



Appendix M: Test Data for E-UTRA Band 13

Product Name: Smart Phone

Test Model: BraX3

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	24.12	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.20	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.26	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.26	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.28	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.35	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.15	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.22	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.14	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.22	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.22	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.30	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.22	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.18	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.30	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.17	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.30	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.13	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.32	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.20	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.24	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.26	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.24	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.26	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.23	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.24	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.26	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.47	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.27	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.44	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.30	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.43	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.30	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.31	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.31	PASS



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Band13	5MHz	QPSK	23255	12RB#6	23.32	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.31	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.30	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.30	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.34	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.32	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.15	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.15	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.19	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.19	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.29	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.43	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.19	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.14	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.19	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.13	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.22	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.19	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.21	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.17	PASS





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	3.98	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.84	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.29	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.98	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.06	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.87	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.37	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.05	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.36	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.12	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.41	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.12	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.94	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.87	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.27	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.03	13	PASS





Test Graphs



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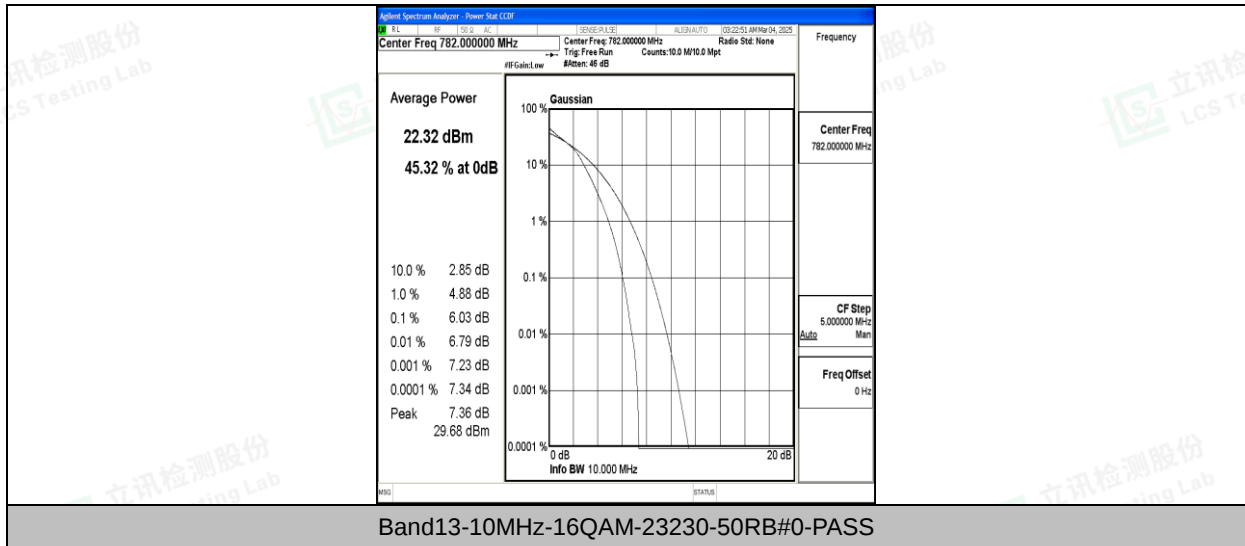


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M.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4976	4.973	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4963	4.926	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4987	4.973	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5012	5.675	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5023	4.985	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5165	4.981	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9860	9.888	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9464	9.803	PASS





Test Graphs



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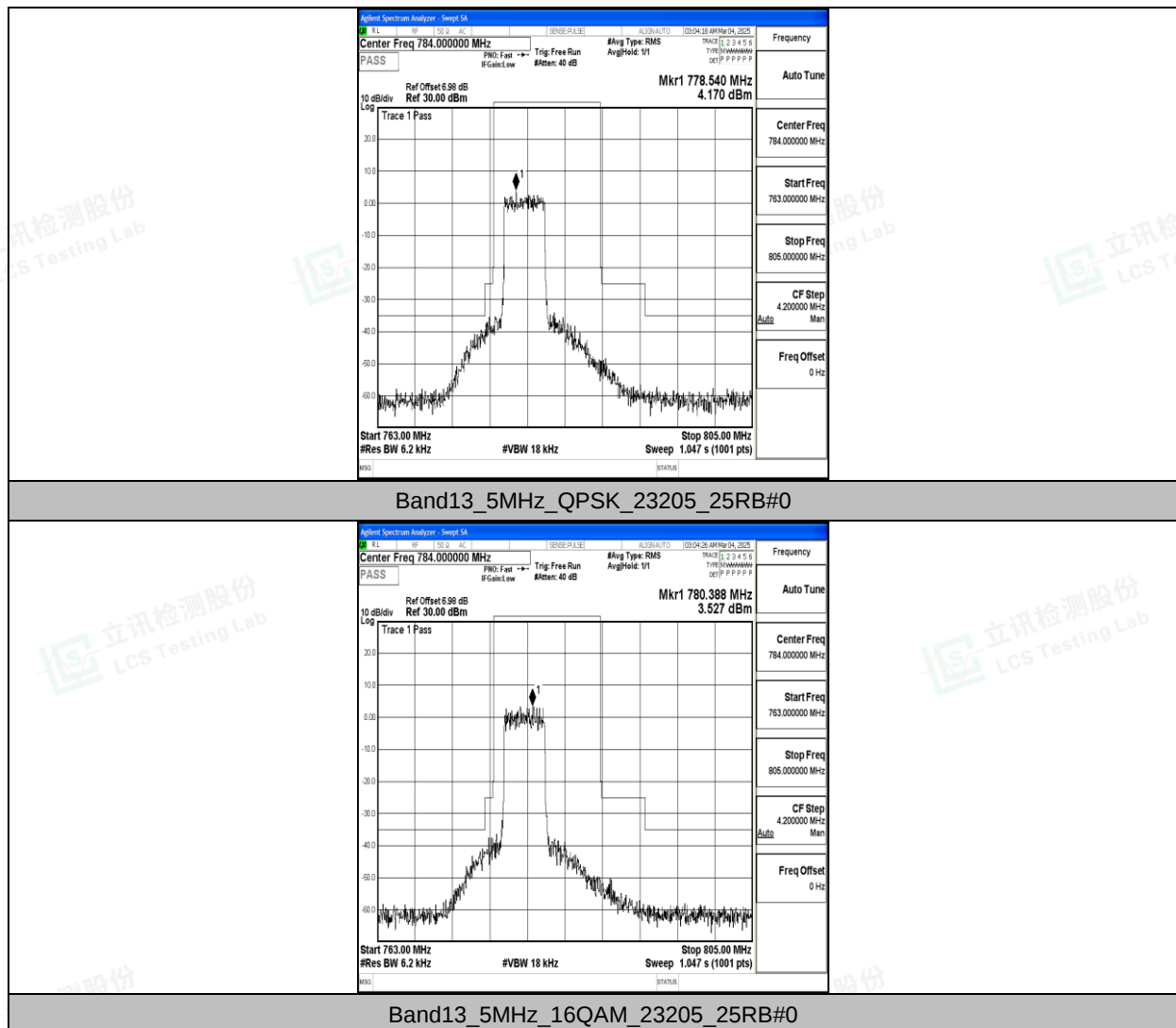


