



Appendix G Test Data for E-UTRA Band 13

Product Name: Global 4G Wifi Router

Test Model: TD20

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Andre Tan
Supervised by:	Nick Peng



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G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.98	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.14	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.90	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.01	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.75	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.27	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.59	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.18	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.58	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.27	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.56	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.26	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.66	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.99	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.69	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.88	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.59	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.91	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.52	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.23	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.66	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.23	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.66	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.08	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.49	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.24	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.97	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.17	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.88	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.95	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.05	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.00	PASS





Band13	5MHz	QPSK	23255	12RB#0	23.19	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.50	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.18	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.41	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.03	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.18	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.12	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.39	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.63	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.01	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.48	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.80	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.30	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.61	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.90	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.06	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.66	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.06	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.64	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.02	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.05	PASS





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

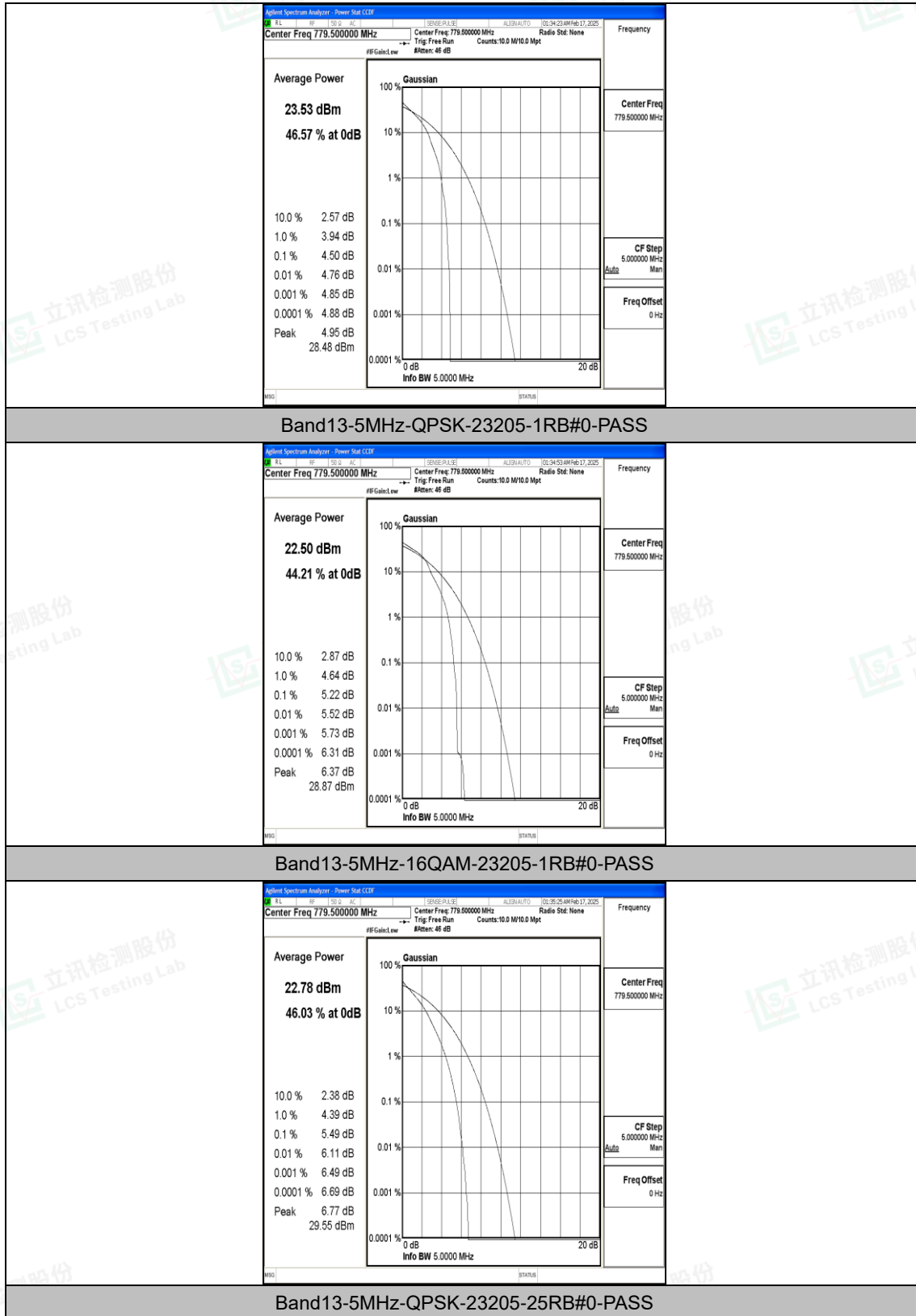
Test Result

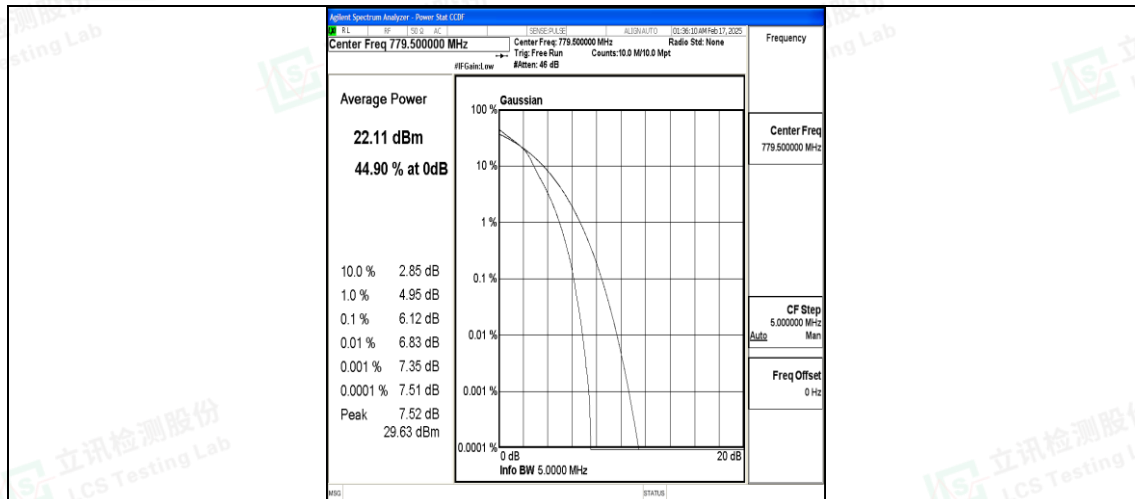
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.50	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.22	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.49	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.12	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.72	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.32	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.21	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.80	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.39	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.19	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.50	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.14	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.51	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.20	13	PASS



