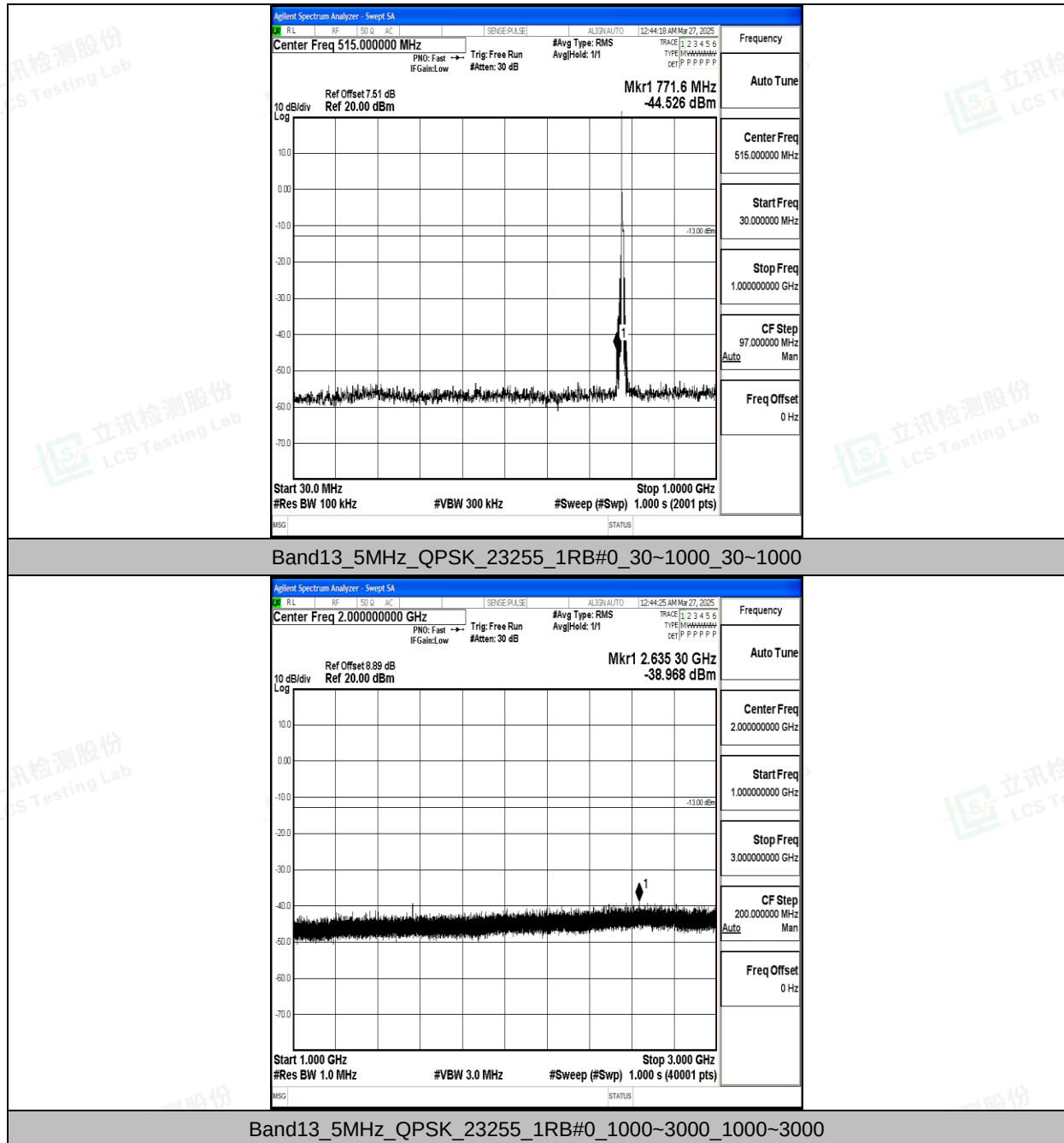


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