M.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.63	-39.37	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.76	-41.06	PASS
Band13	5MHz	QPSK	23255	25RB#0	789.08	-36.71	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.75	-38.55	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.72	-41.39	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.68	-42.19	PASS

Test Graphs

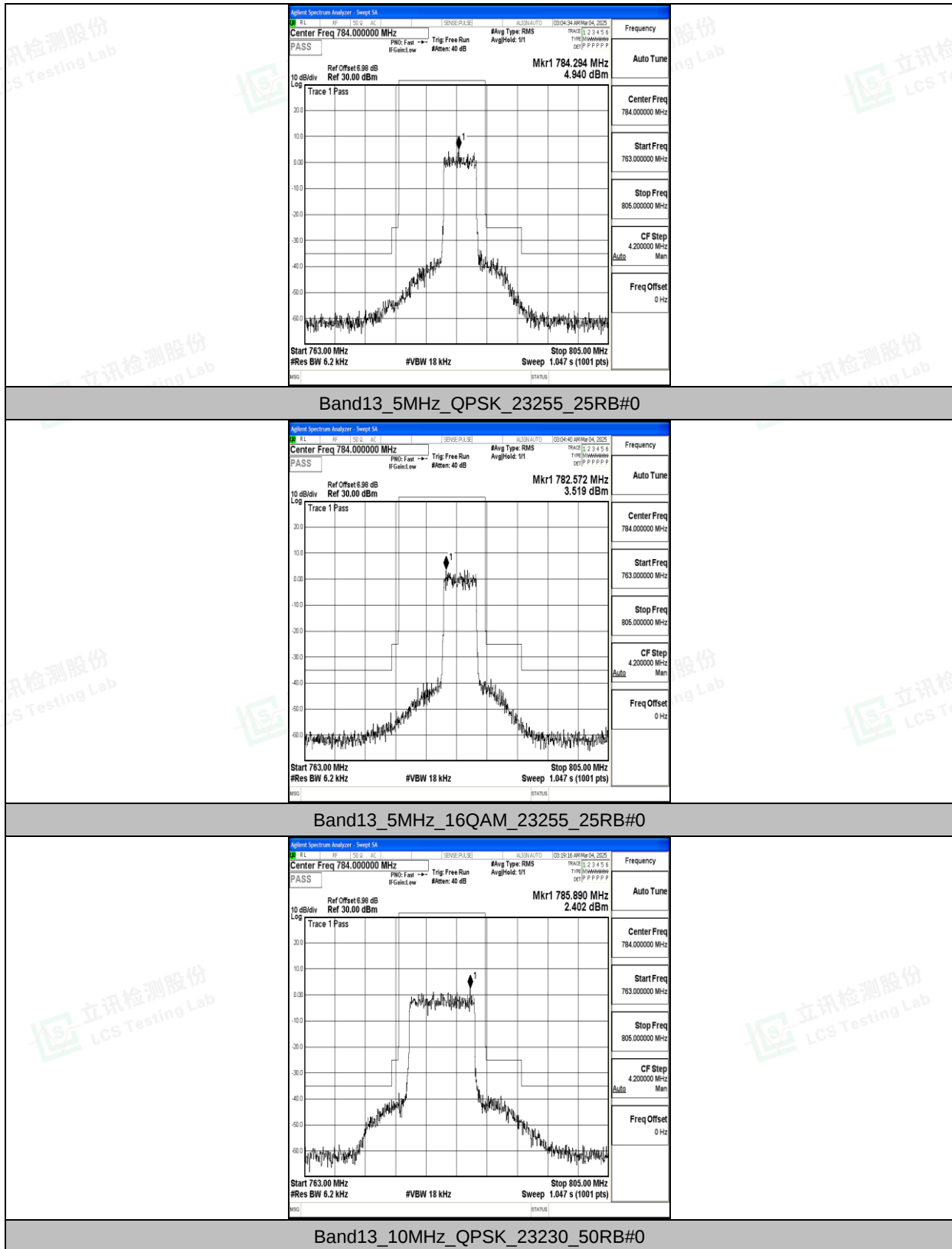


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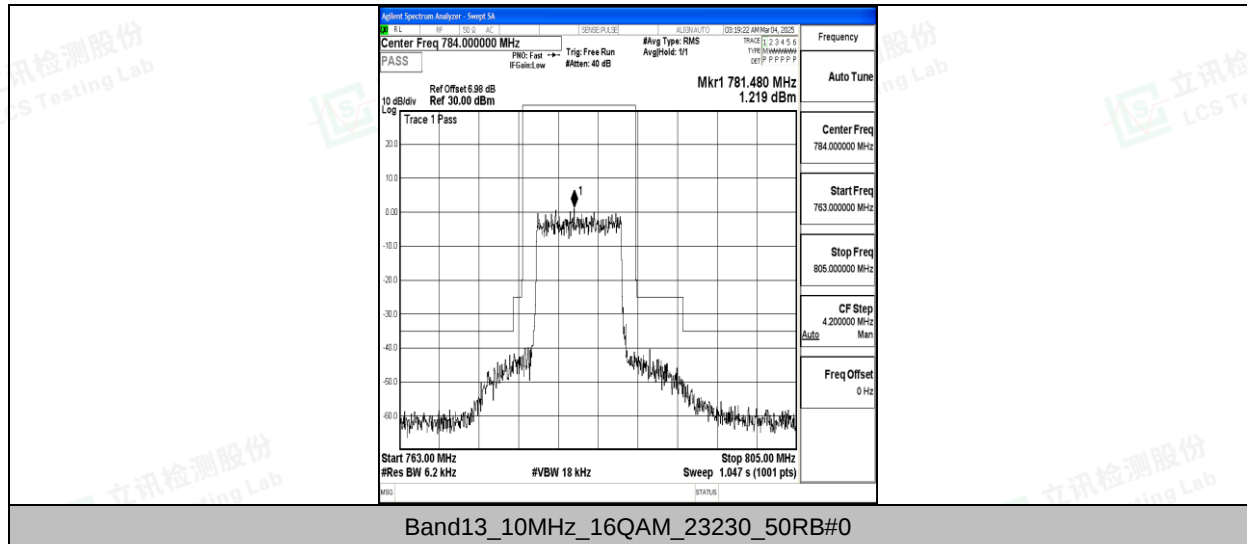


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M.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-56.92	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-47.35	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-52.45	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-36.10	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-34.85	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-55.83	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-43.21	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-52.48	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-36.41	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.10	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.47	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-49.43	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-53.06	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-35.15	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-58.34	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-47.42	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.33	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-35.09	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.06	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-55.90	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-46.00	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.67	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-35.39	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.72	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-56.40	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-46.44	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.91	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-33.72	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.54	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-62.23	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-47.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-51.71	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-34.56	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.55	PASS