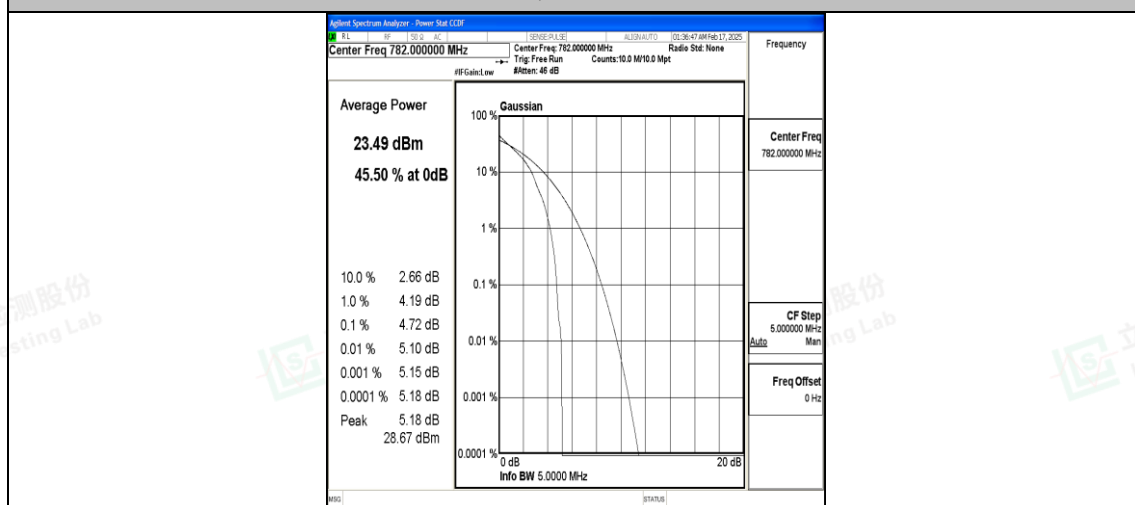


Test Graphs

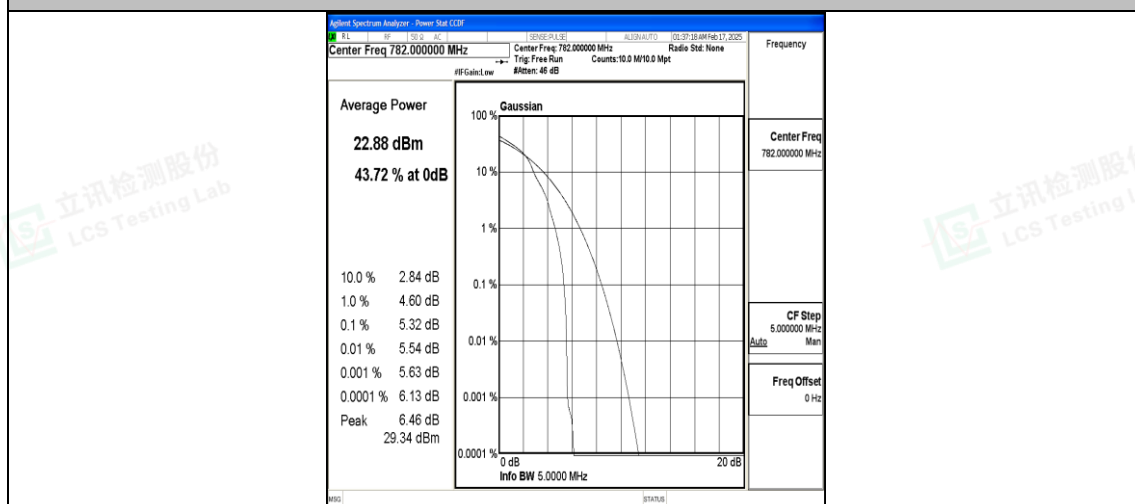




Band13-5MHz-16QAM-23205-25RB#0-PASS



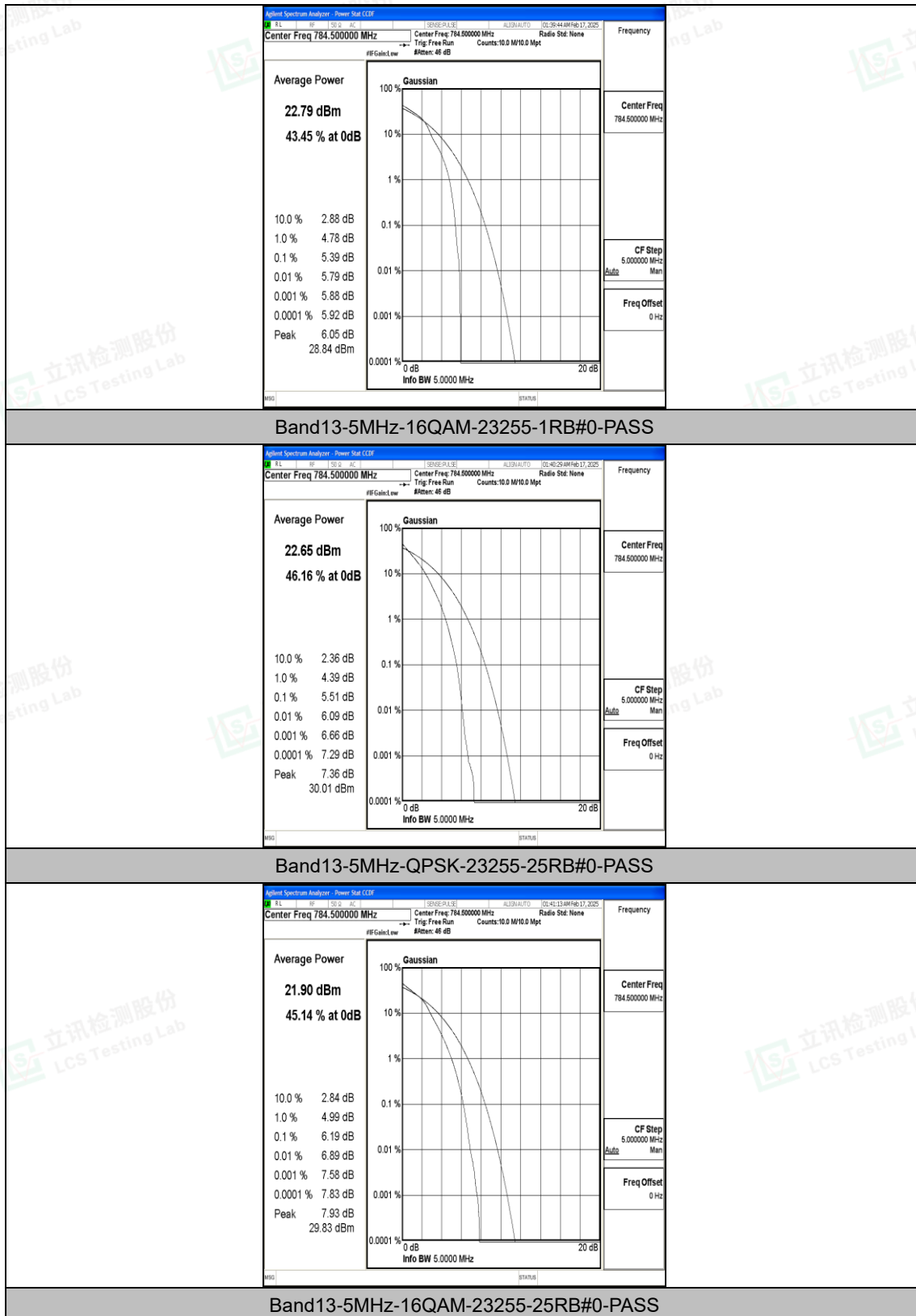
Band13-5MHz-QPSK-23230-1RB#0-PASS

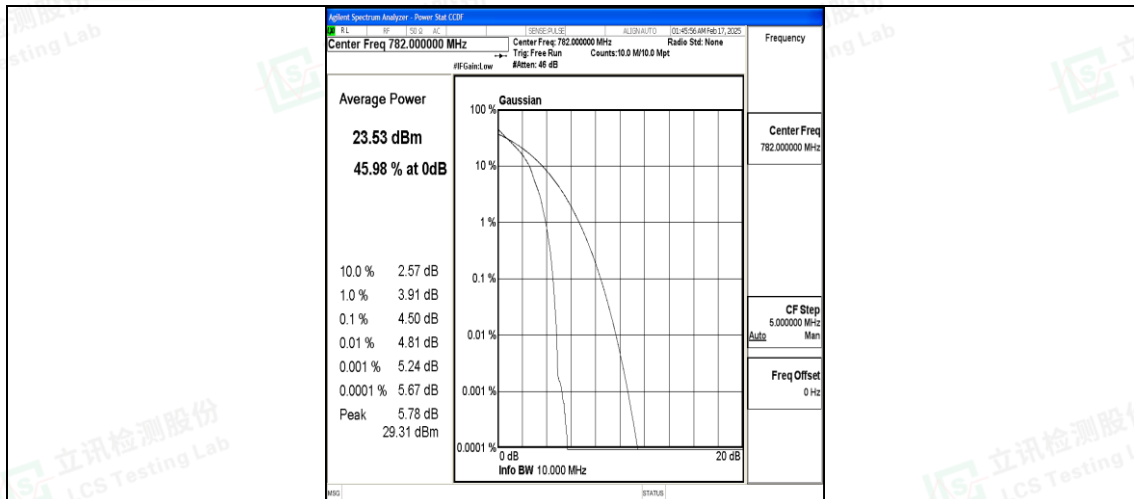


Band13-5MHz-16QAM-23230-1RB#0-PASS

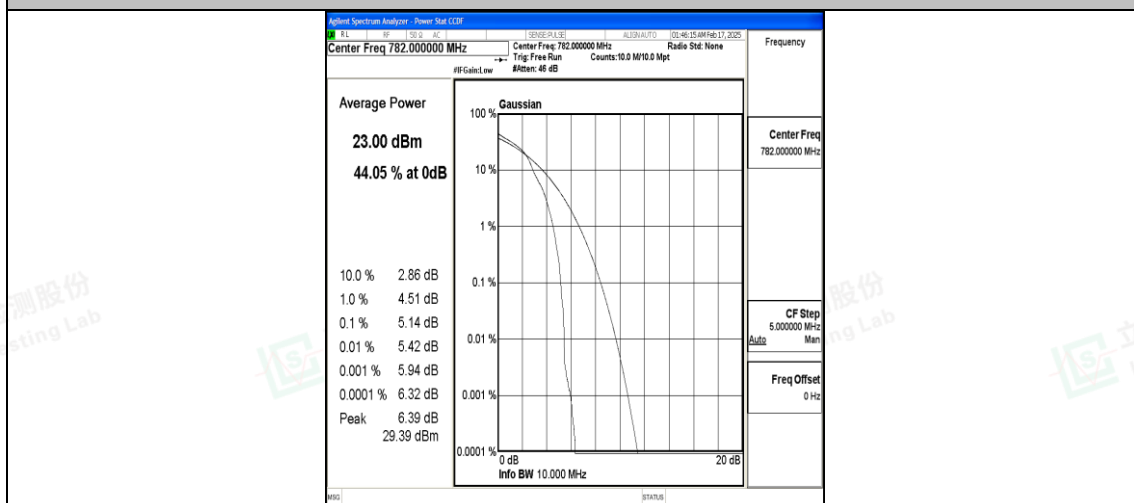




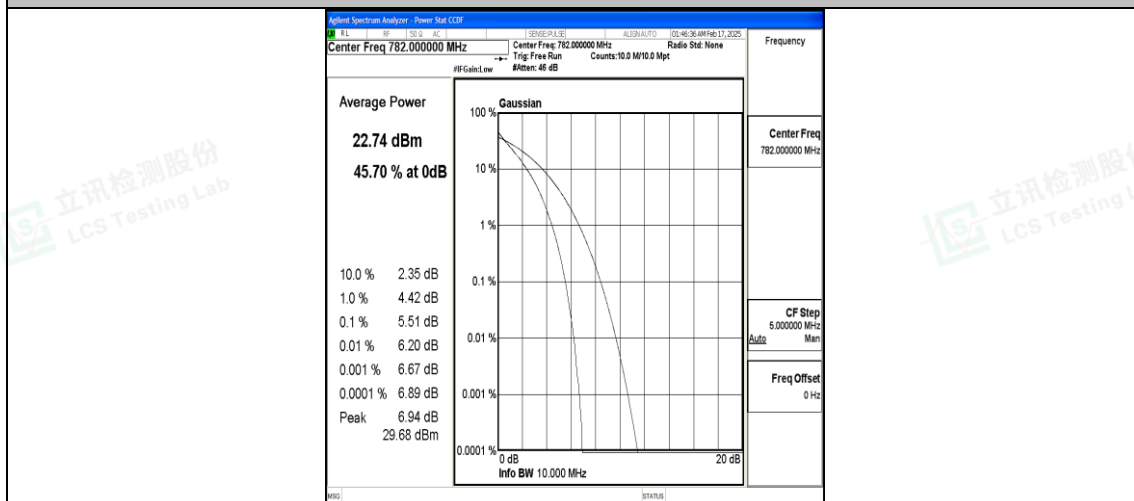




Band13-10MHz-QPSK-23230-1RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS



Band13-10MHz-QPSK-23230-50RB#0-PASS

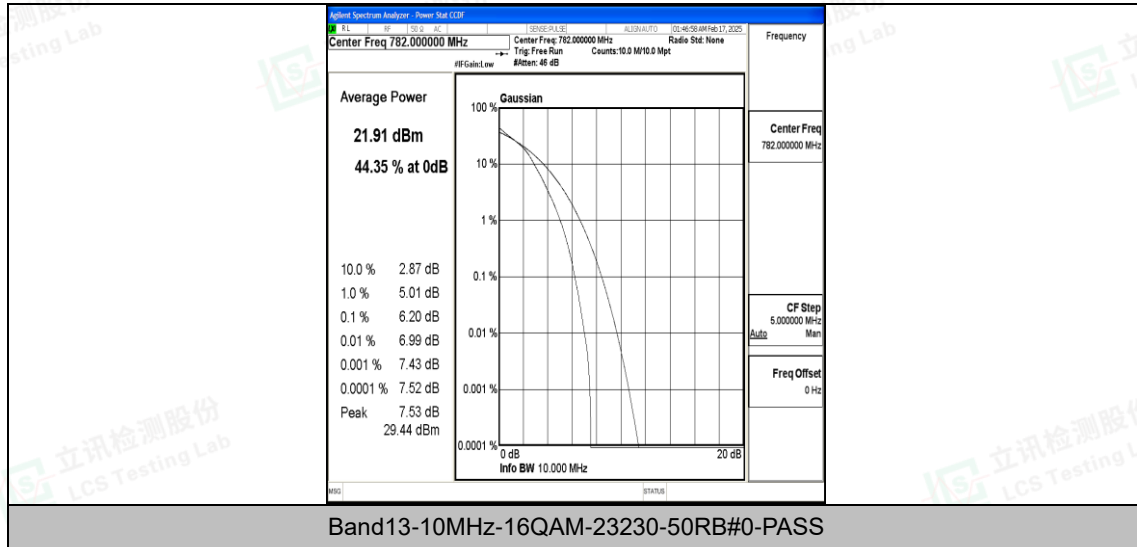


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G.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5251	5.322	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5200	5.291	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5161	5.496	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5209	5.347	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5159	5.173	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5488	5.435	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9940	9.930	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9899	10.01	PASS



