



Appendix H: Test Data for E-UTRA Band 13

Product Name: Smartphone

Test Model: HY65PB1401NA

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





H.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.07	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.59	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.16	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.69	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.14	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.56	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.24	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.26	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.27	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.26	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.31	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.58	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.31	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.69	PASS
Band13	5MHz	QPSK	23230	1RB#0	-5.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.22	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.26	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.29	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.28	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.25	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.33	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.56	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.28	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.54	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.34	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.33	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.29	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.25	PASS
Band13	5MHz	QPSK	23255	1RB#0	-6.16	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.33	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.27	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.27	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.39	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.32	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.33	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.35	PASS



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 Scan code to check authenticity



Band13	5MHz	QPSK	23255	12RB#6	22.32	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.35	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.26	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.34	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.23	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.47	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.24	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.33	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.26	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.29	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.24	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.31	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.32	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.55	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.27	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.59	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.29	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.30	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.28	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.36	PASS





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

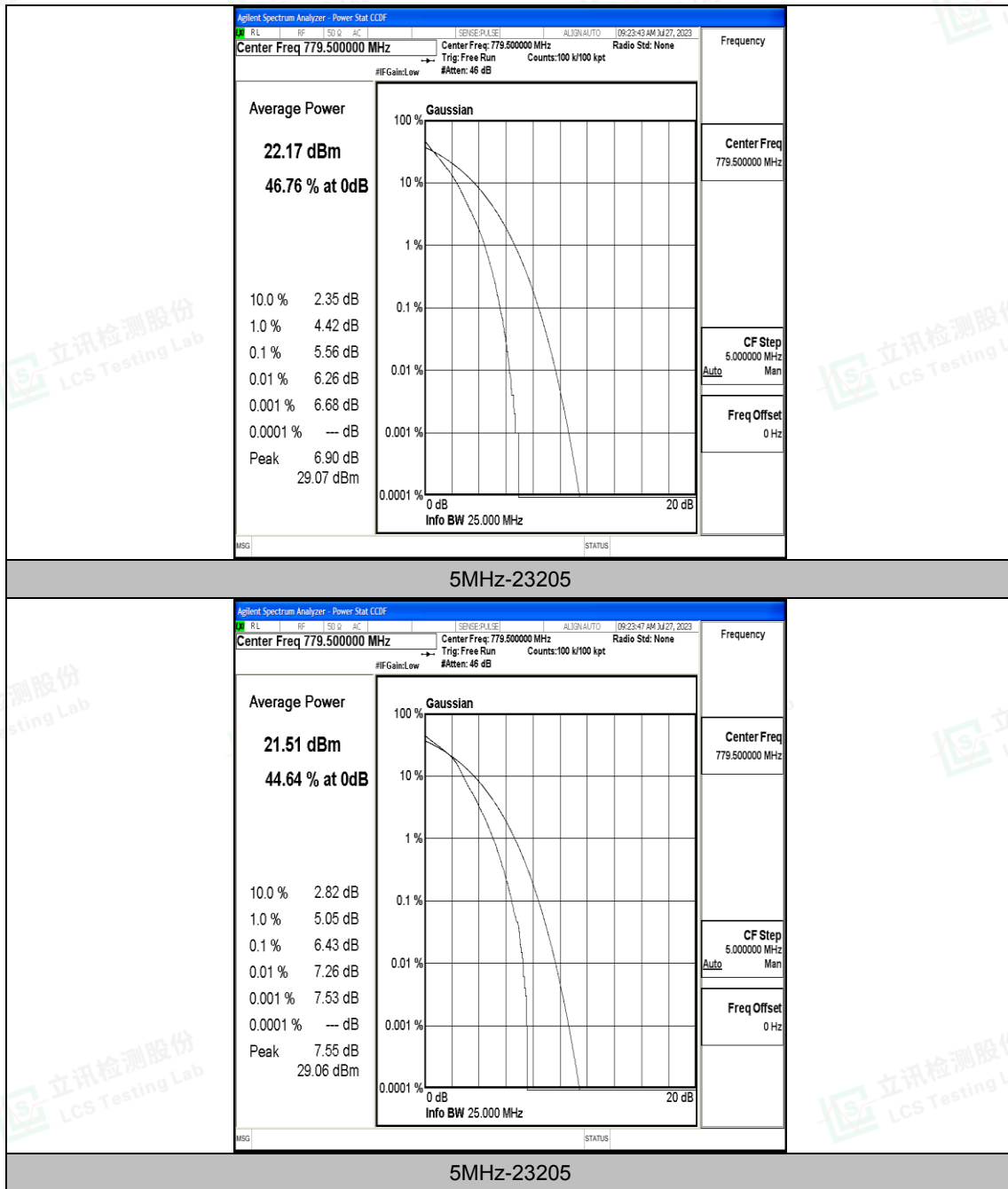
Test Result

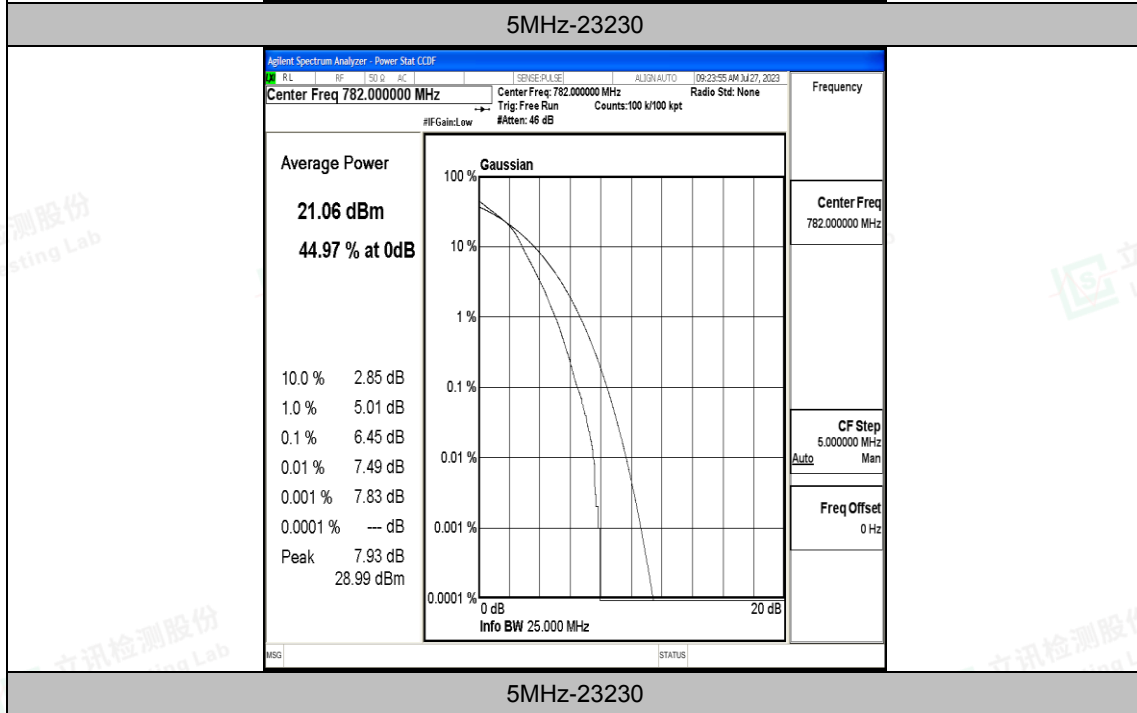
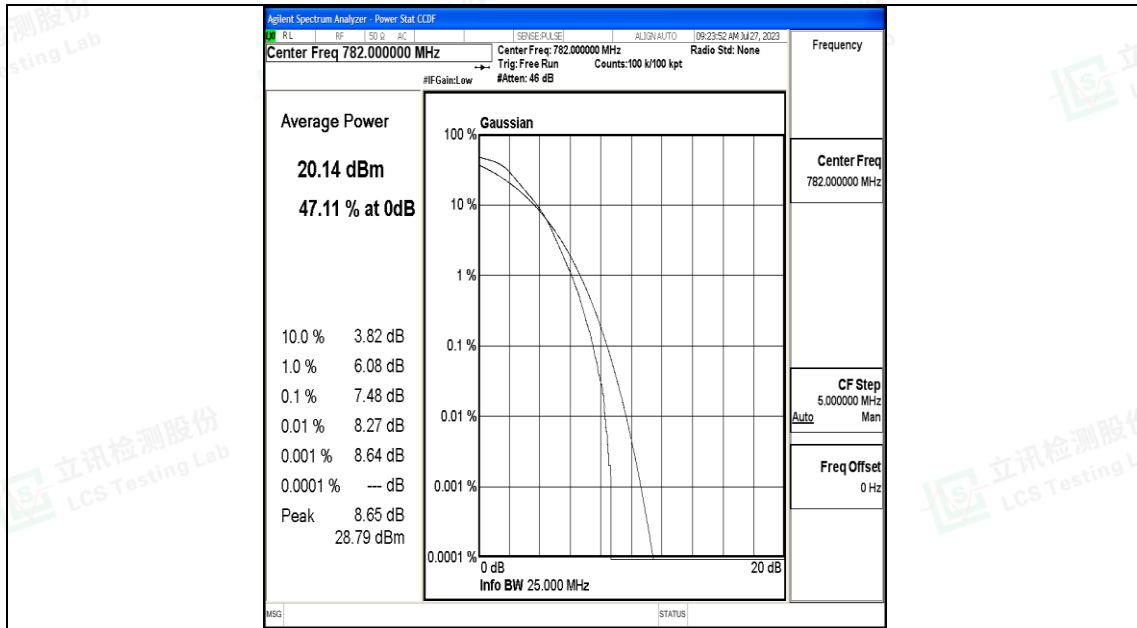
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	5.56	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.43	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	7.48	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.45	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	7.12	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.36	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.73	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.36	13	PASS