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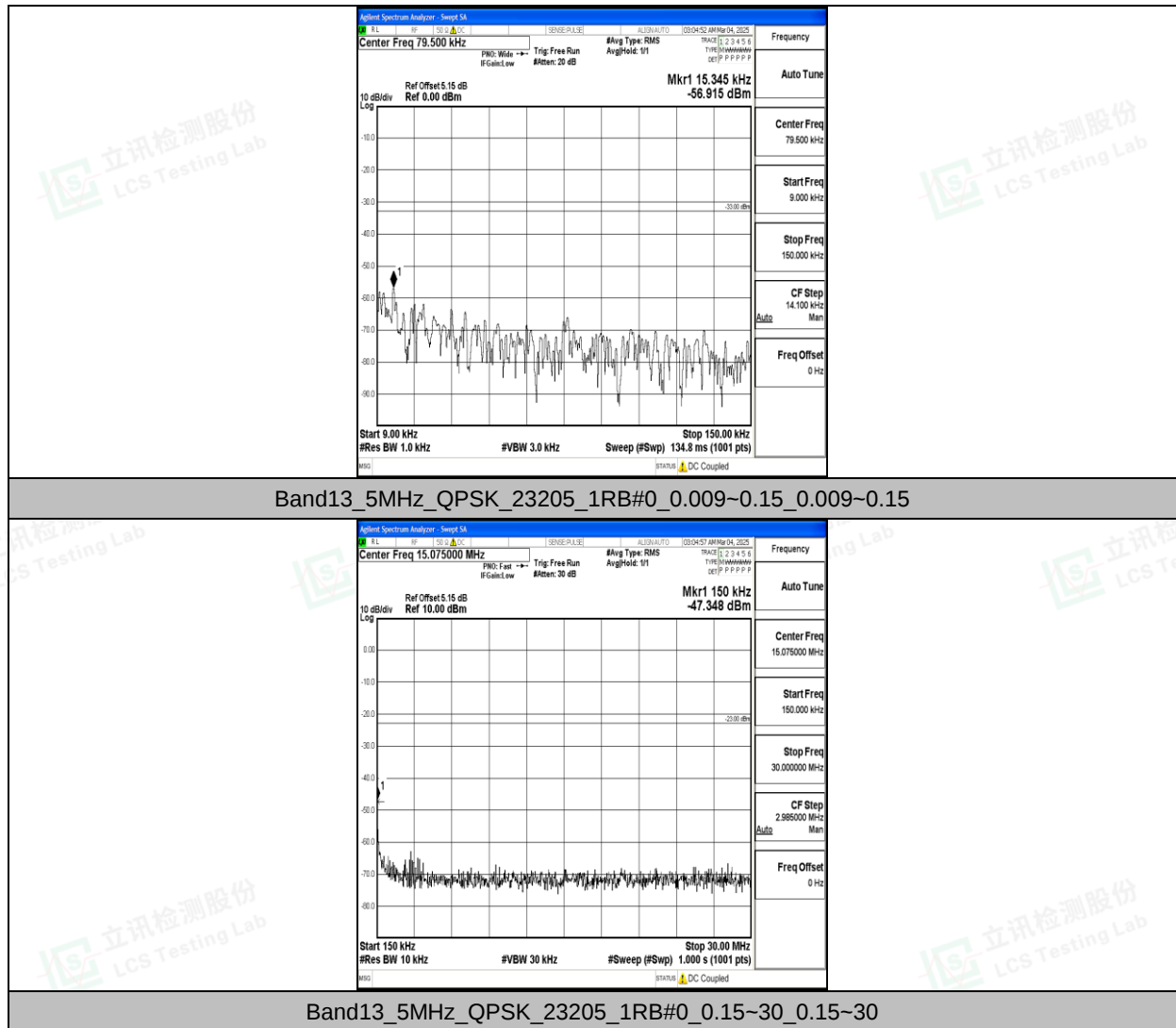
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Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-57.63	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-43.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.97	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-36.28	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.05	PASS