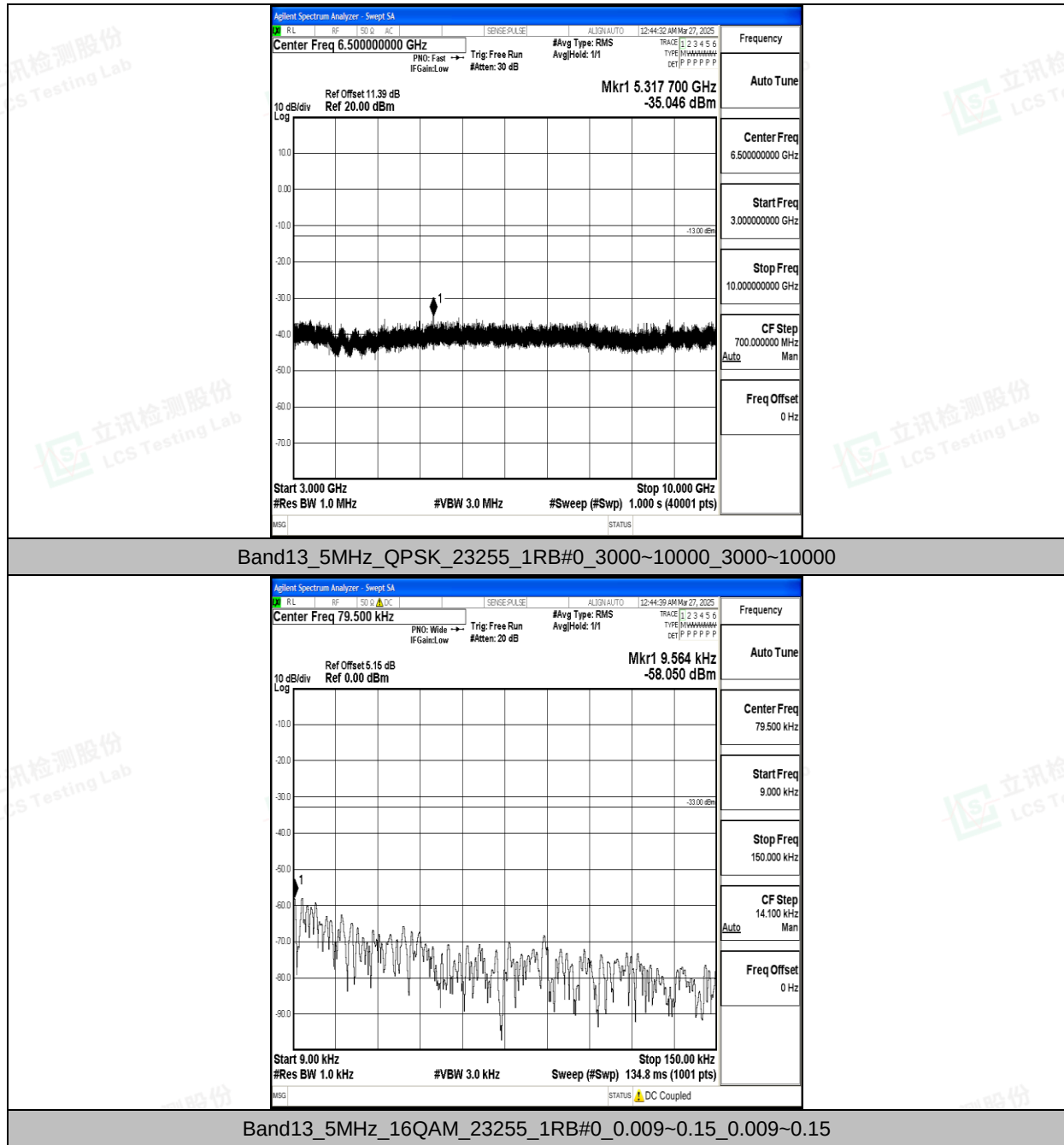


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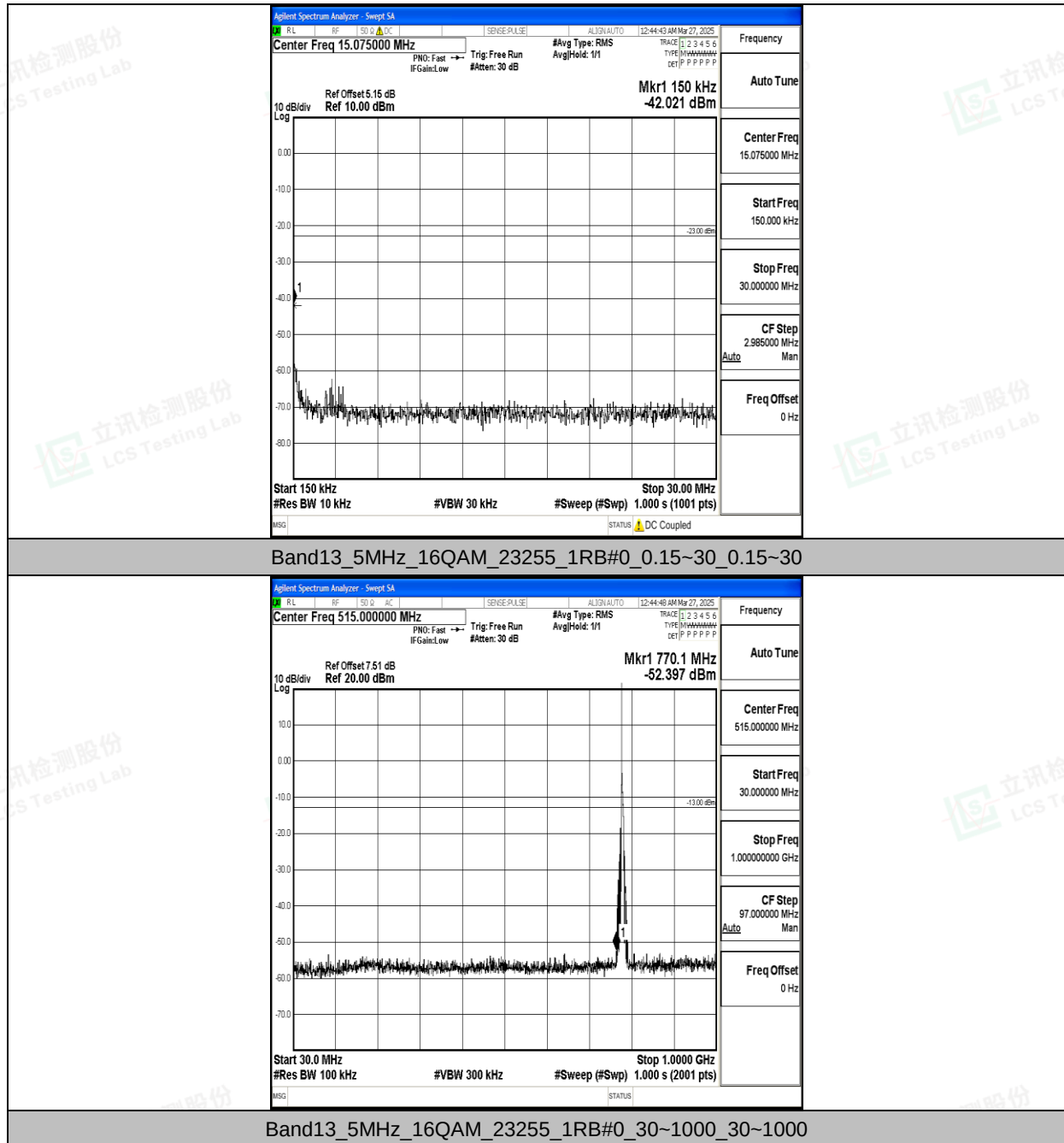