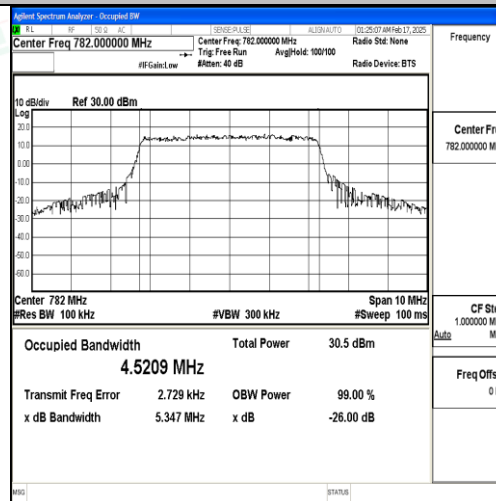


Test Graphs

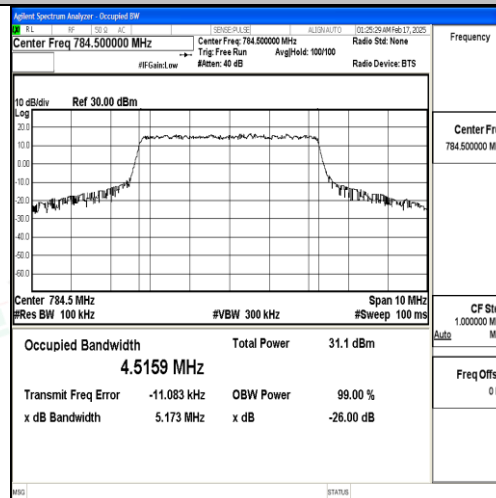




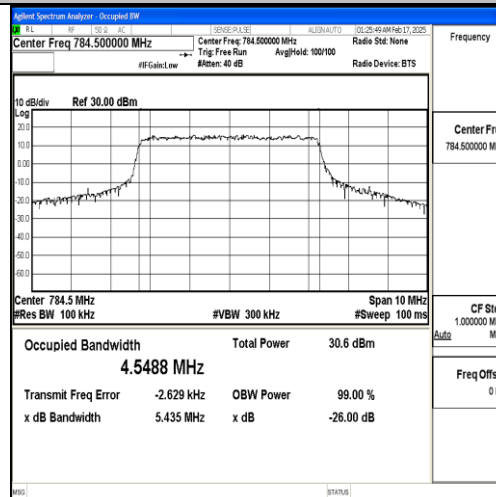
Band13-5MHz-QPSK-23230-25RB#0-PASS



Band13-5MHz-16QAM-23230-25RB#0-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS



Band13-5MHz-16QAM-23255-25RB#0-PASS





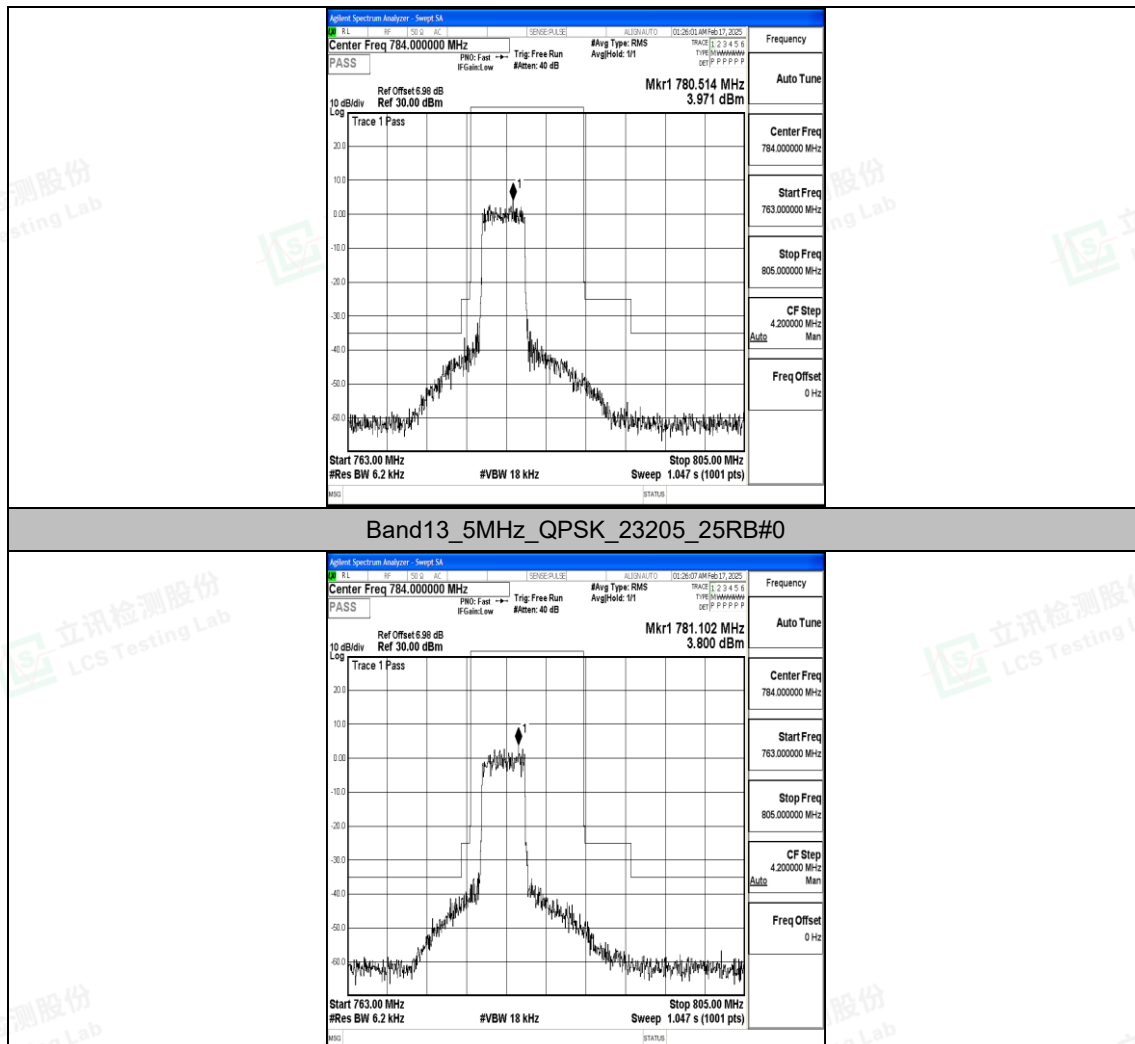


G.4 Band Edge

Test Result

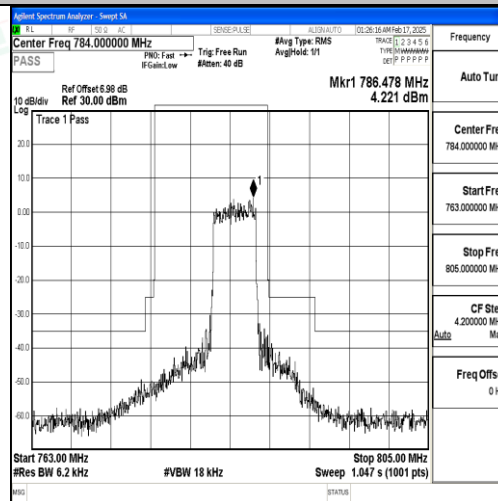
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.84	-41.65	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.84	-40.76	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.41	-38.62	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.45	-40.09	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.38	-42.19	PASS
Band13	10MHz	16QAM	23230	50RB#0	772.87	-42.13	PASS