Test Graphs

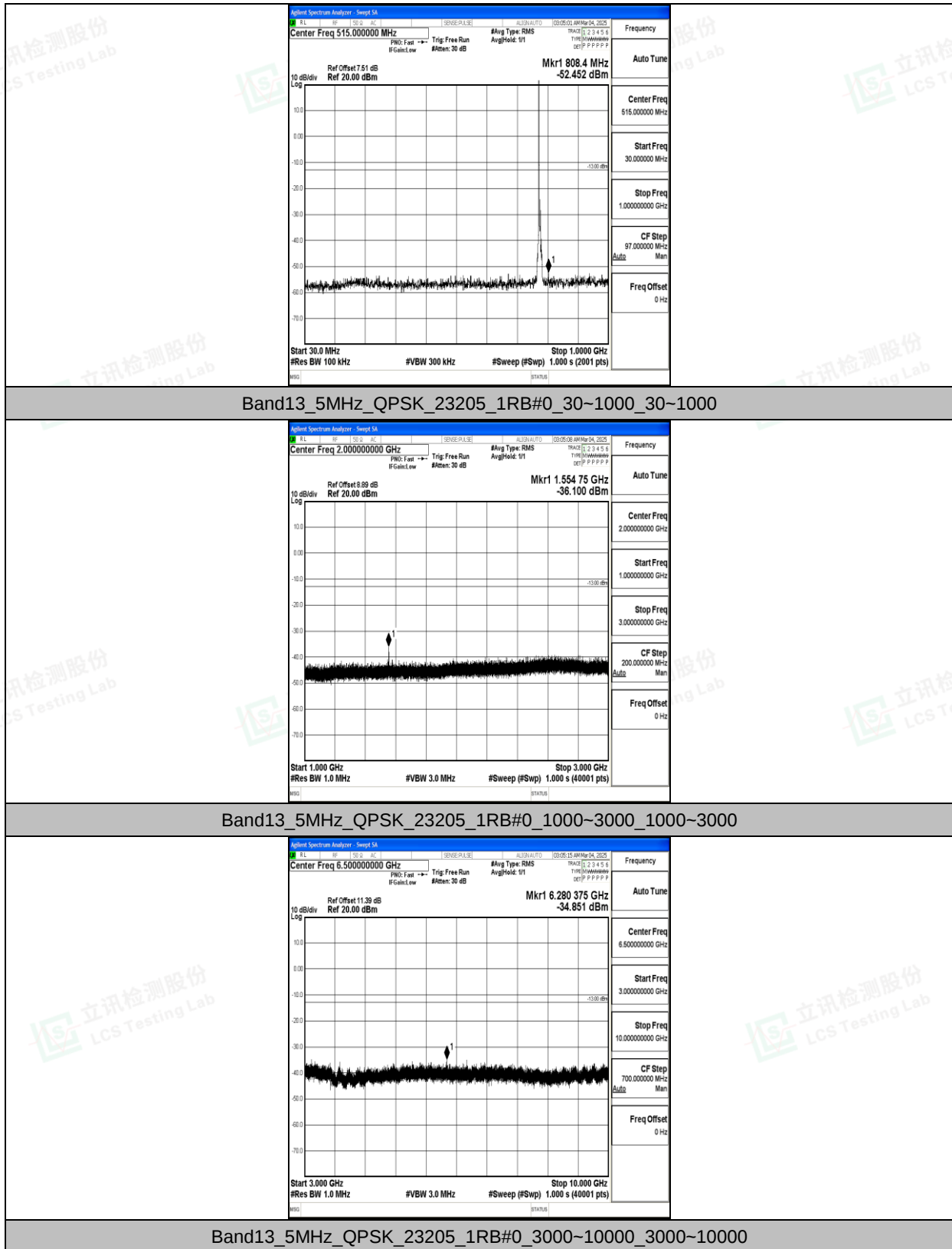


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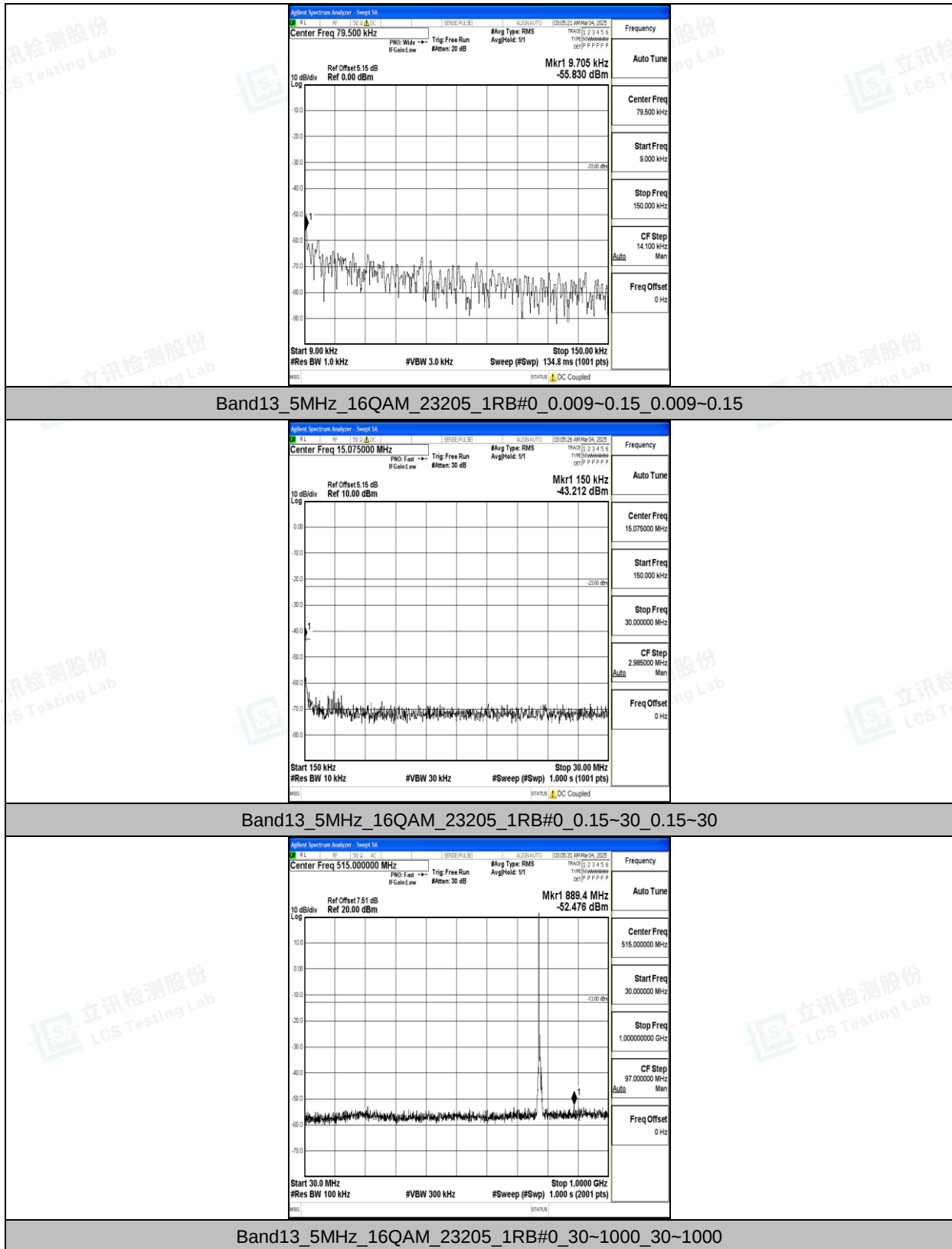


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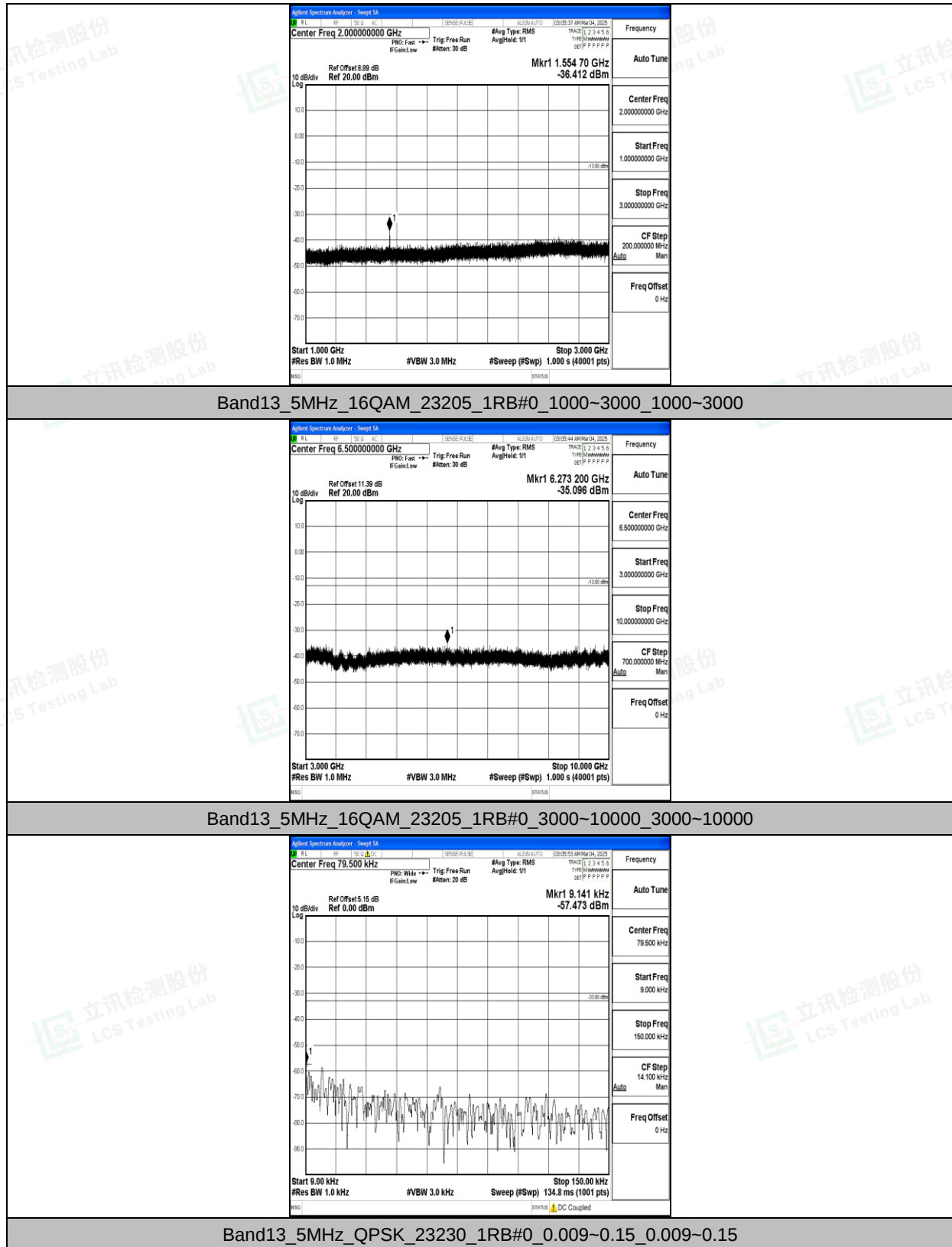