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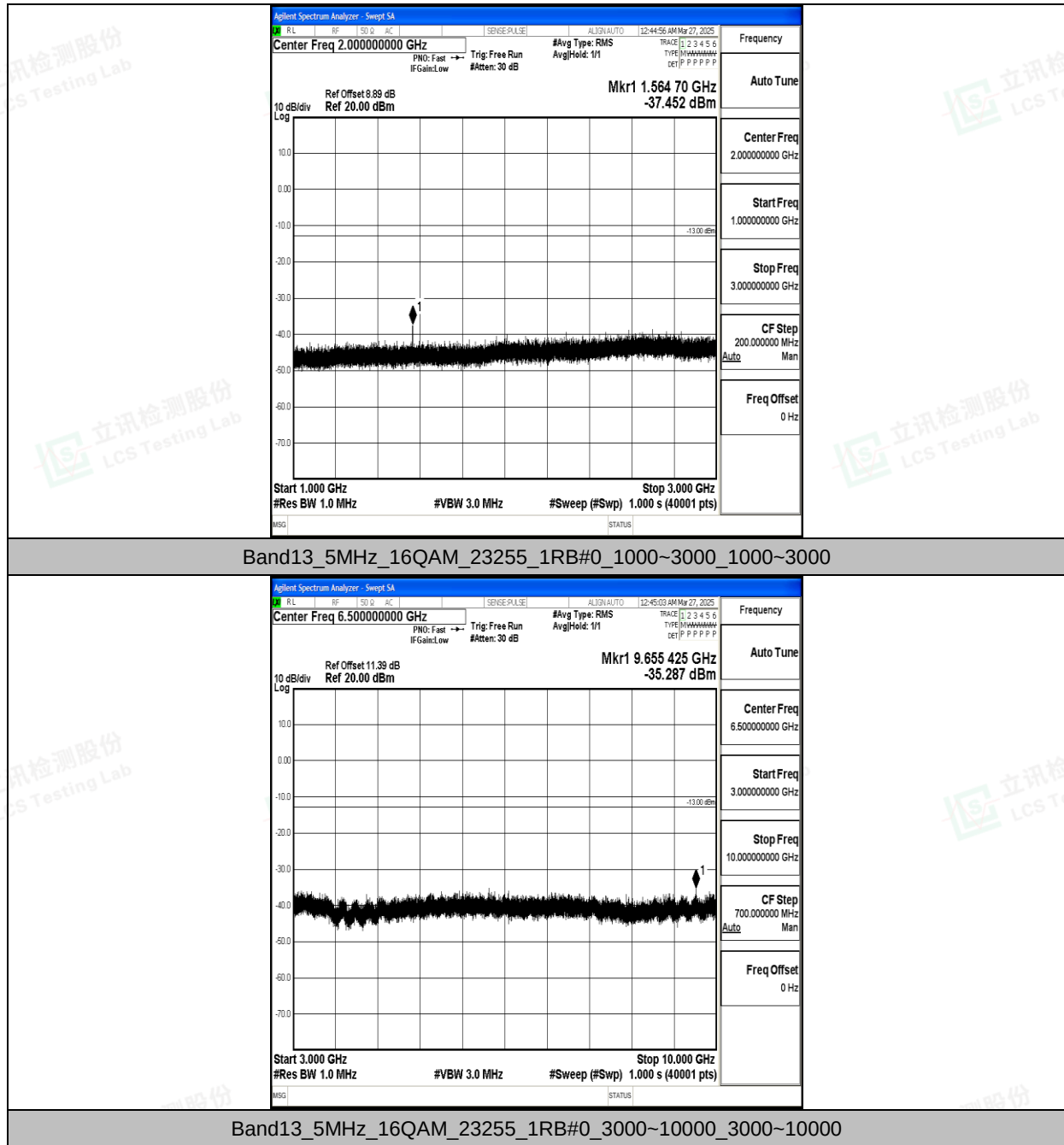