Test Graphs

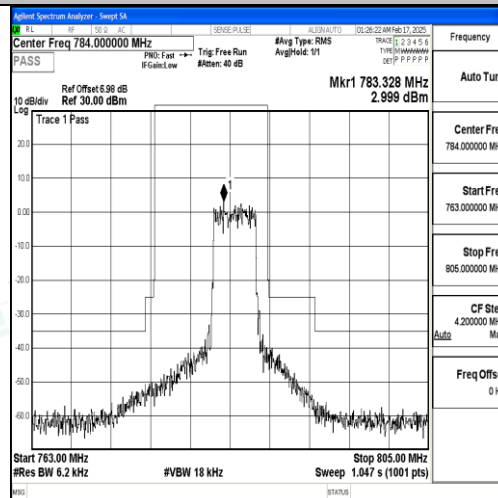




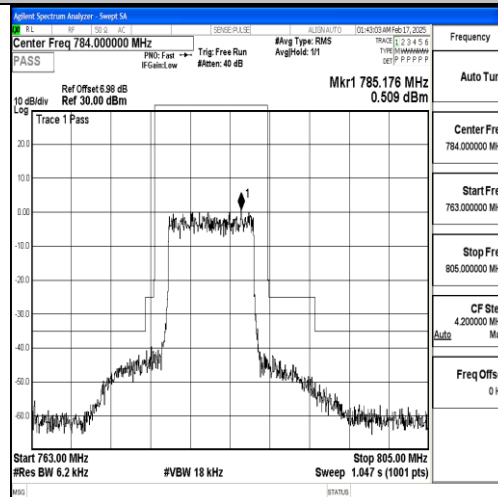
Band13_5MHz_16QAM_23205_25RB#0



Band13_5MHz_QPSK_23255_25RB#0

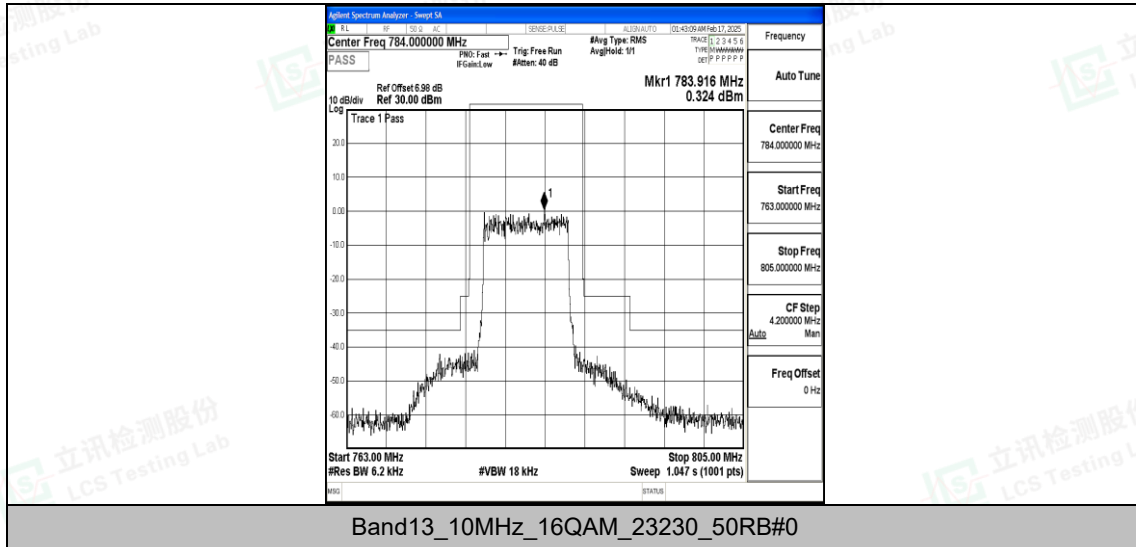


Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0







G.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	-57.44	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-45.57	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-46.67	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-36.34	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.04	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-55.71	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-48.27	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-49.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-35.72	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.17	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.86	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-42.97	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-36.51	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-34.93	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-58.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-44.54	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-48.57	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-37.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-53.64	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-44.61	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-43.89	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-36.28	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.39	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-57.79	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-46.88	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-49.84	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-36.72	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-34.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-55.86	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-48.30	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.49	PASS



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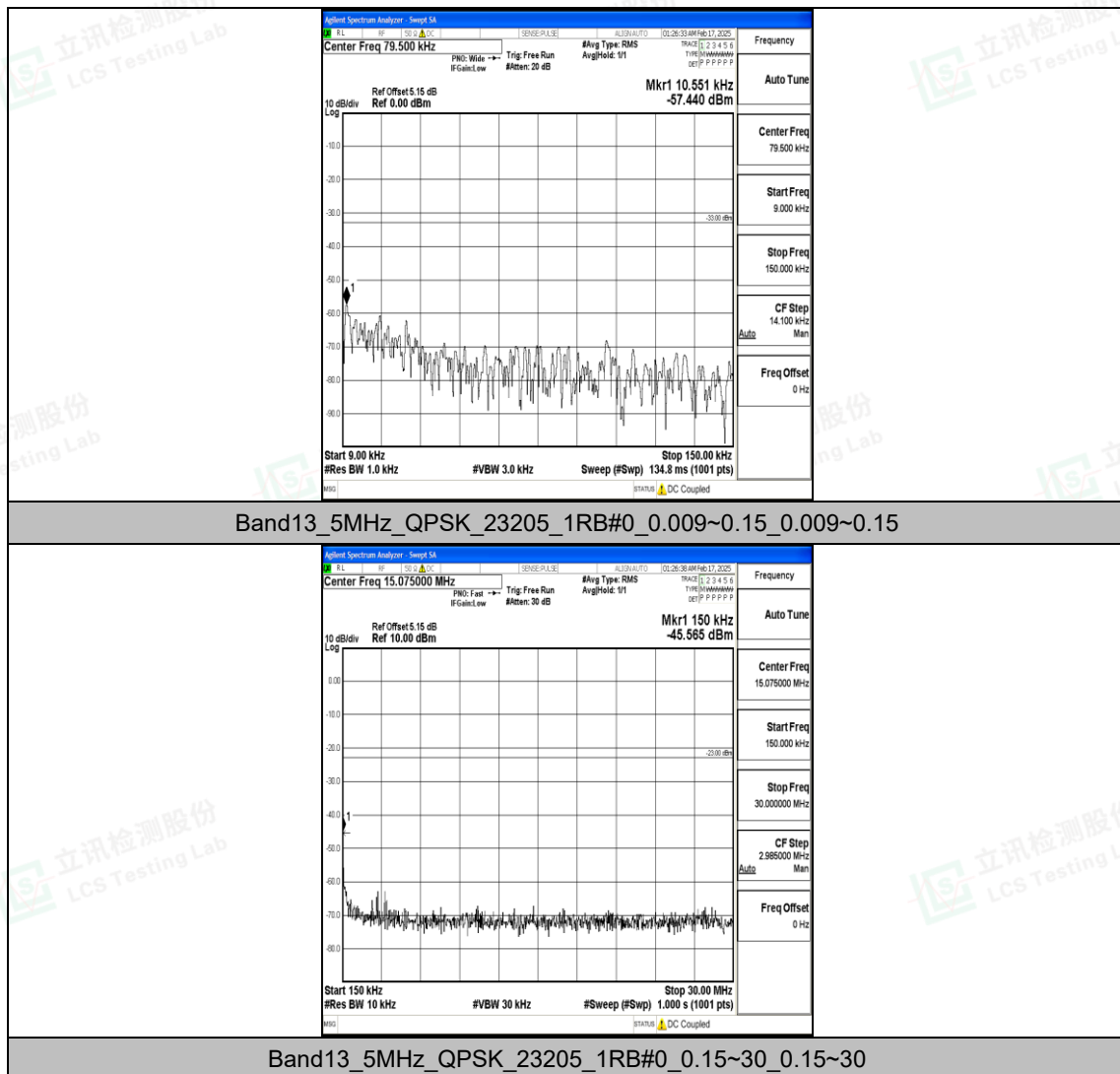
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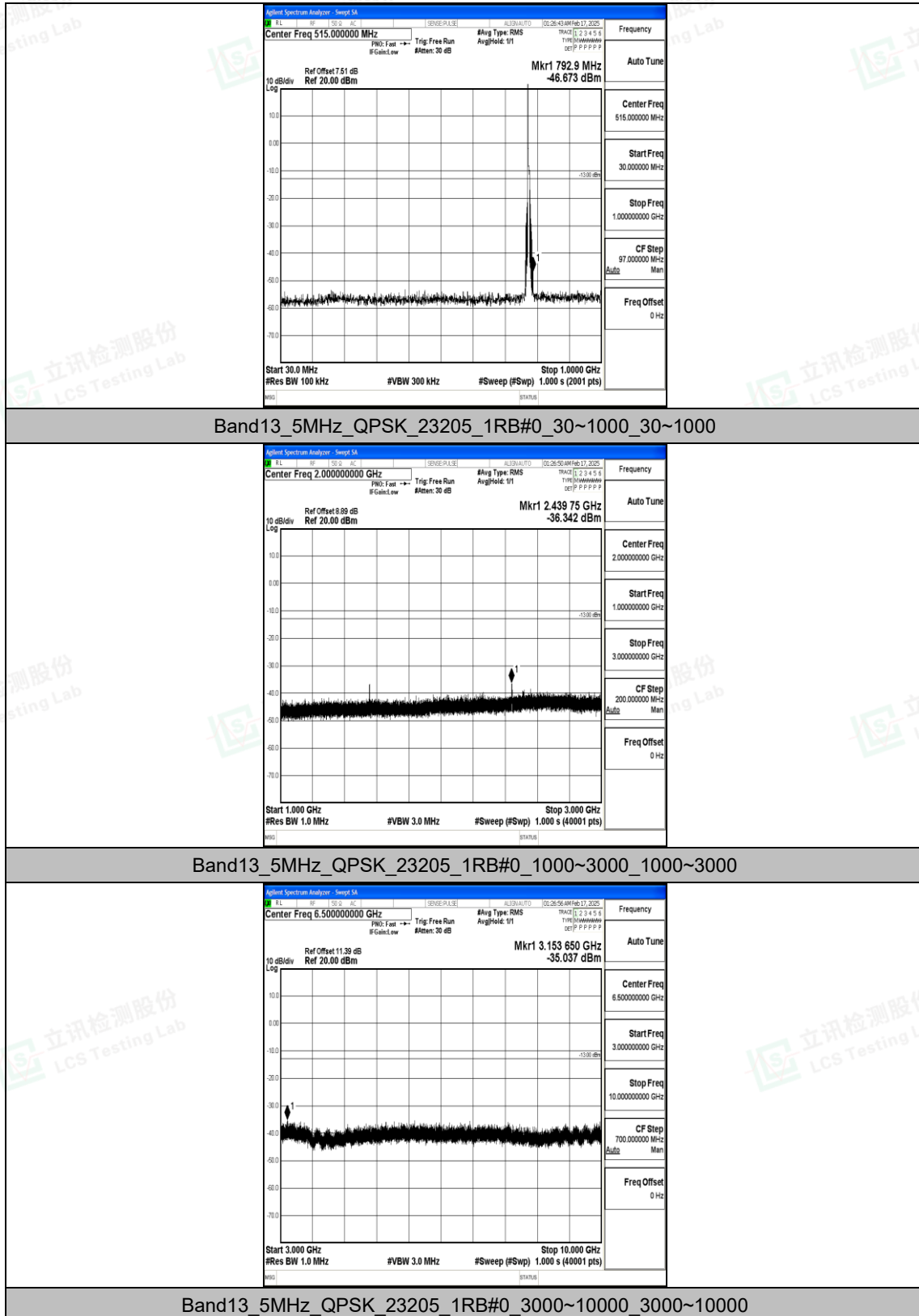
Scan code to check authenticity