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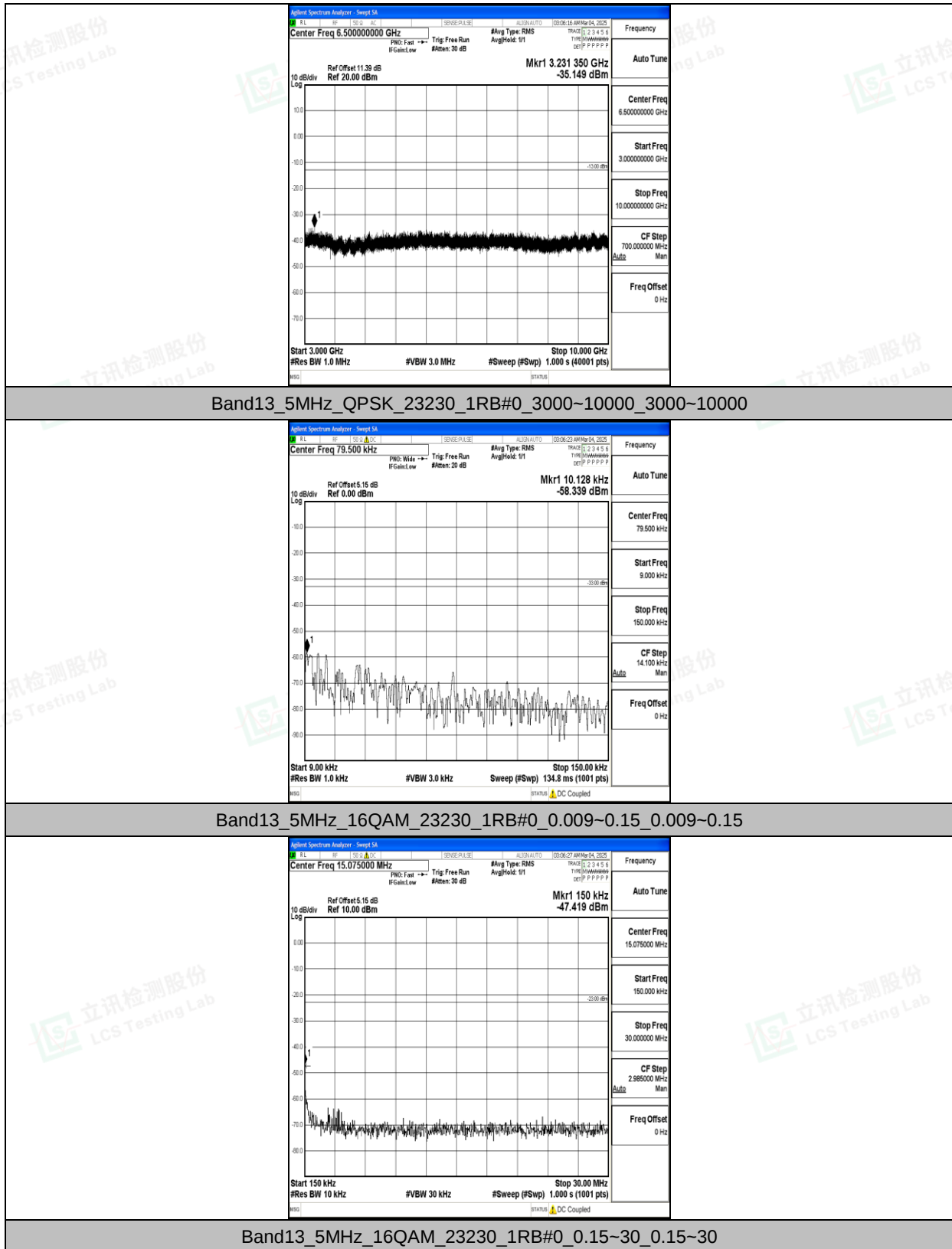