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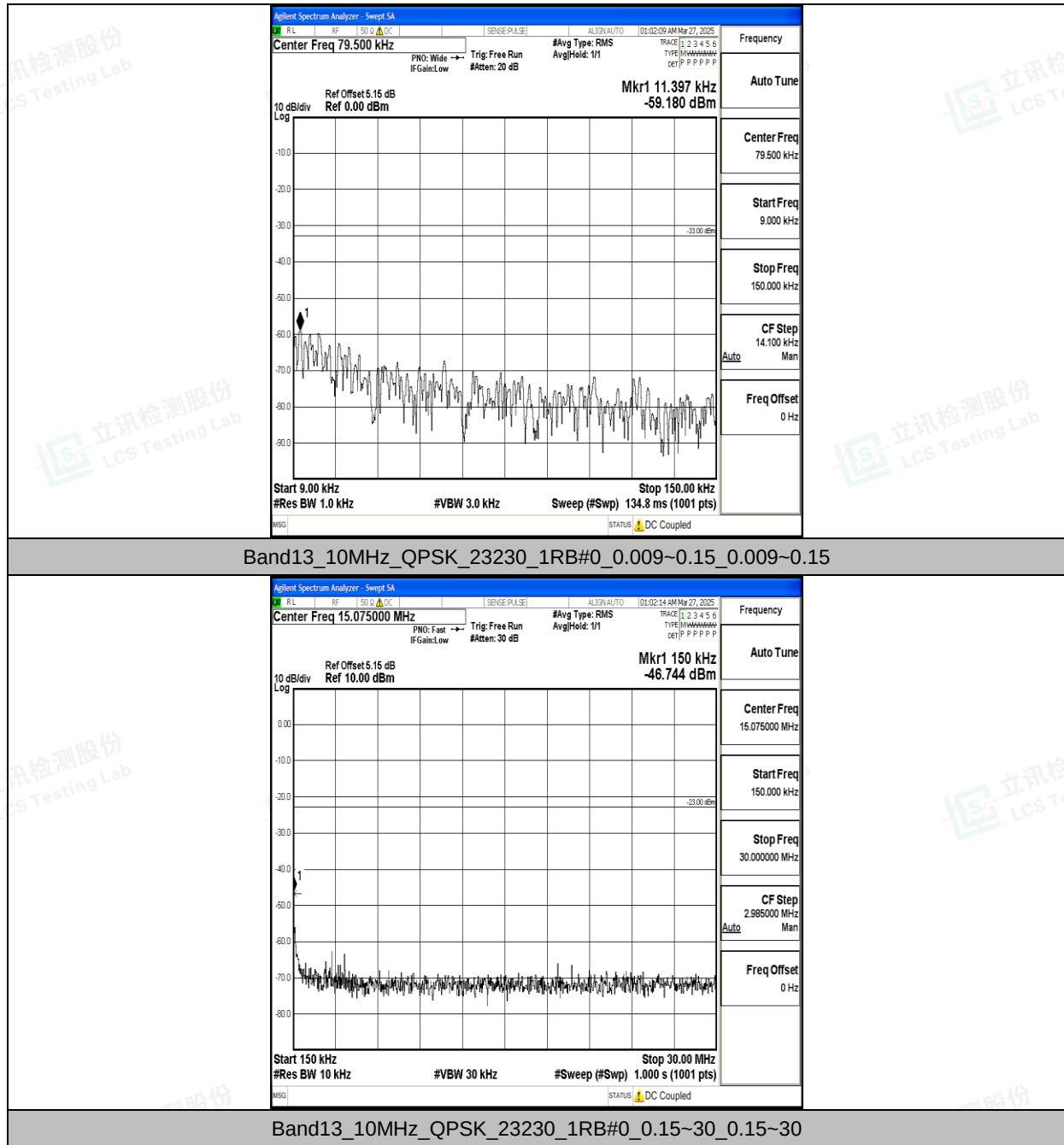