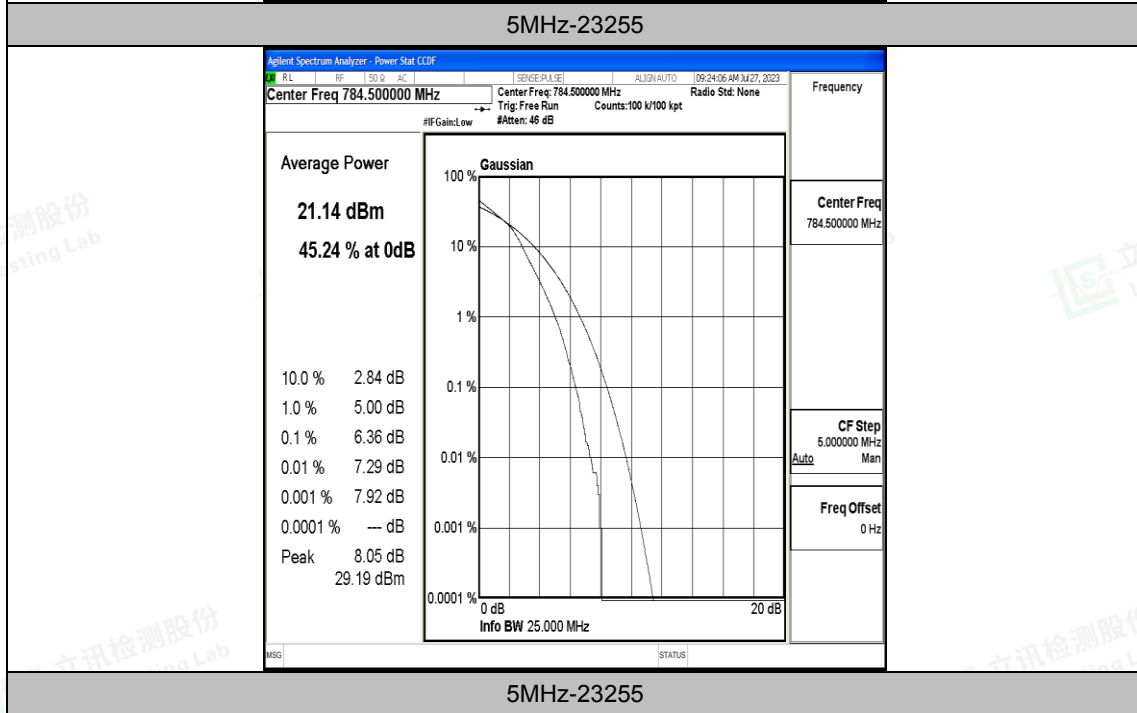
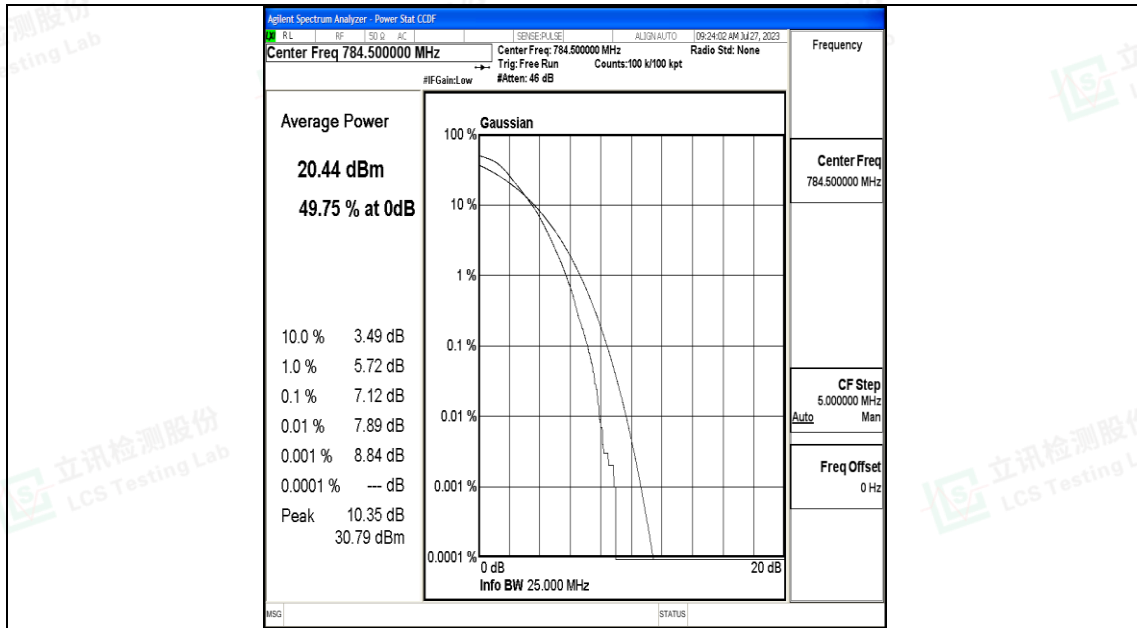


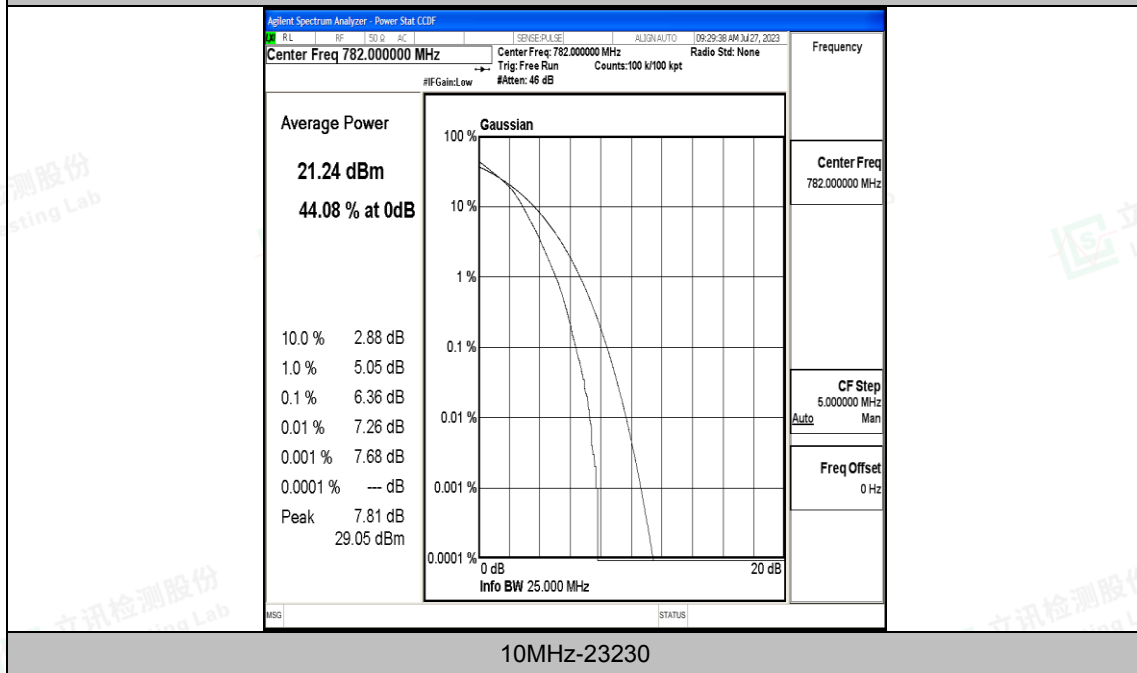
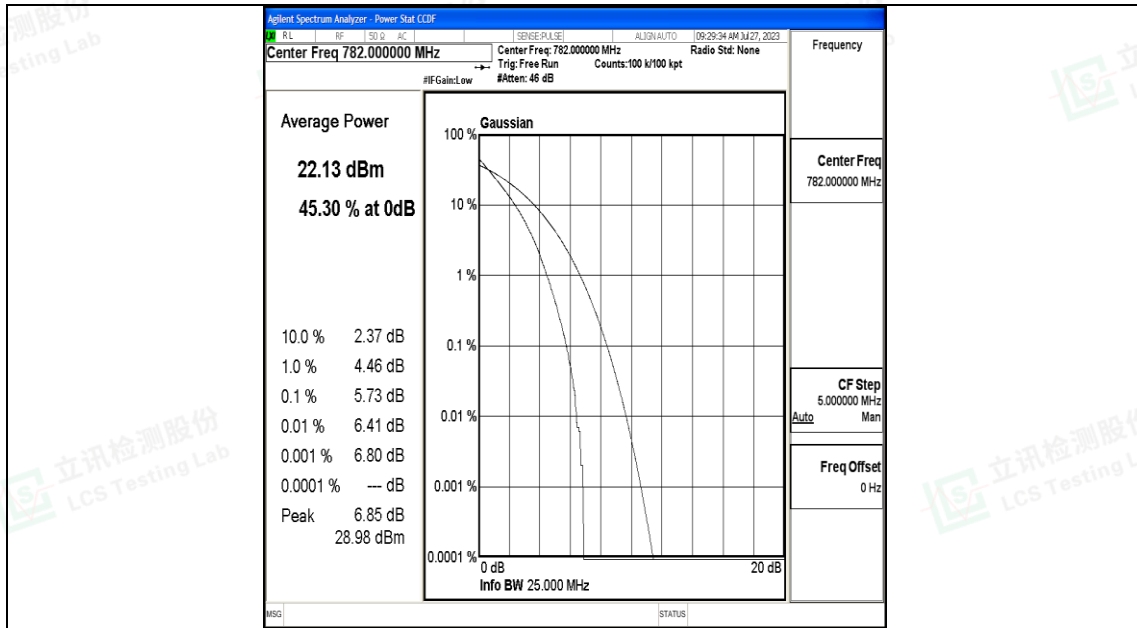