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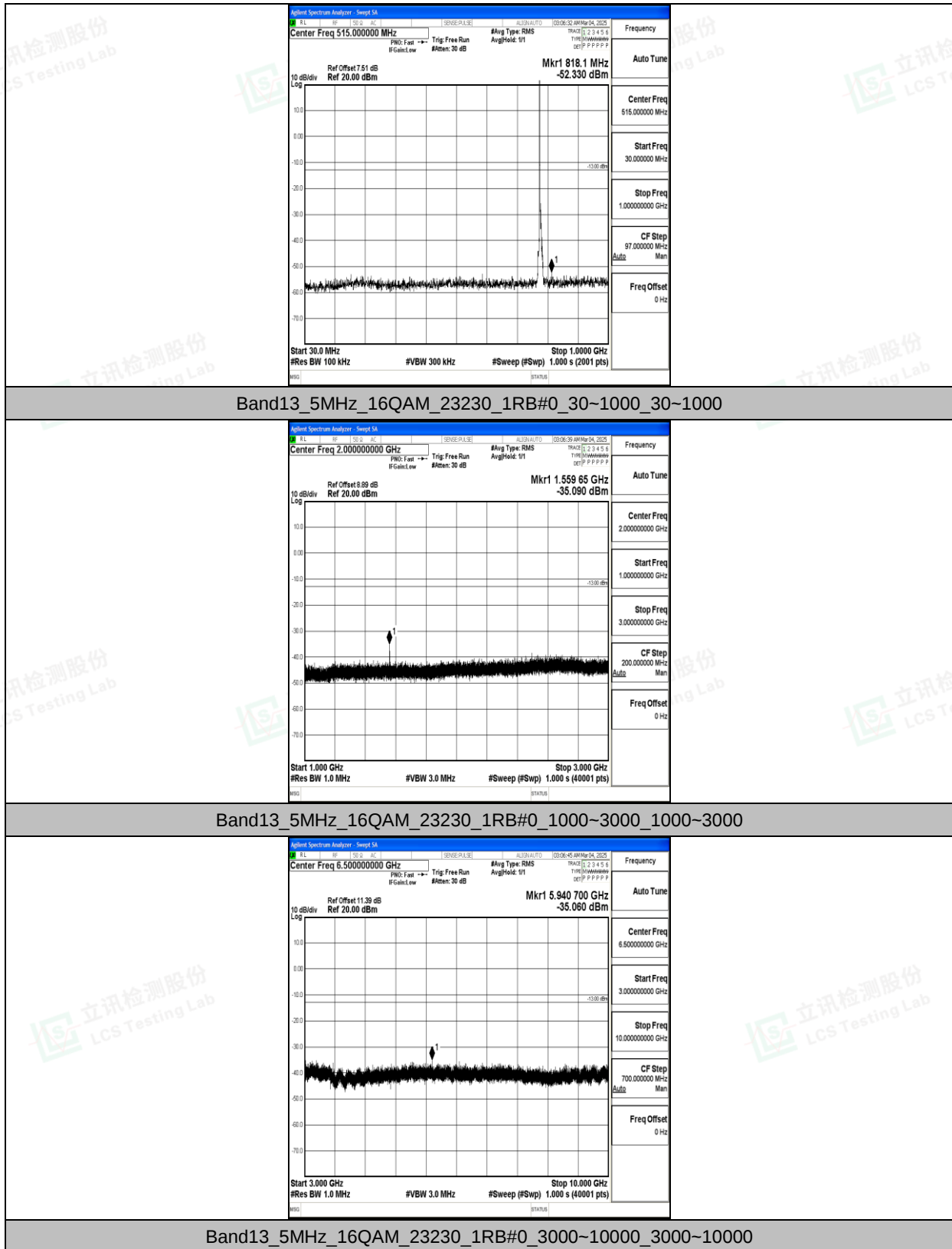


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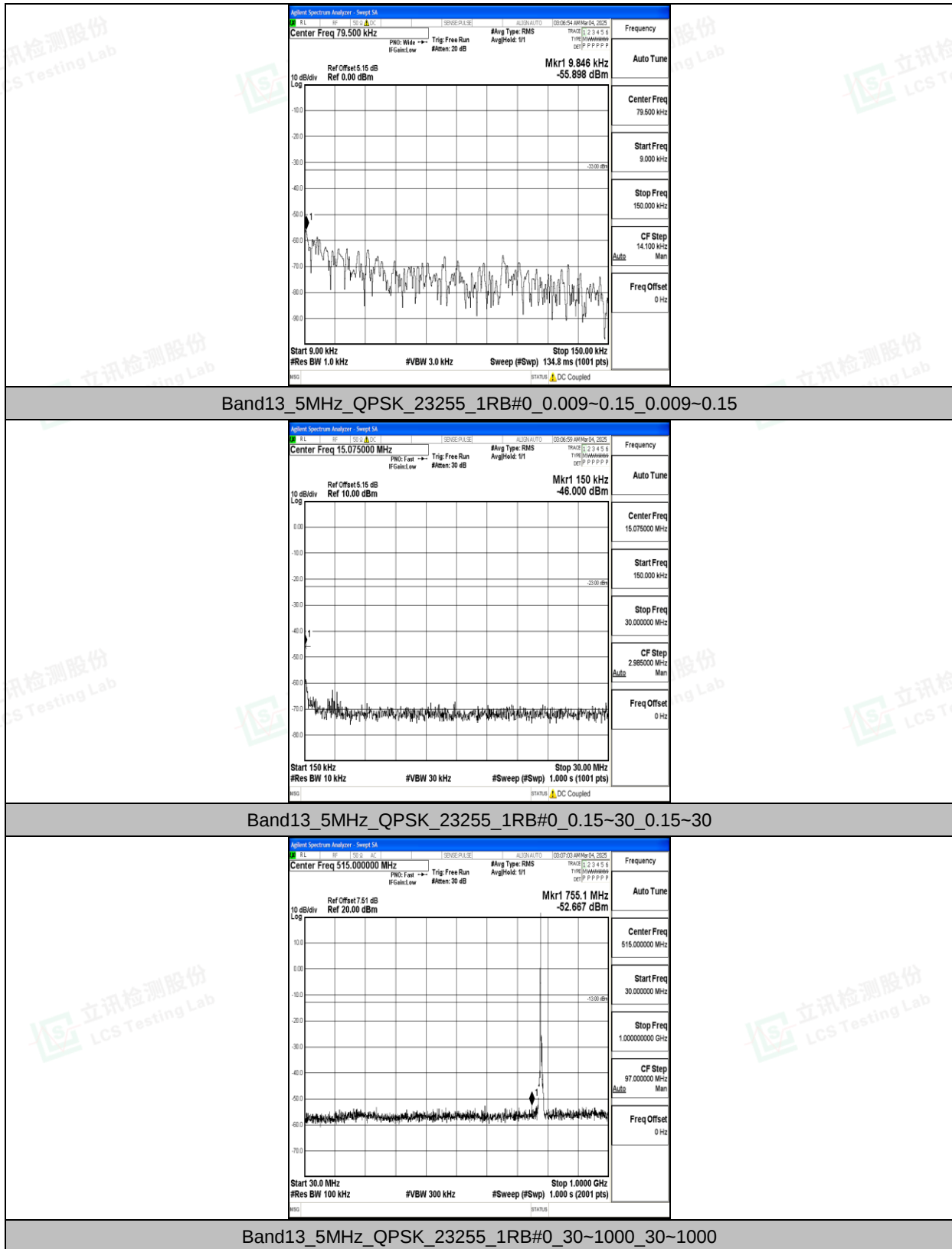