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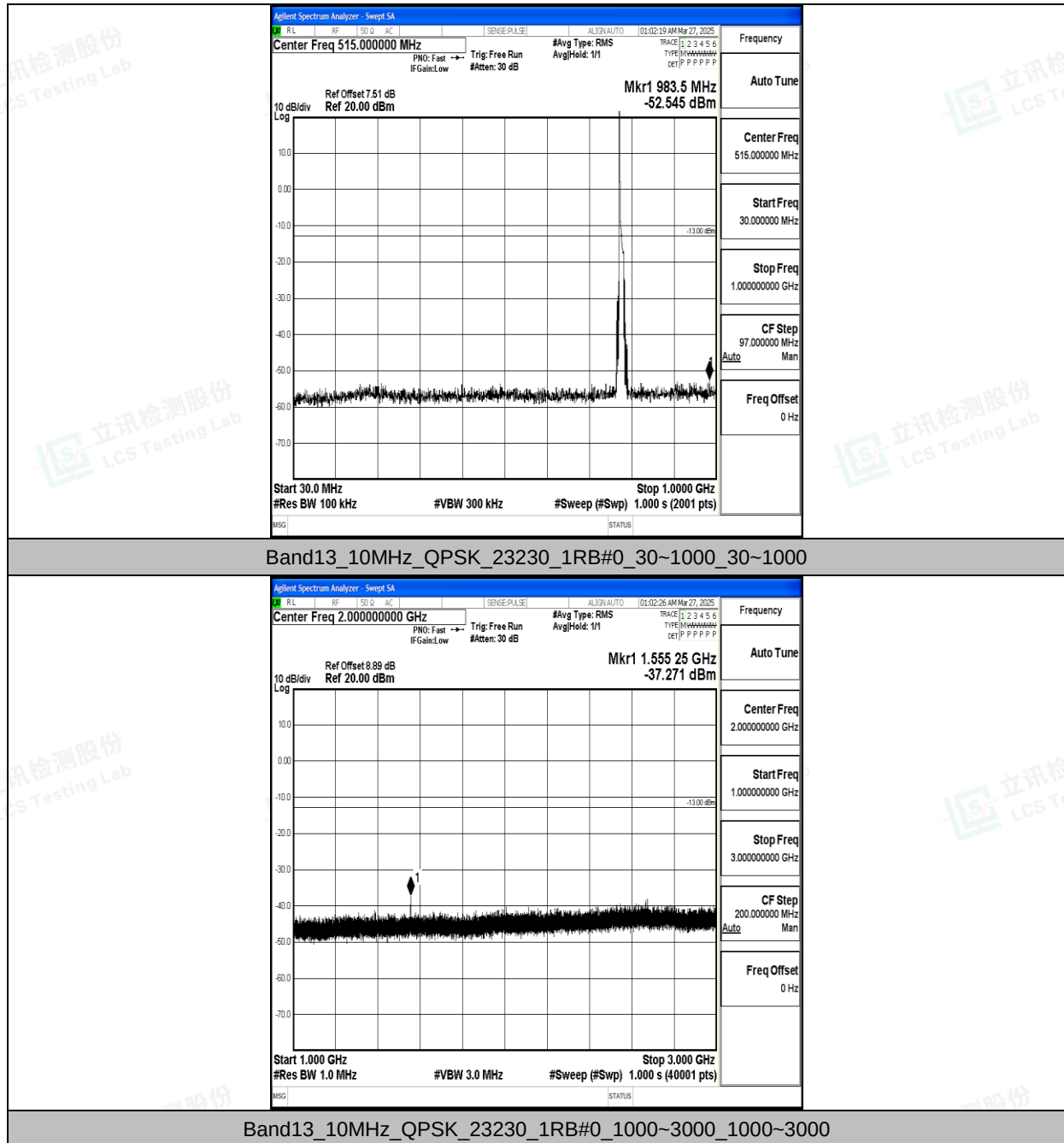