Test Graphs











H.3 26dB Bandwidth and Occupied Bandwidth

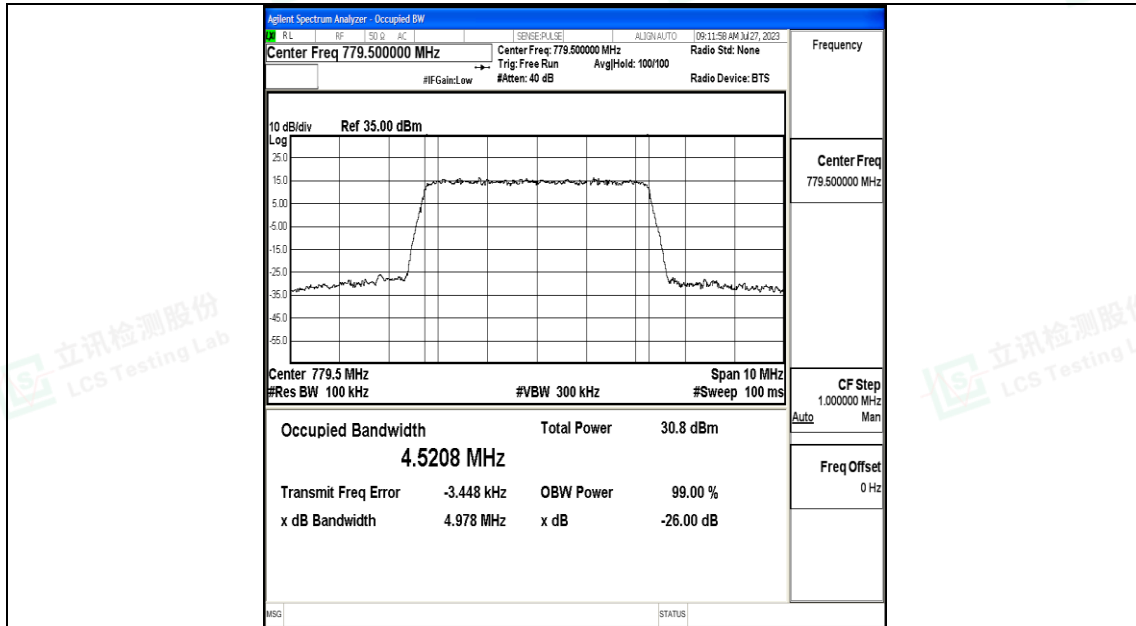
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5208	4.978	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5115	4.966	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5059	4.994	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5291	4.980	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5024	4.978	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5041	4.991	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0001	9.897	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9935	9.920	PASS