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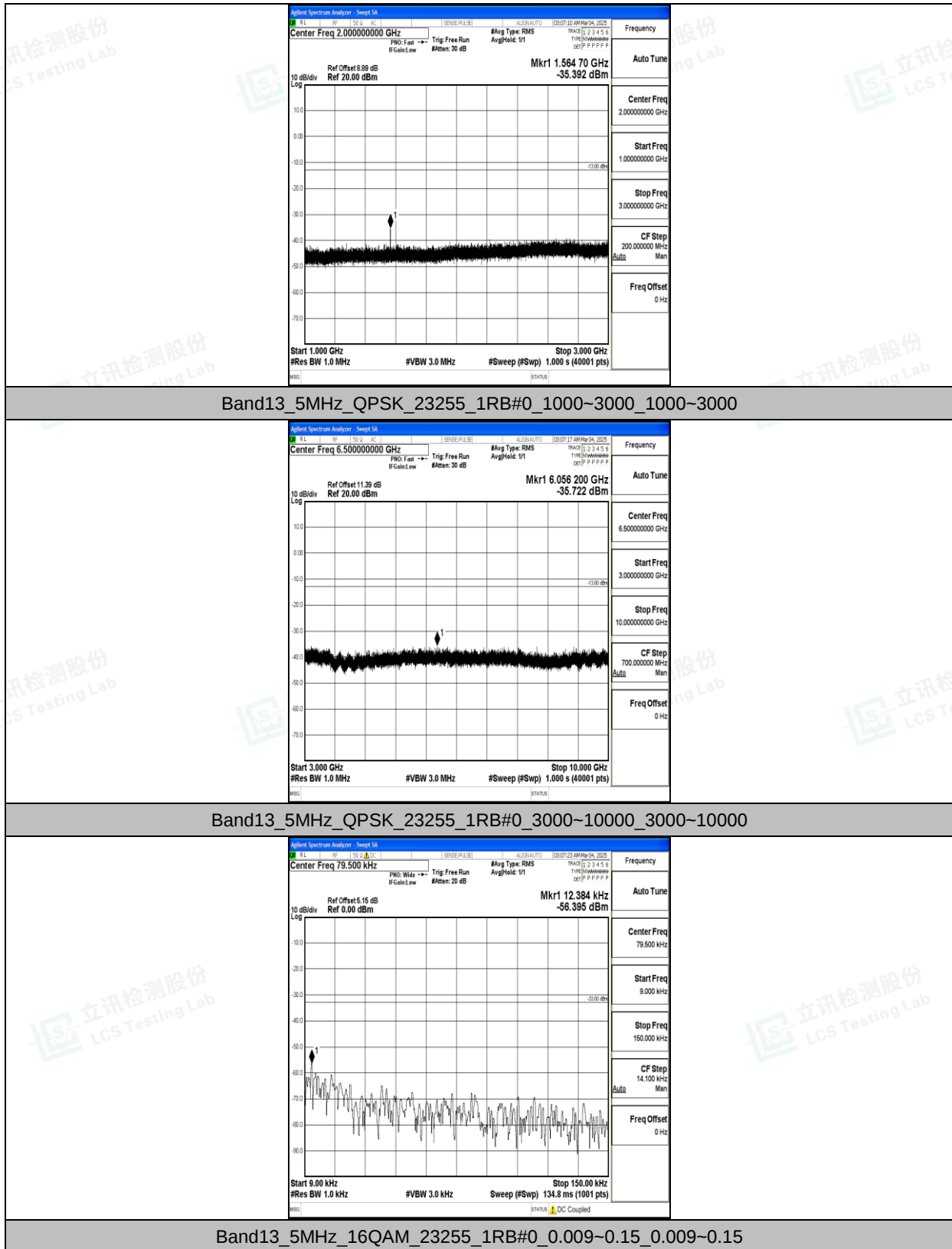


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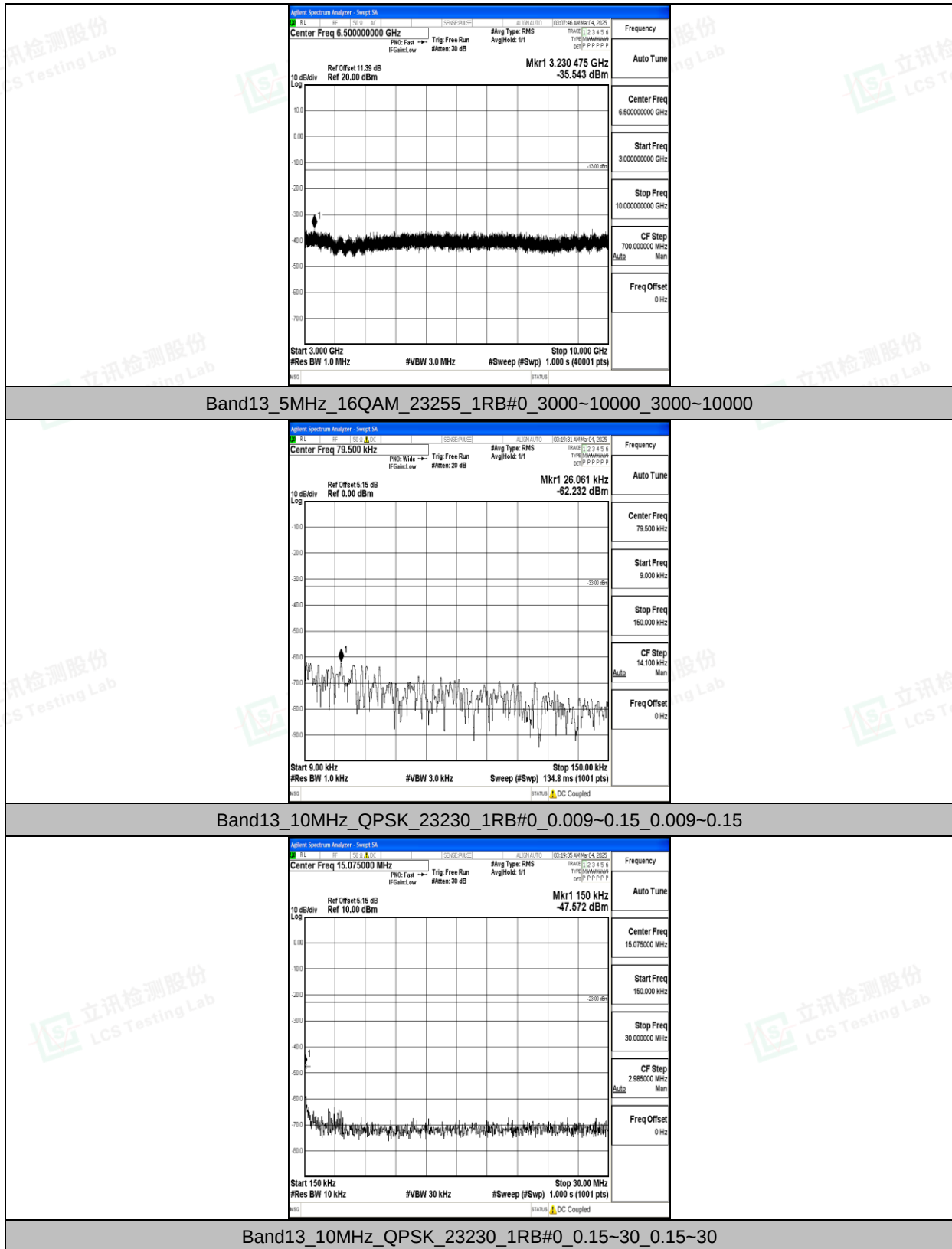