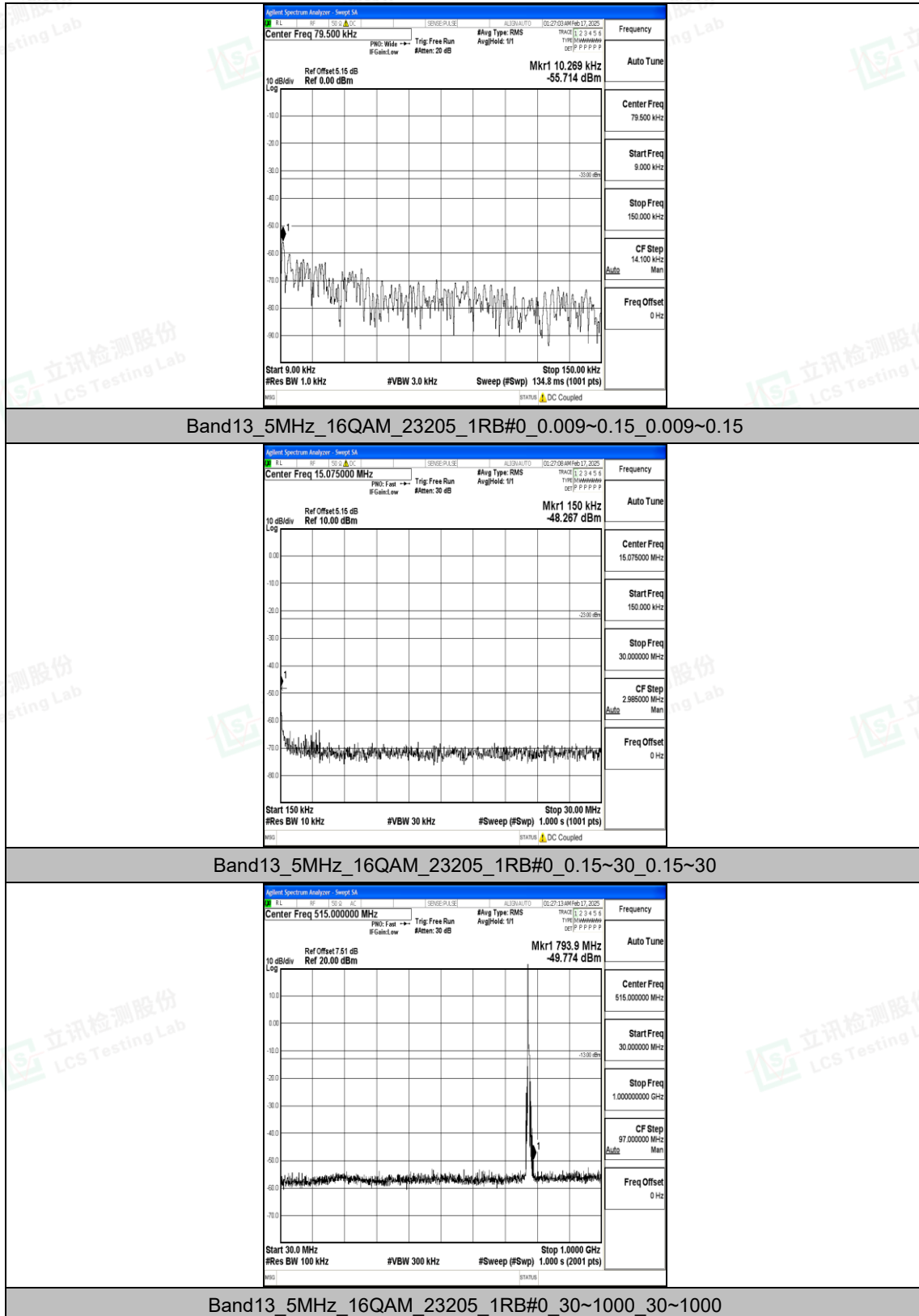


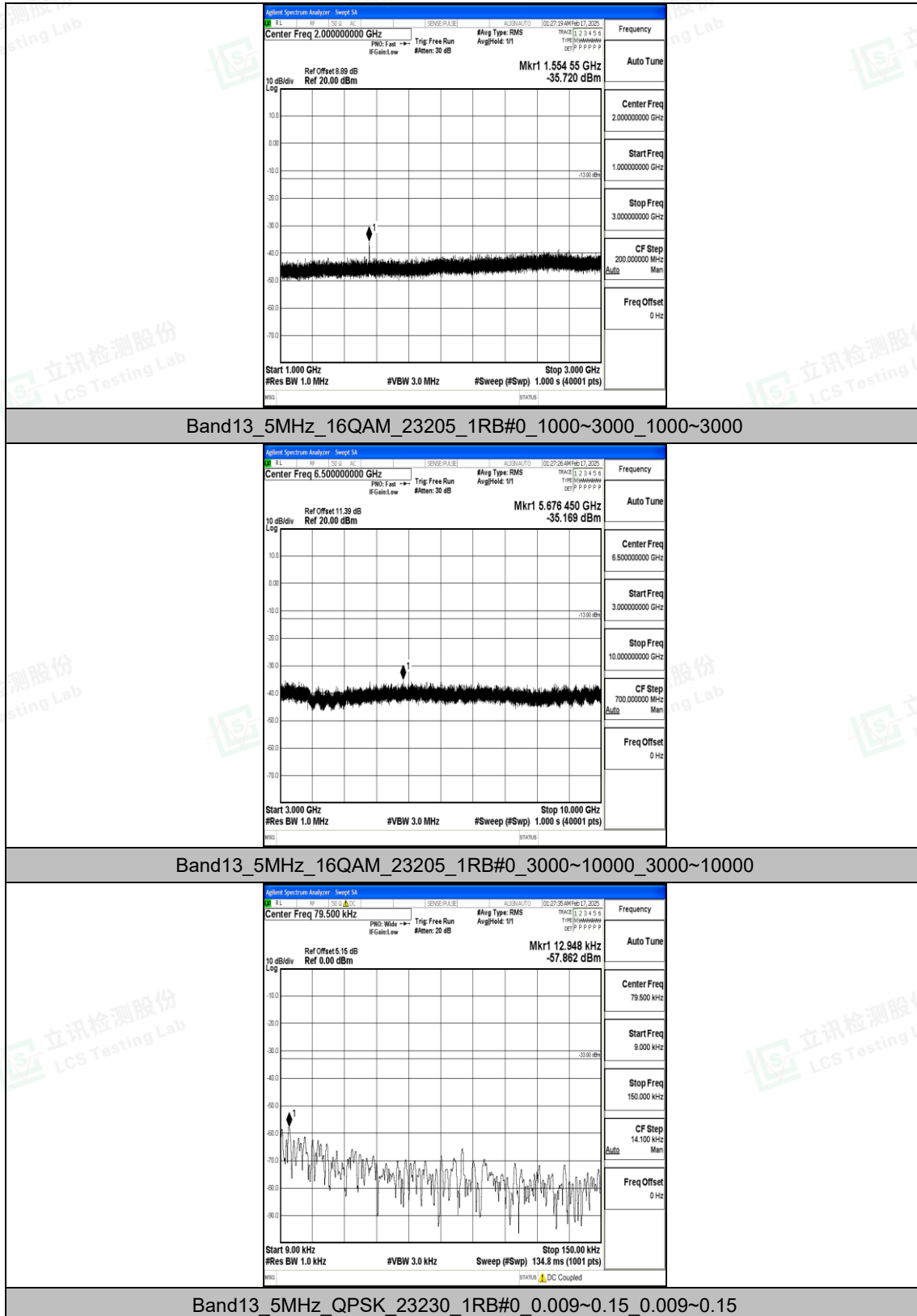
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-36.65	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.35	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-55.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-42.39	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-35.46	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.23	PASS