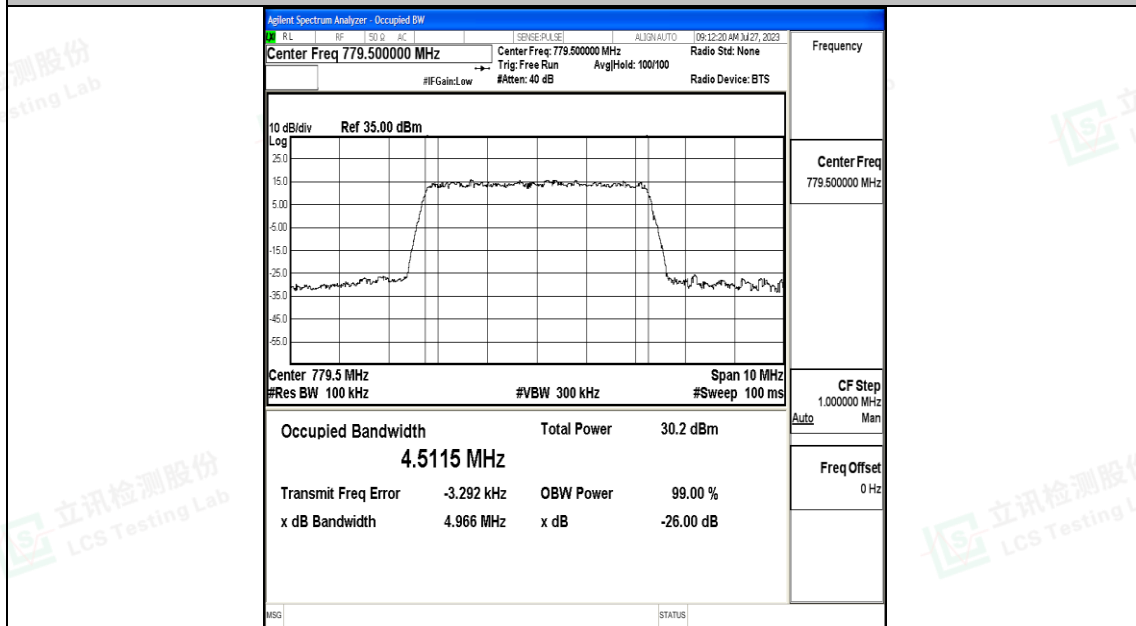




Test Graphs

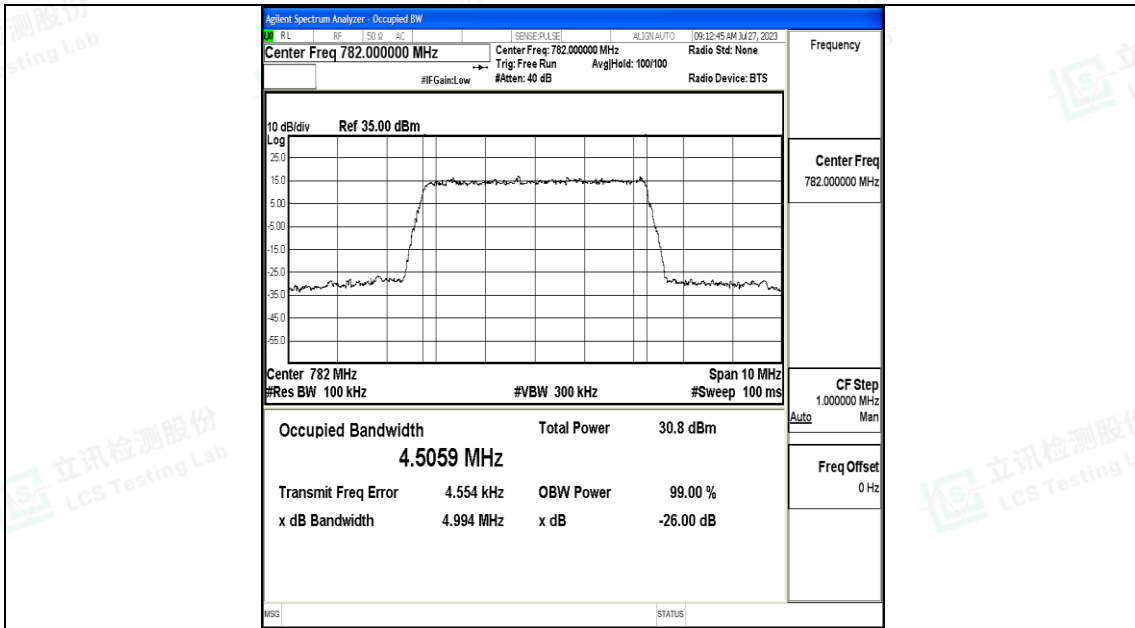


5MHz-23205

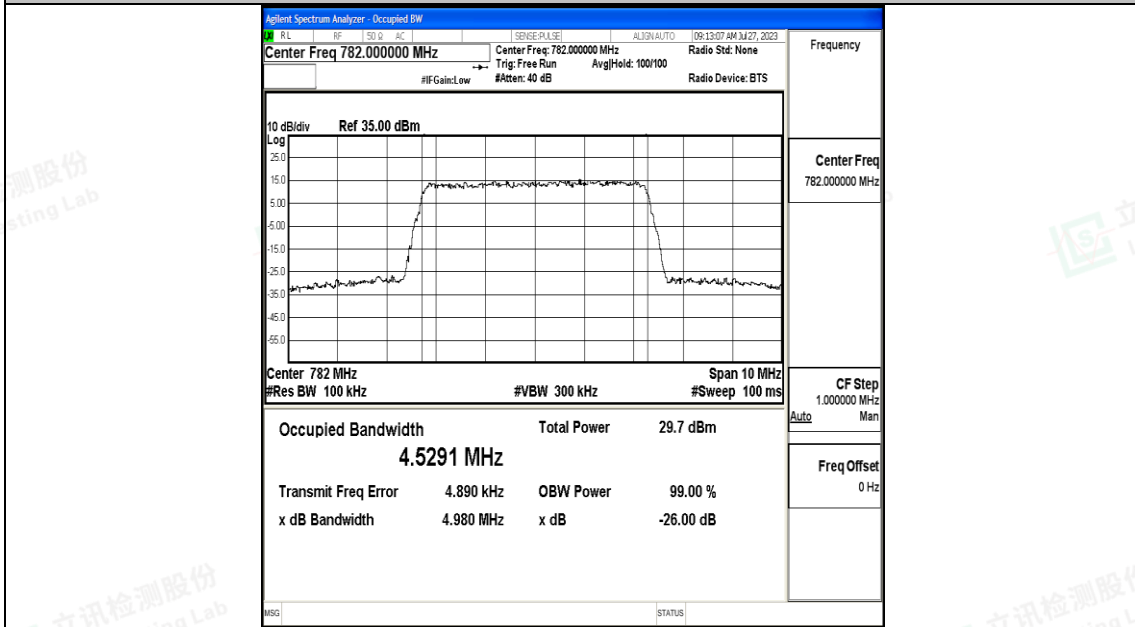


5MHz-23205



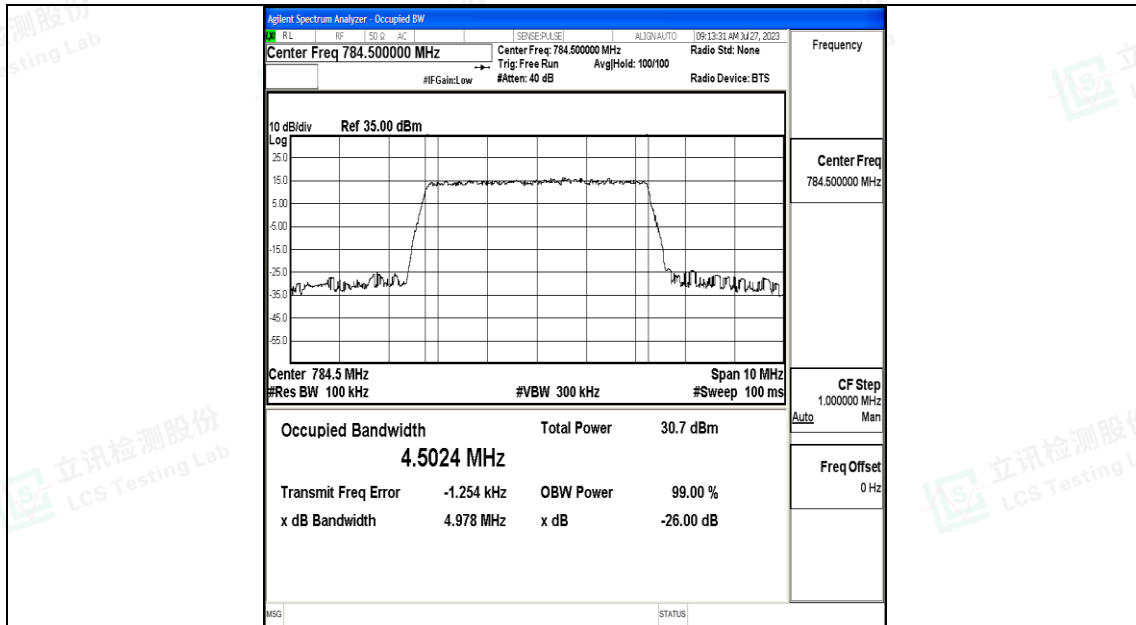


5MHz-23230

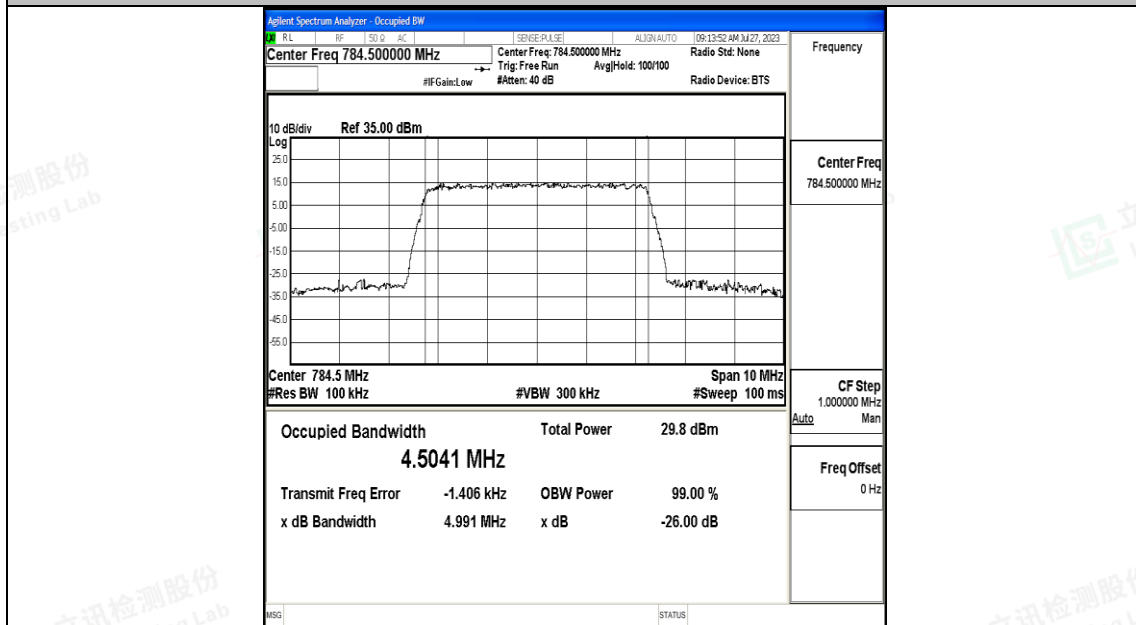


5MHz-23230



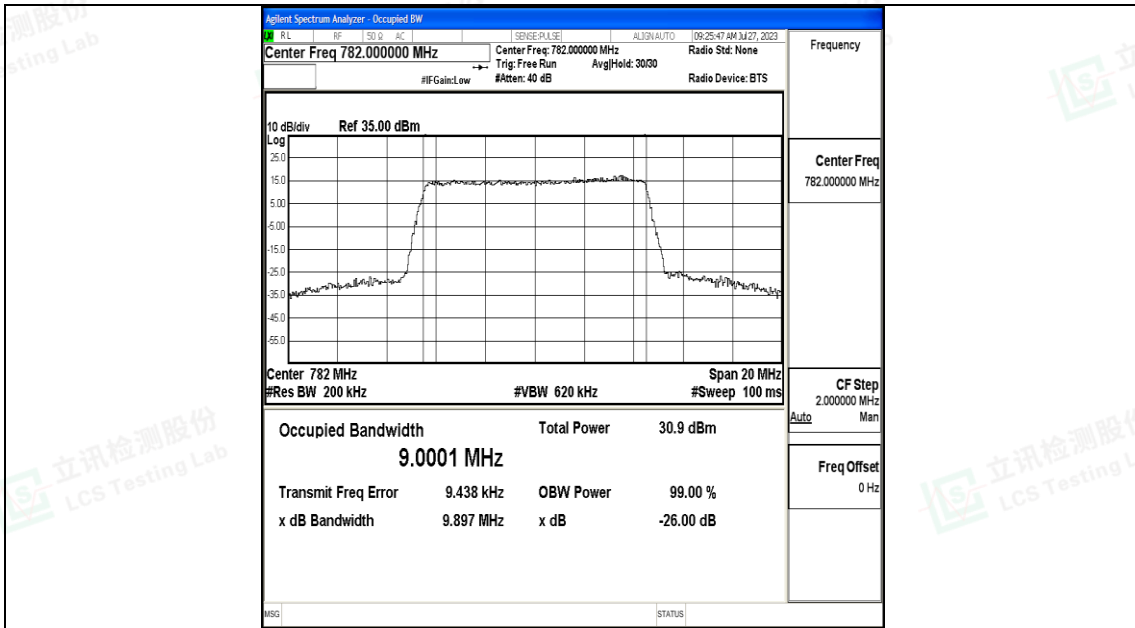


5MHz-23255

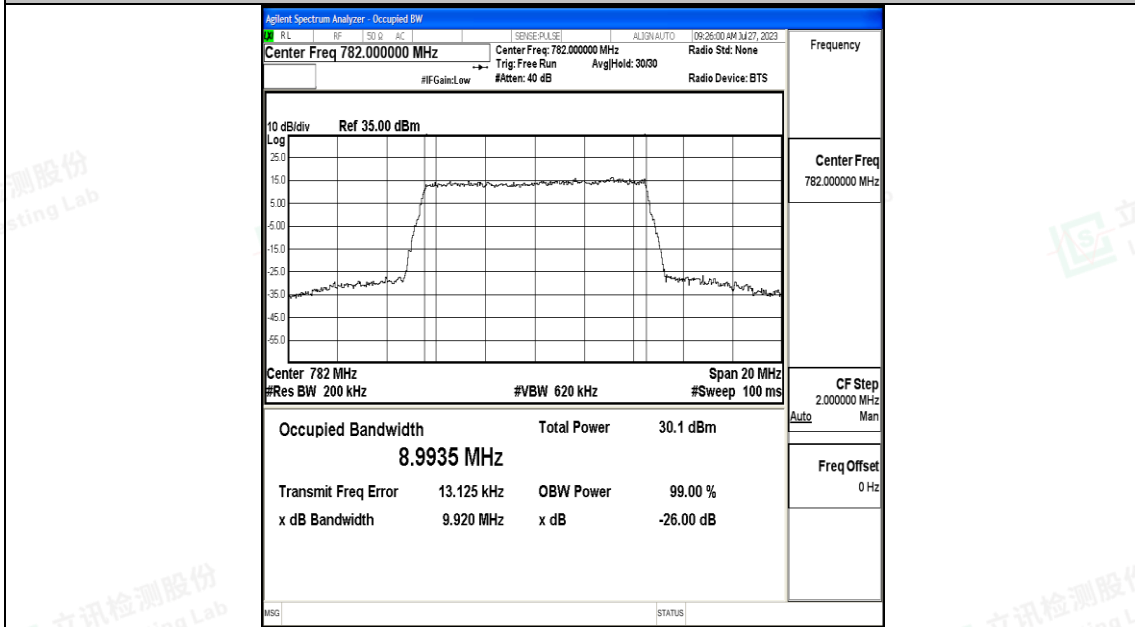


5MHz-23255



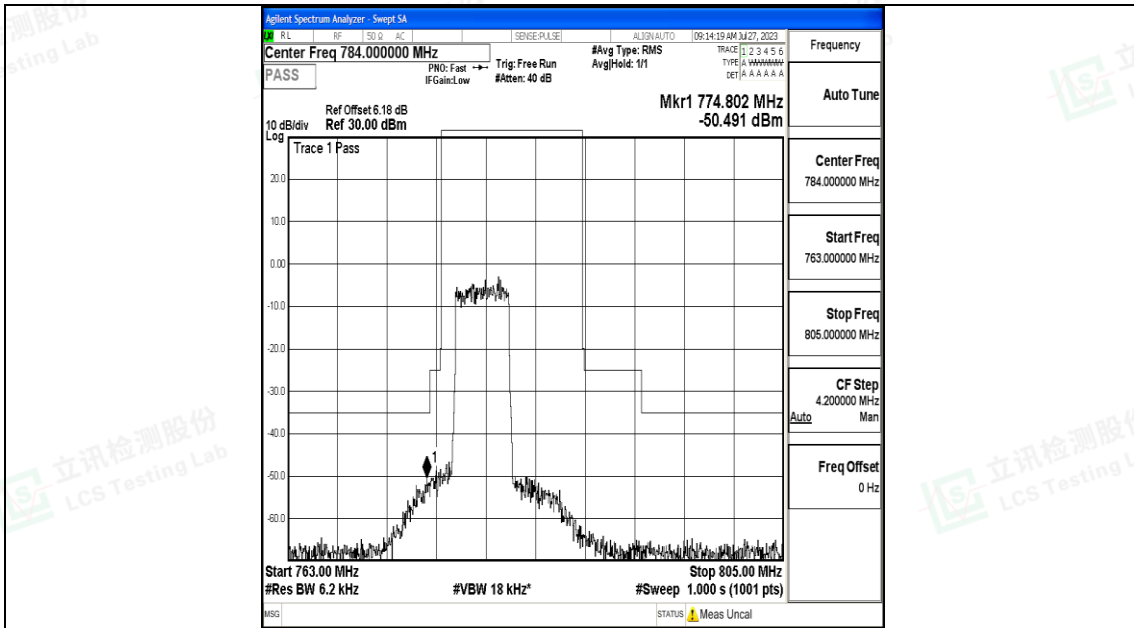


10MHz-23230

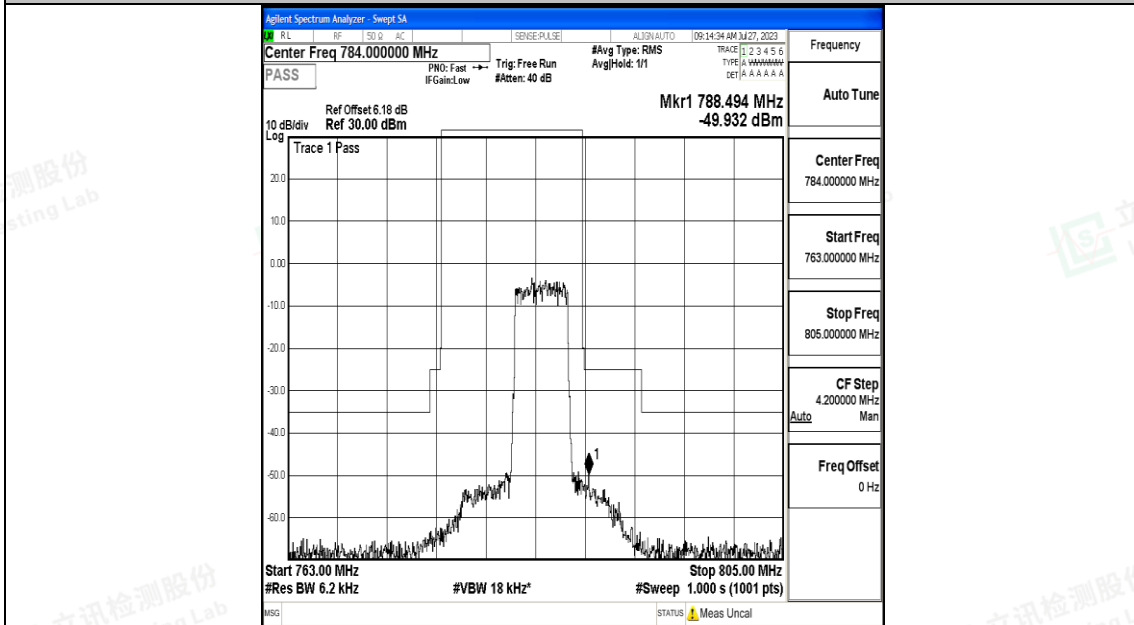


10MHz-23230



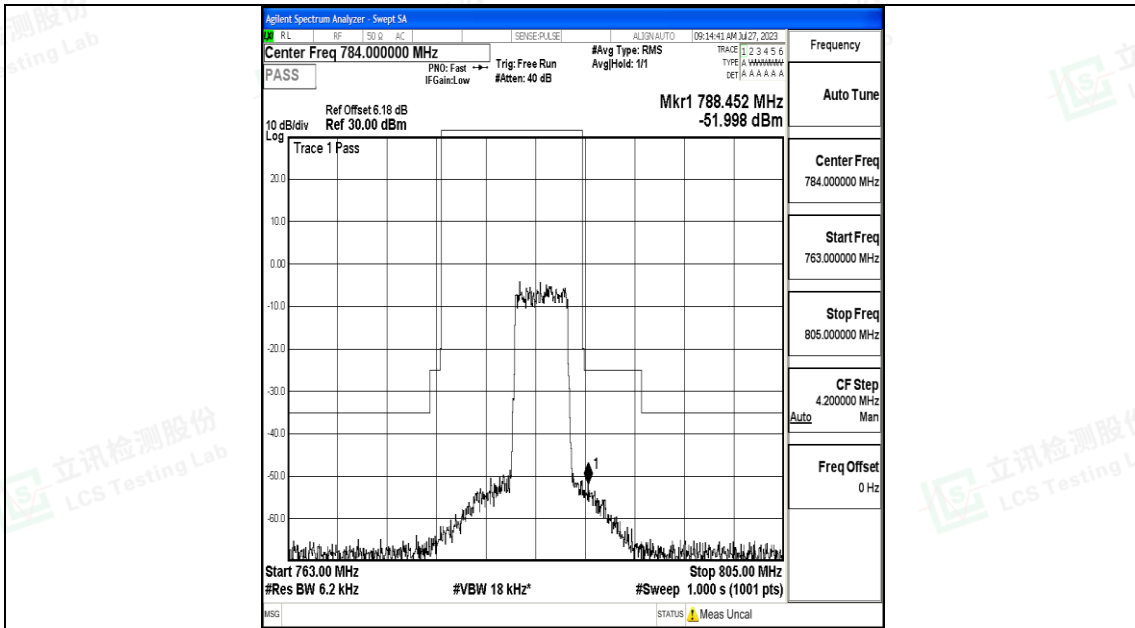


Band13_5MHz_16QAM_23205_25RB#0

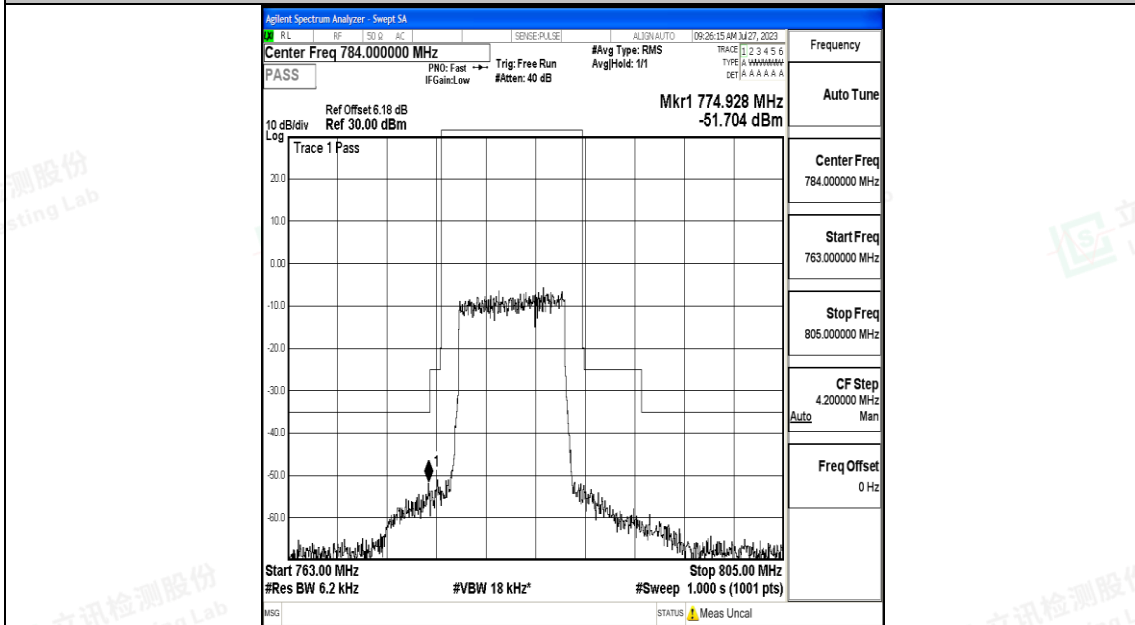


Band13_5MHz_QPSK_23255_25RB#0



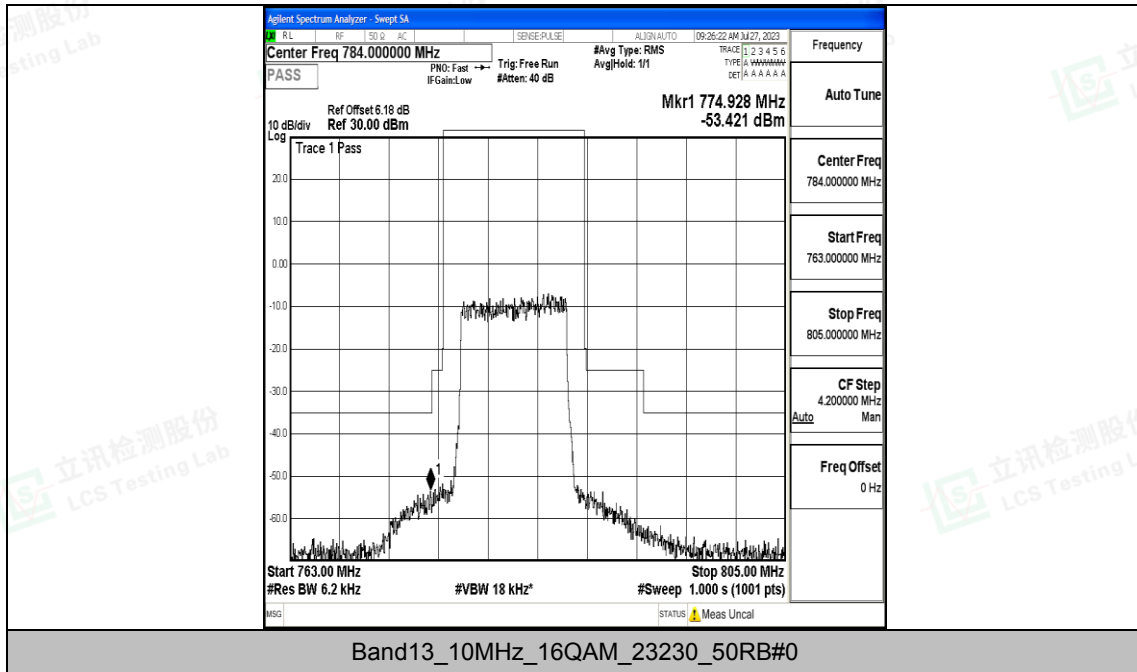


Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0







H.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	-53.84	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-50.02	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-62.39	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-42.16	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.46	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-57.48	