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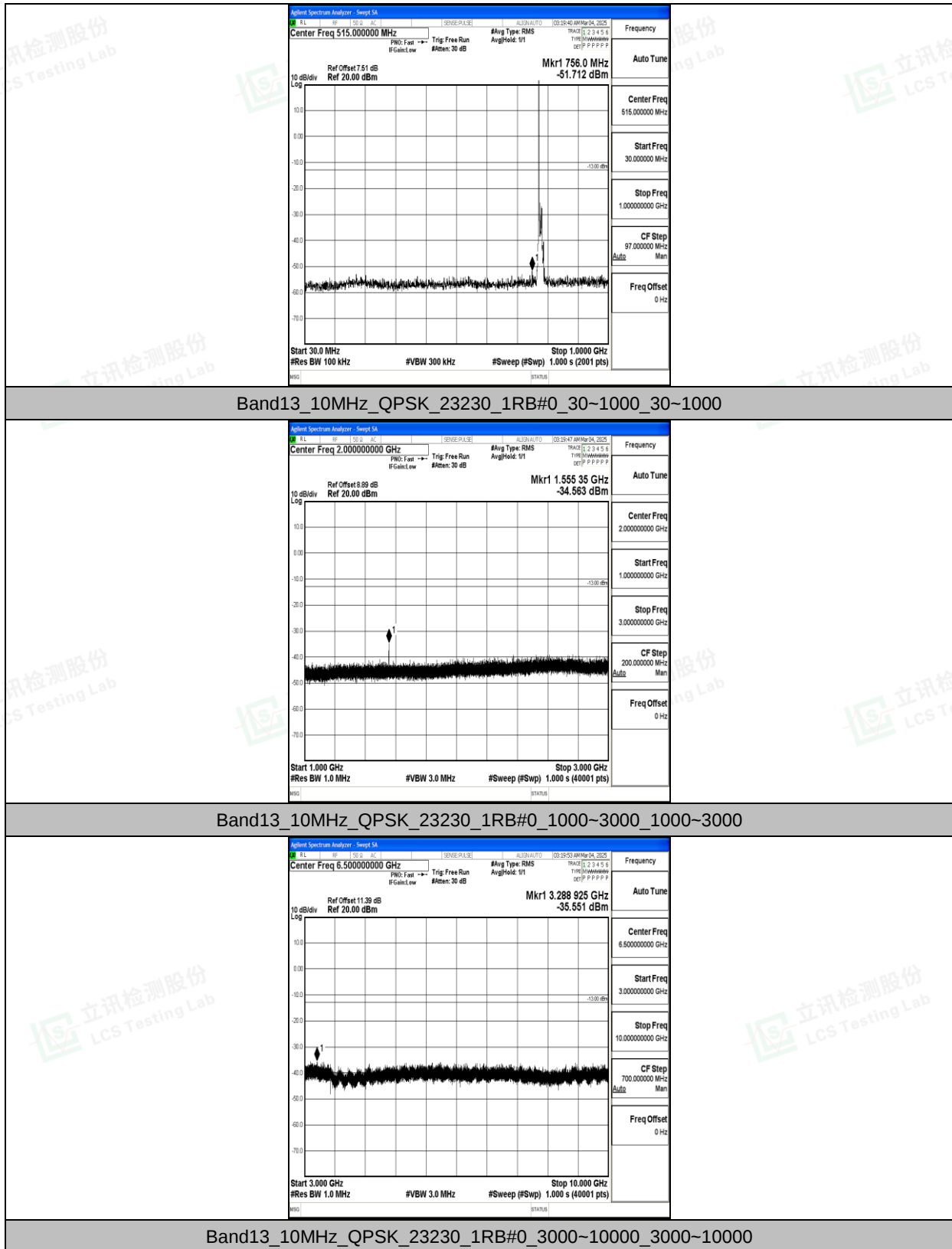


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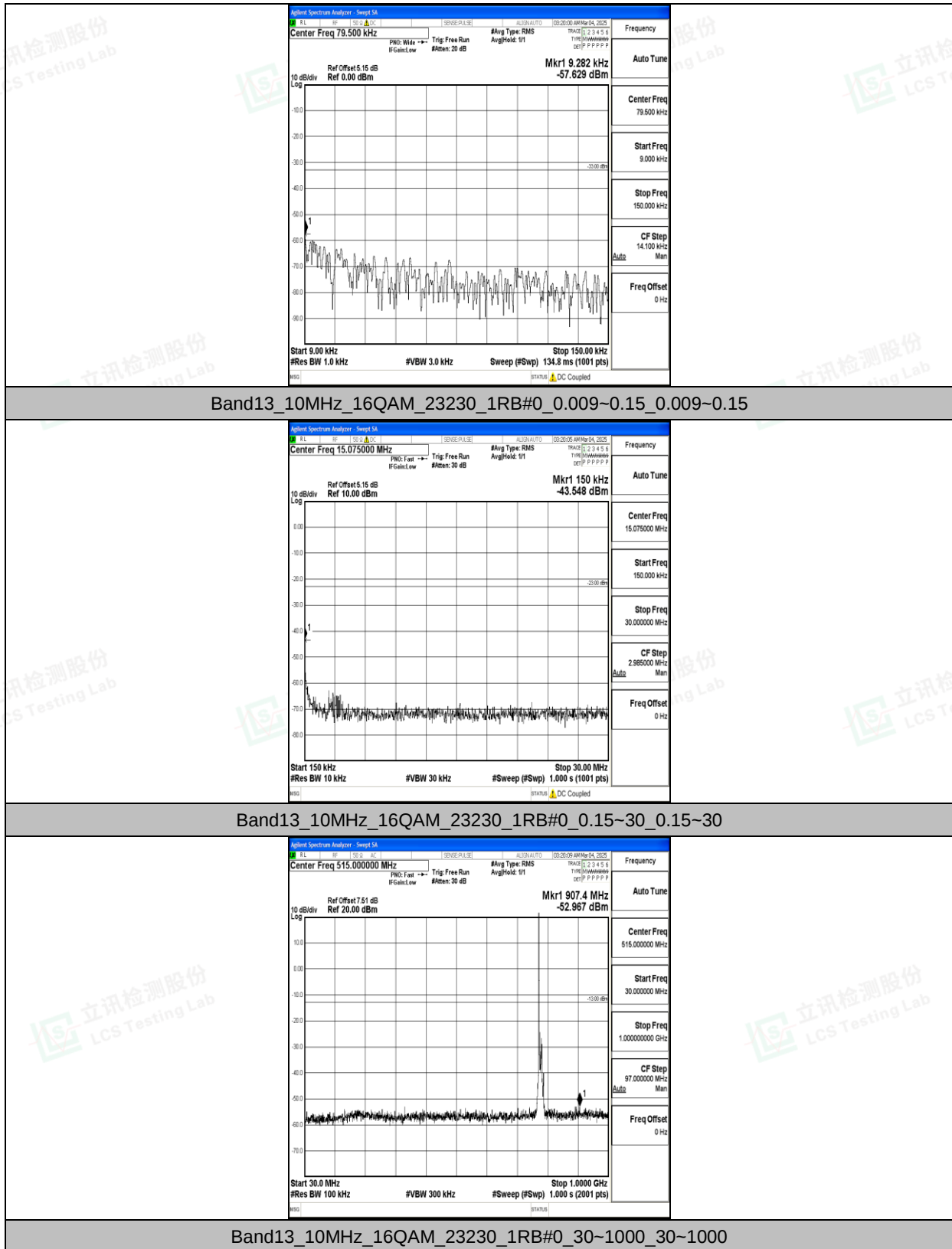


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