Test Graphs

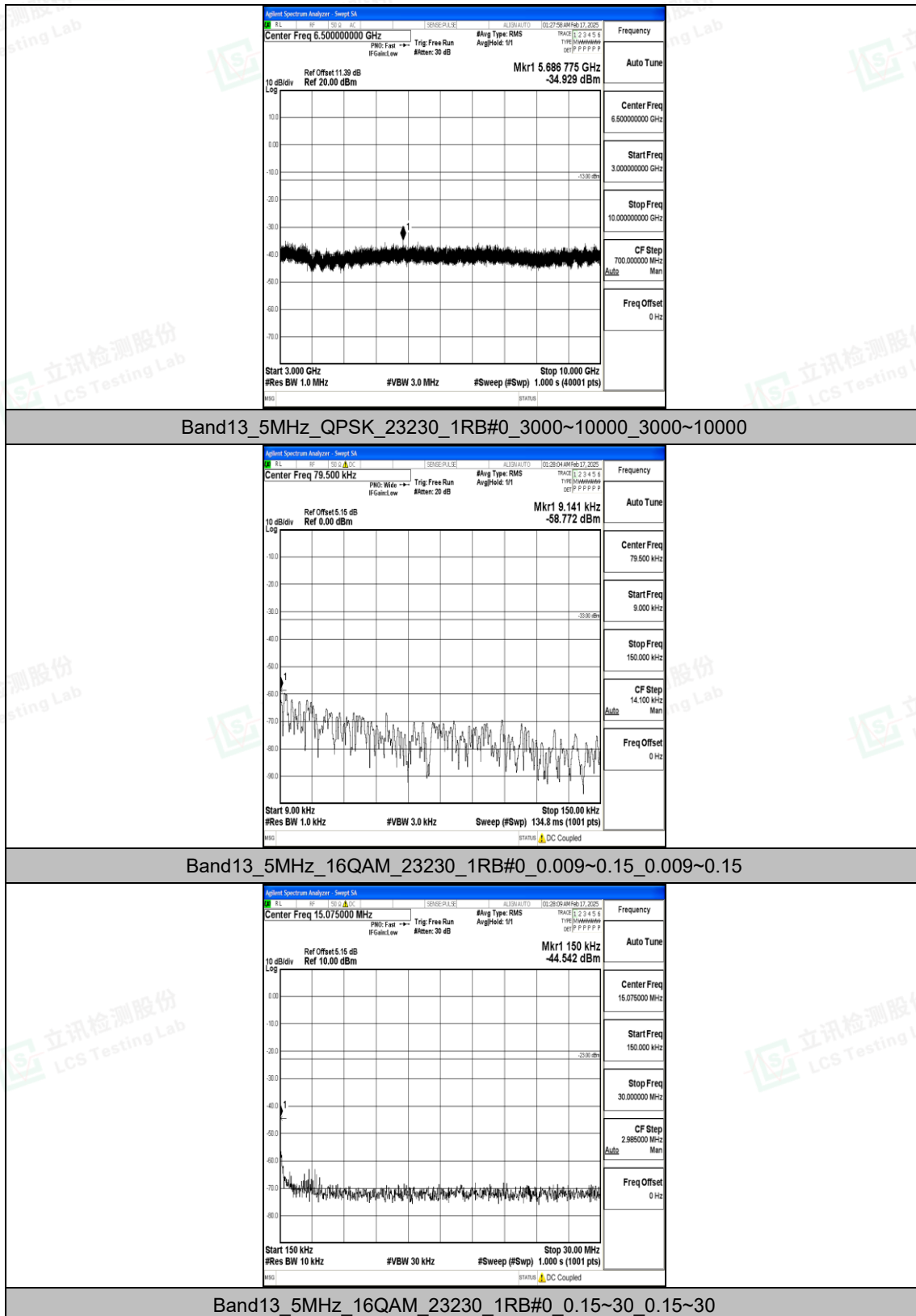


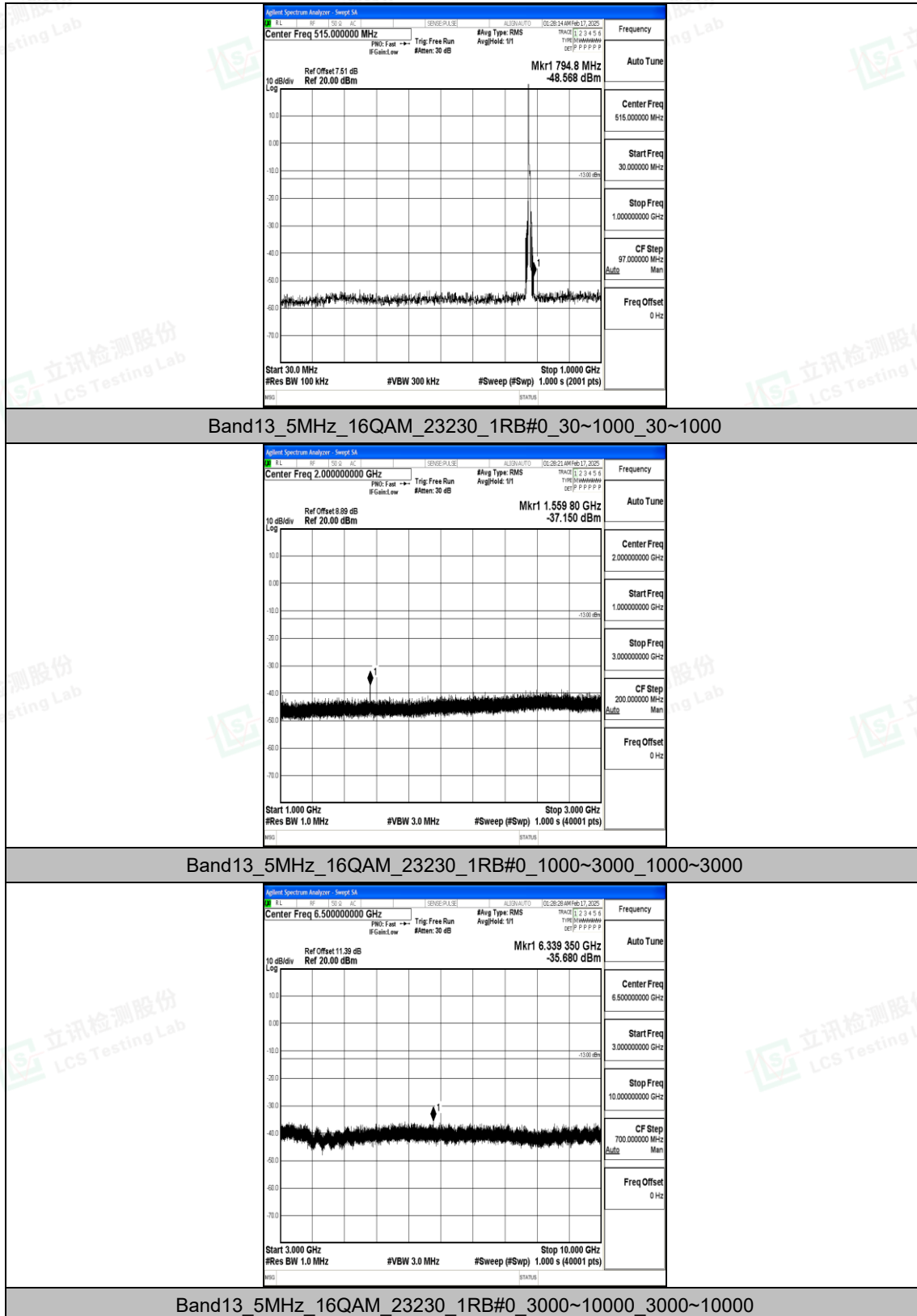


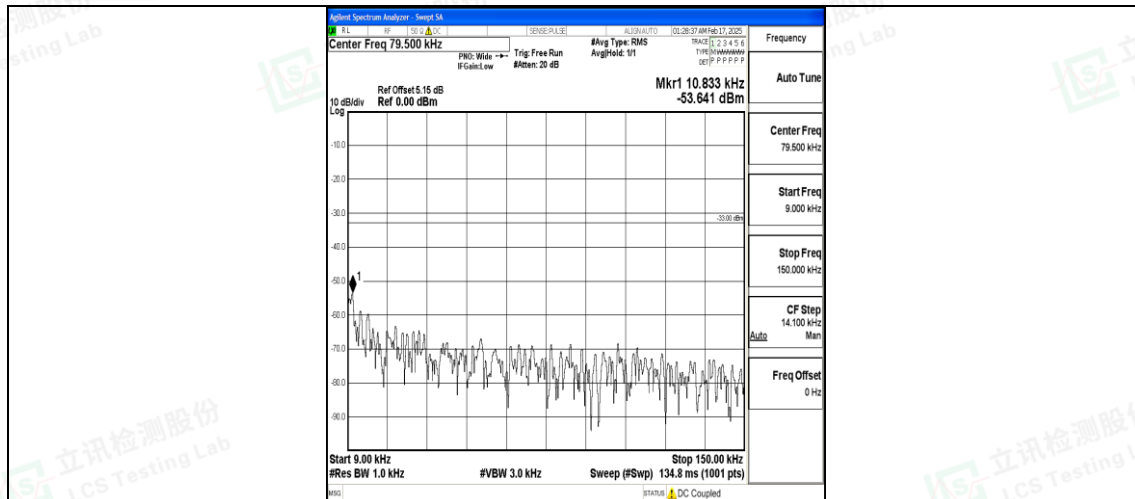




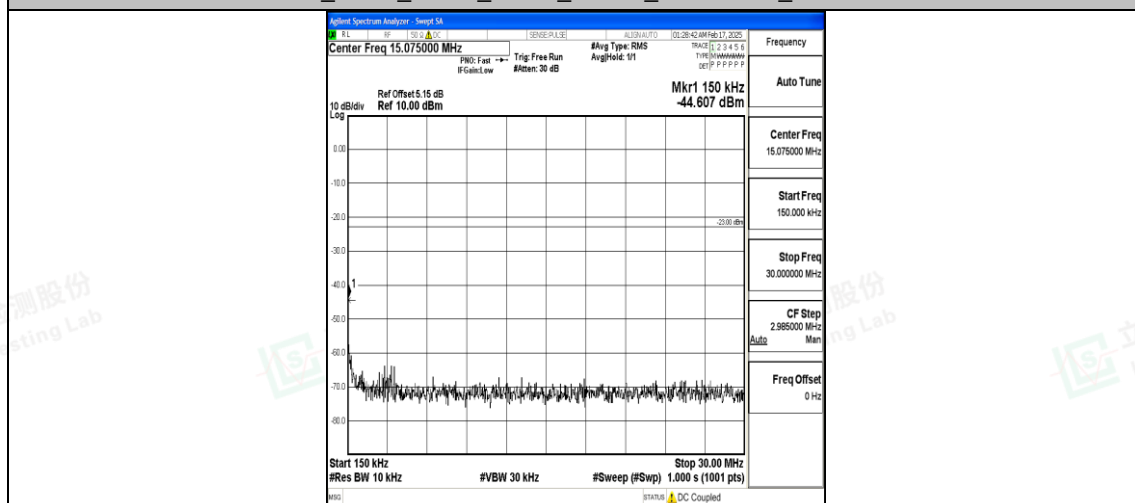




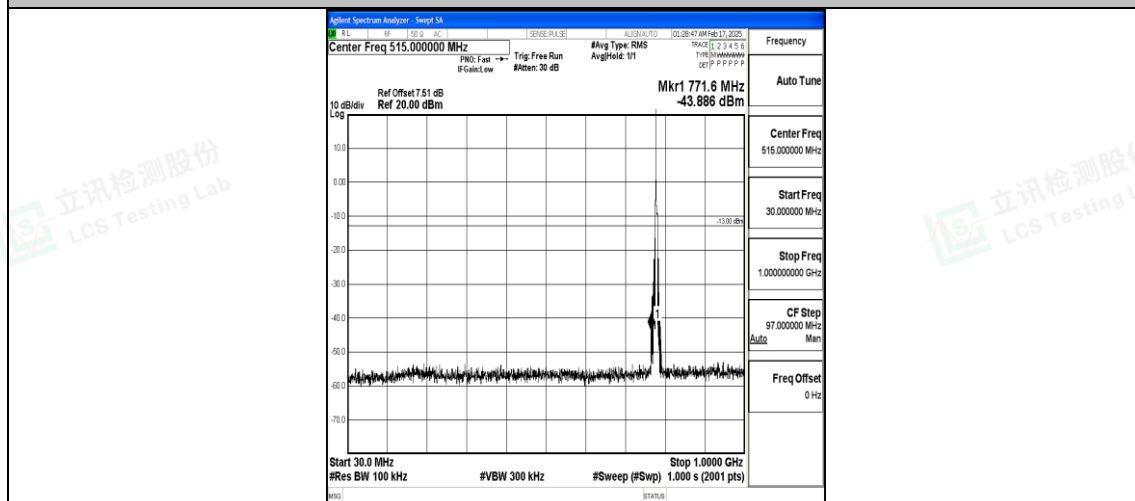




Band13 5MHz QPSK 23255 1RB#0 0.009~0.15 0.009~0.15



Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30



Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000



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