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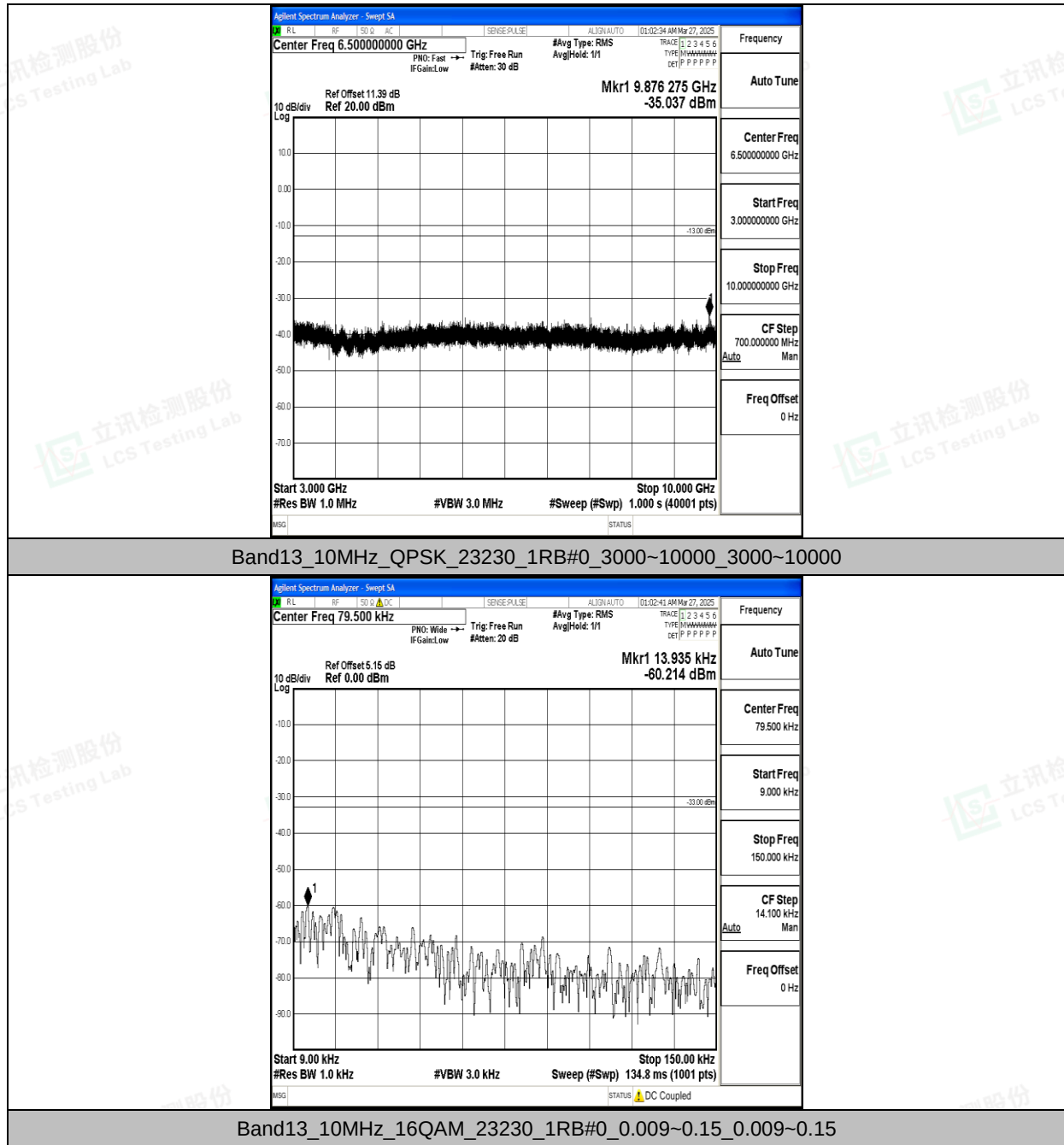


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