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-50.87	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-62.90	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-43.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-44.47	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-53.10	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-53.05	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-62.46	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-42.51	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-44.45	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-54.99	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-51.63	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.52	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-42.33	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-44.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-53.34	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-53.36	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-62.57	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-43.01	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-44.44	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-53.21	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-52.31	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-62.60	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-41.85	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-44.20	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-54.22	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-53.56	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-62.63	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-41.33	PASS



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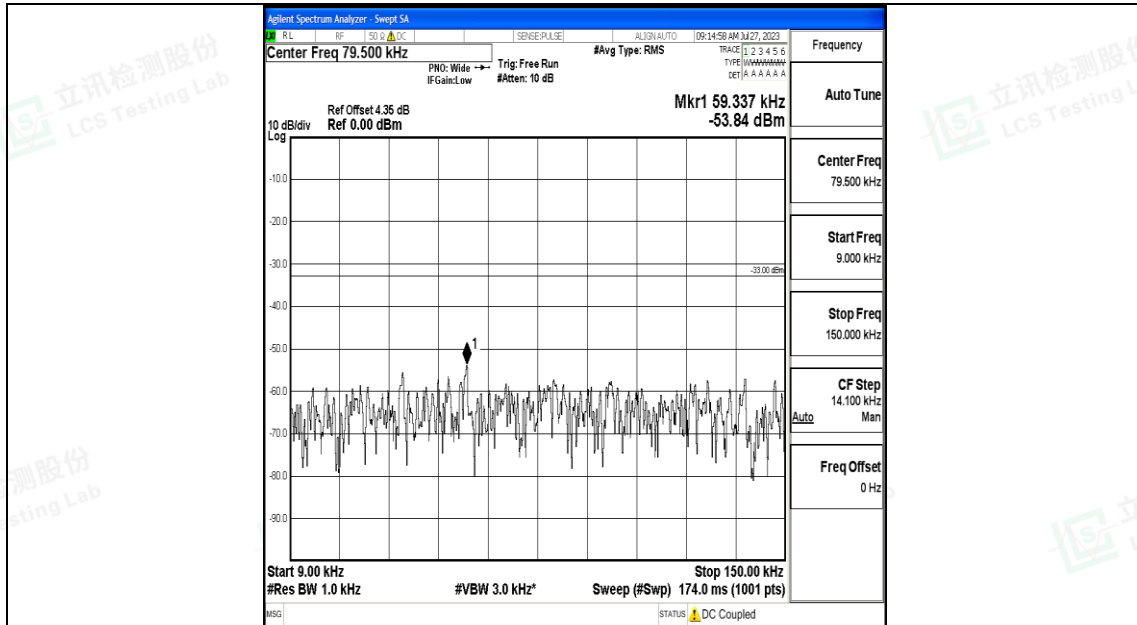
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Scan code to check authenticity

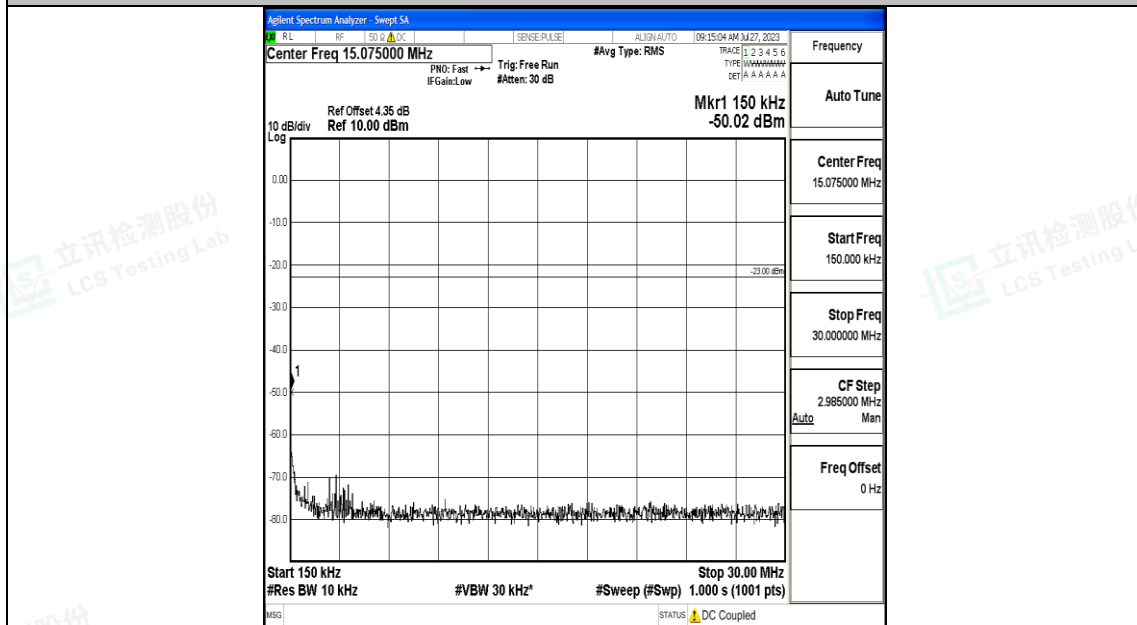


Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-44.33	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-55.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-52.66	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-62.96	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-40.73	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-43.97	PASS