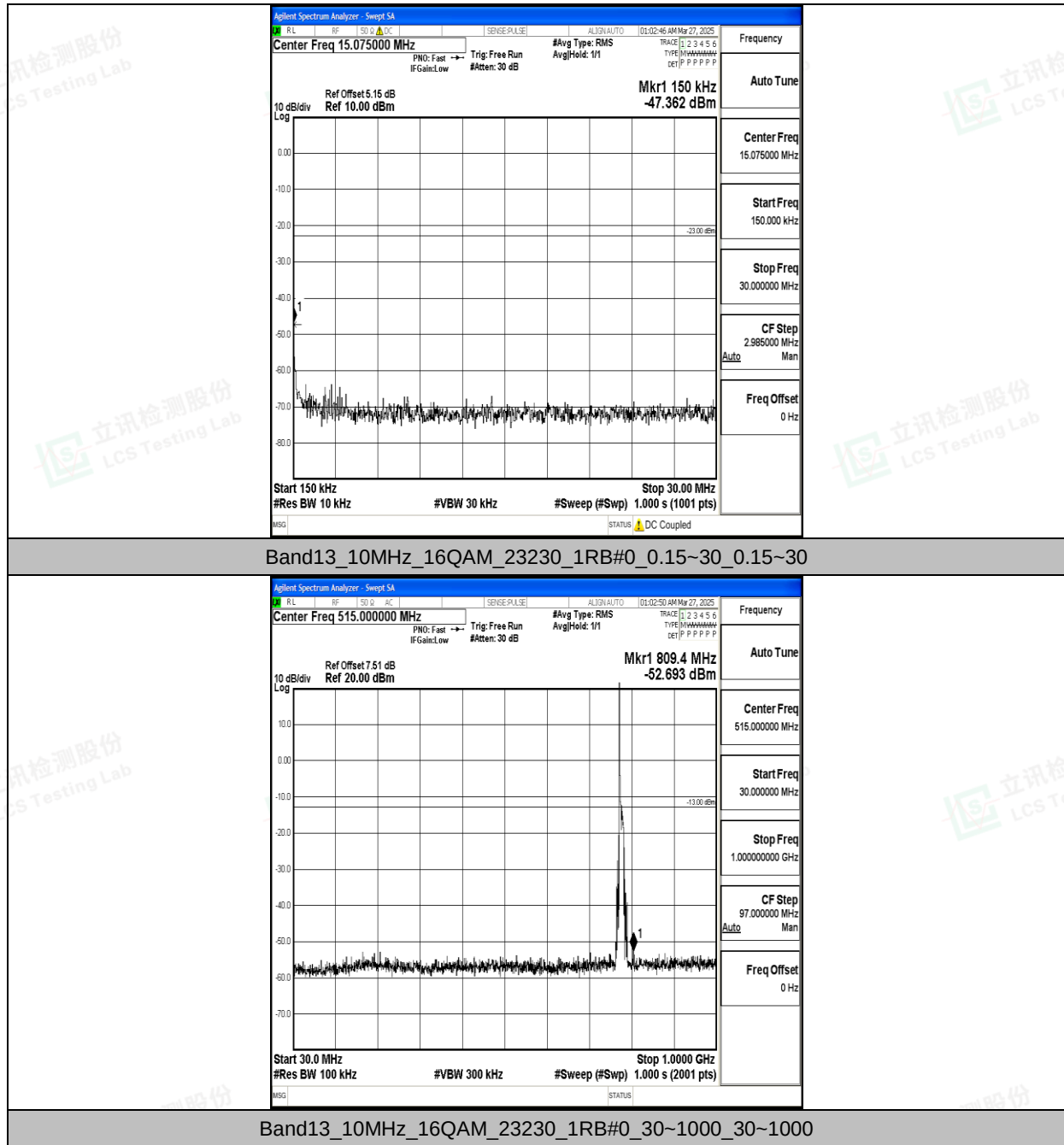


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