Test Graphs

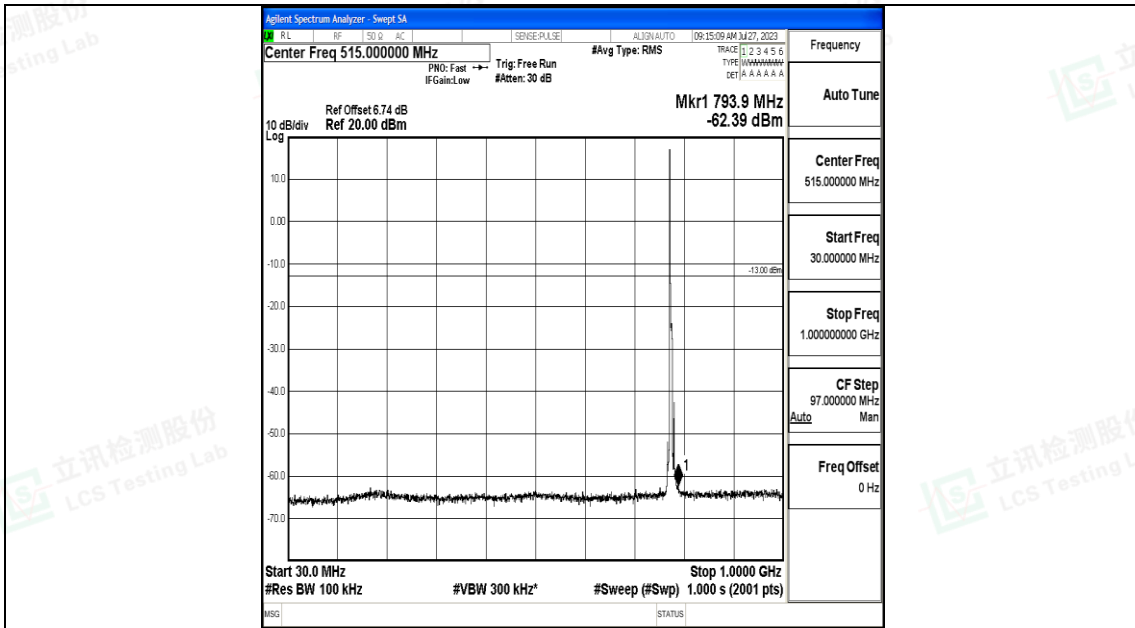


Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15

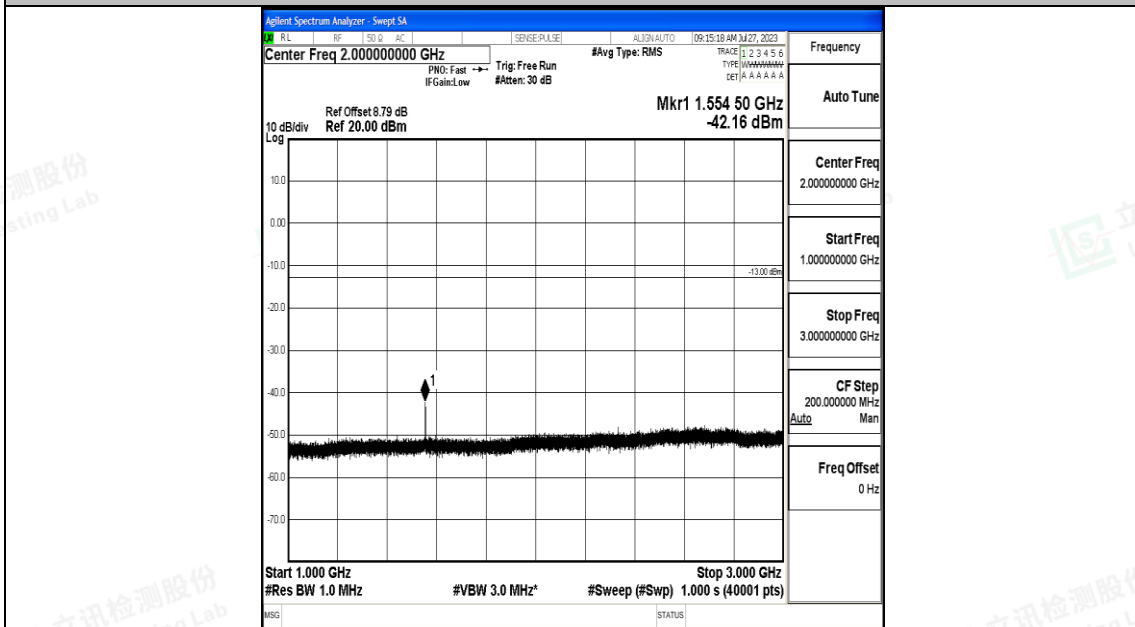


Band13_5MHz_QPSK_23205_1RB#0_0.15~30_0.15~30



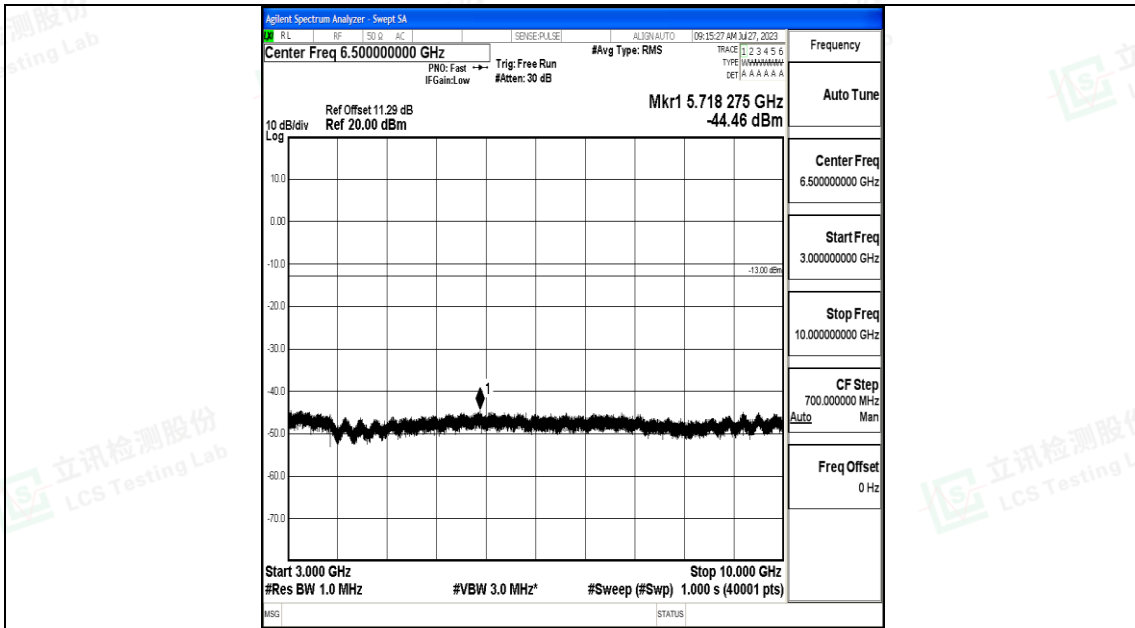


Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

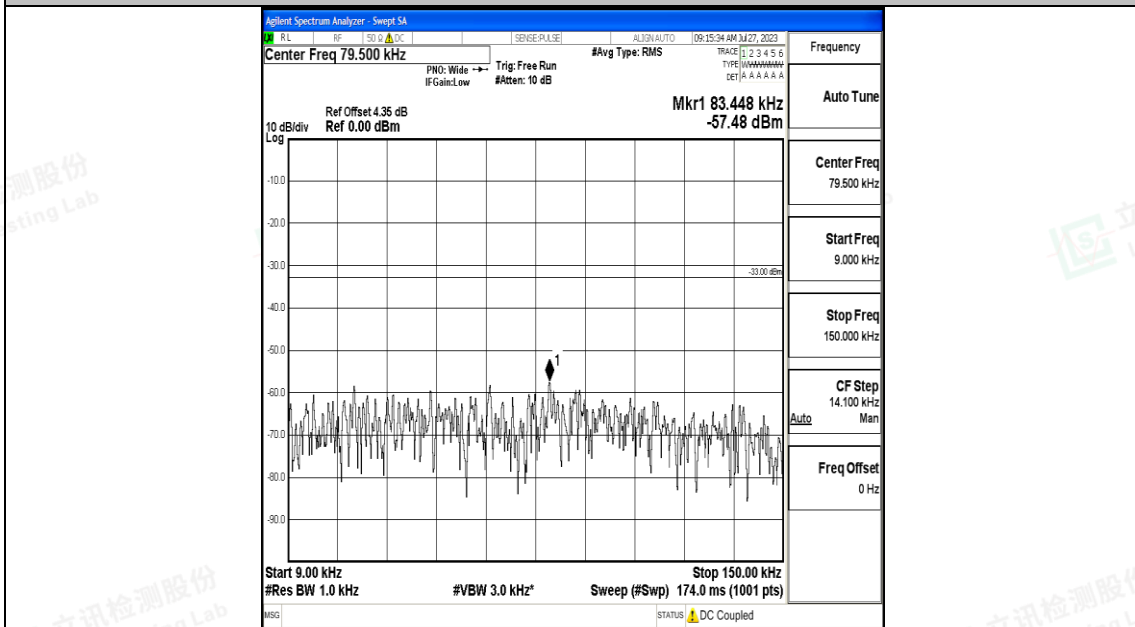


Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000