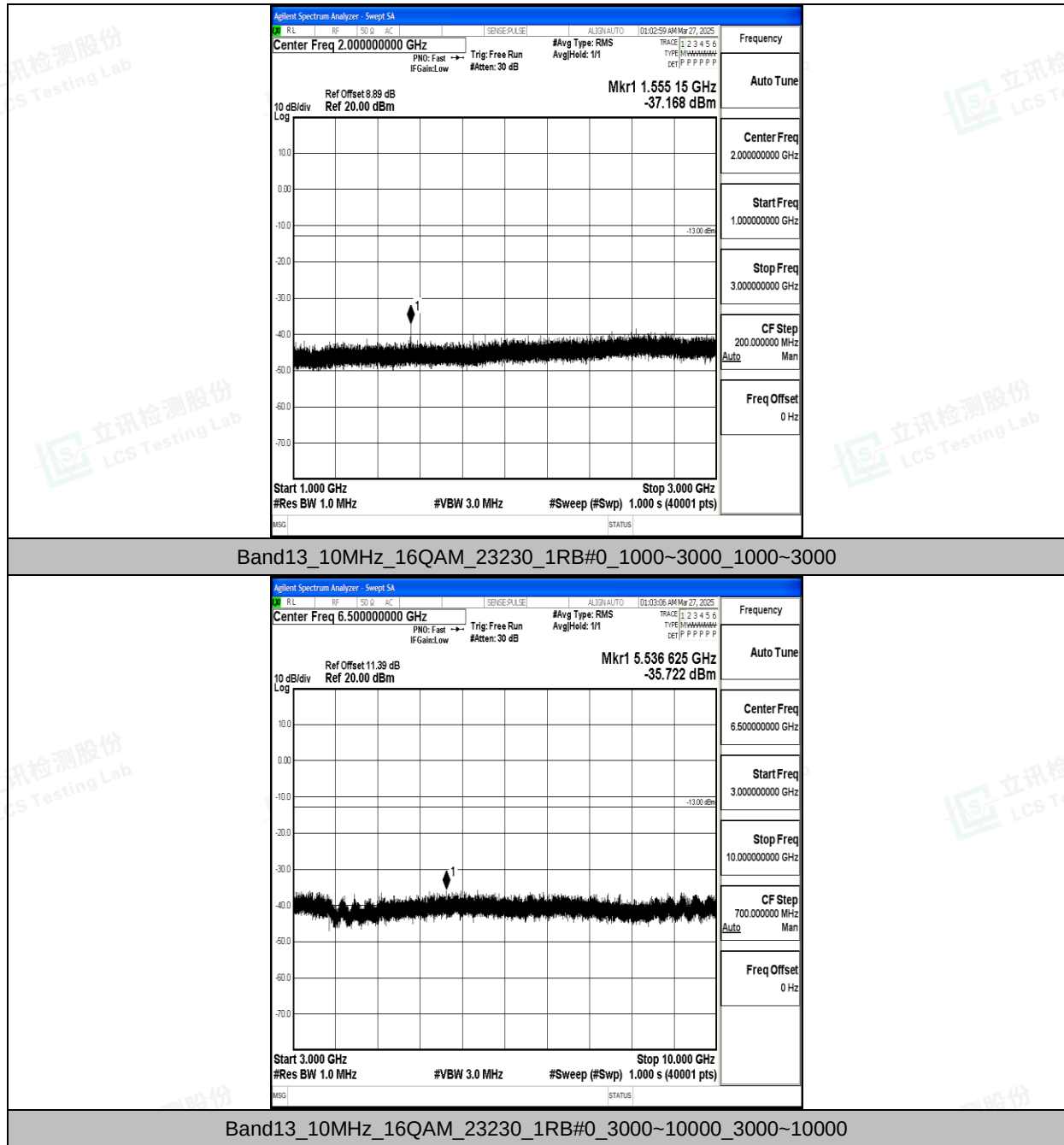


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