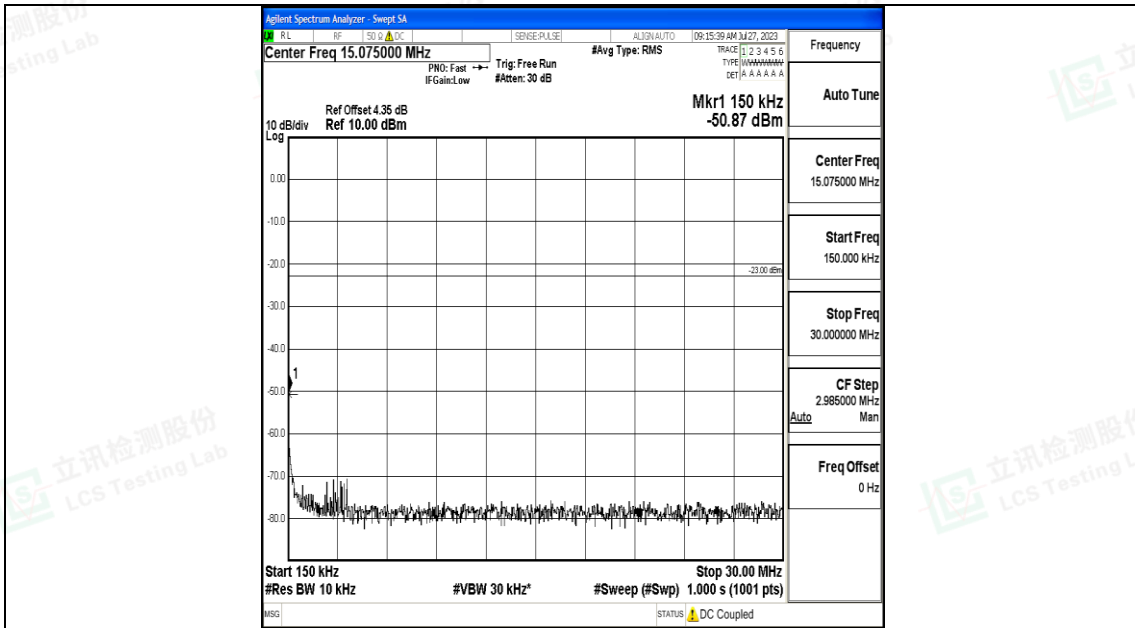


Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000

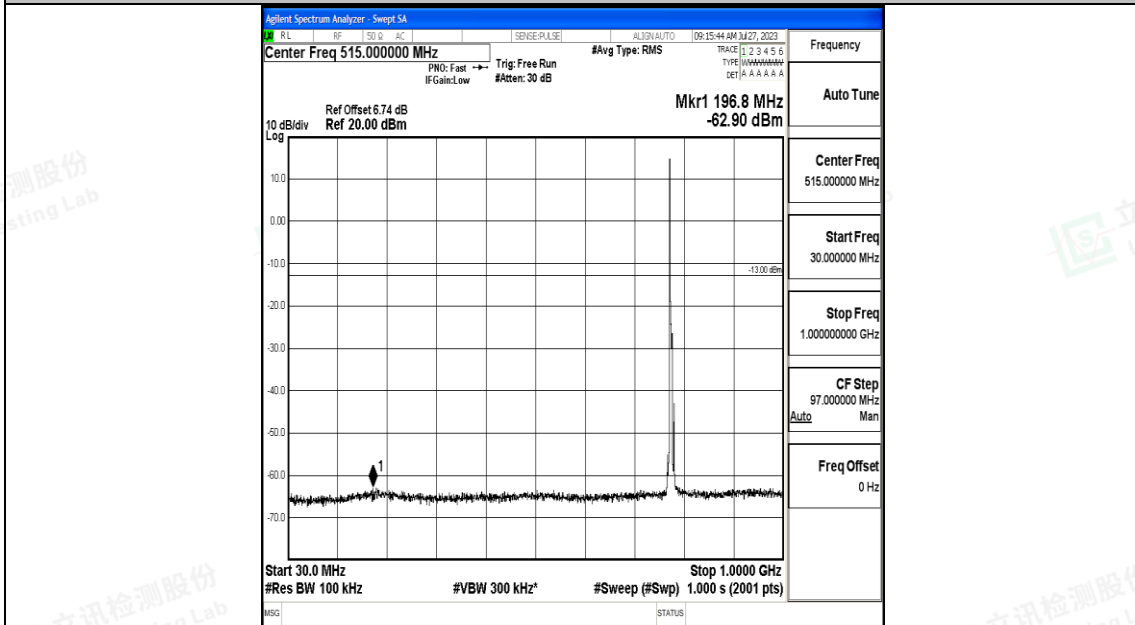


Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.009~0.15



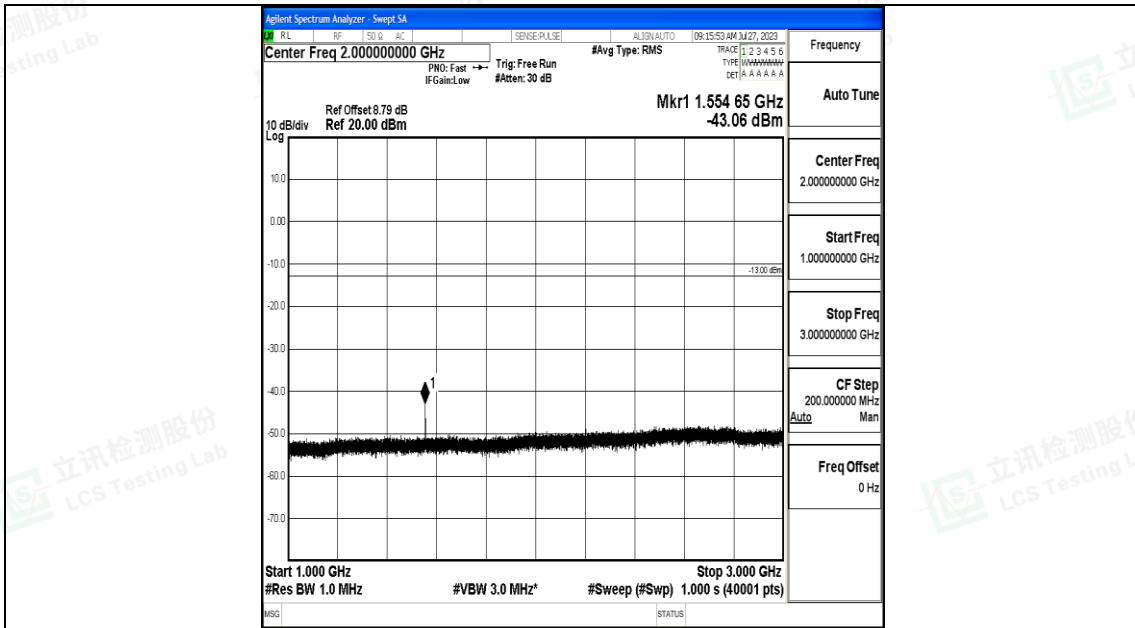


Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30

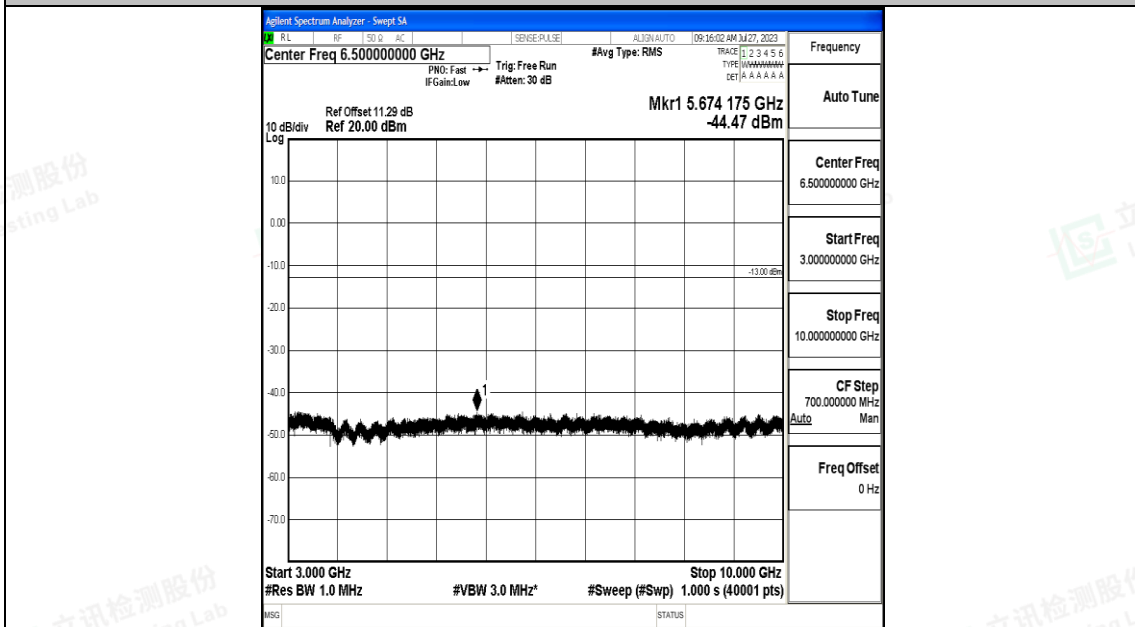


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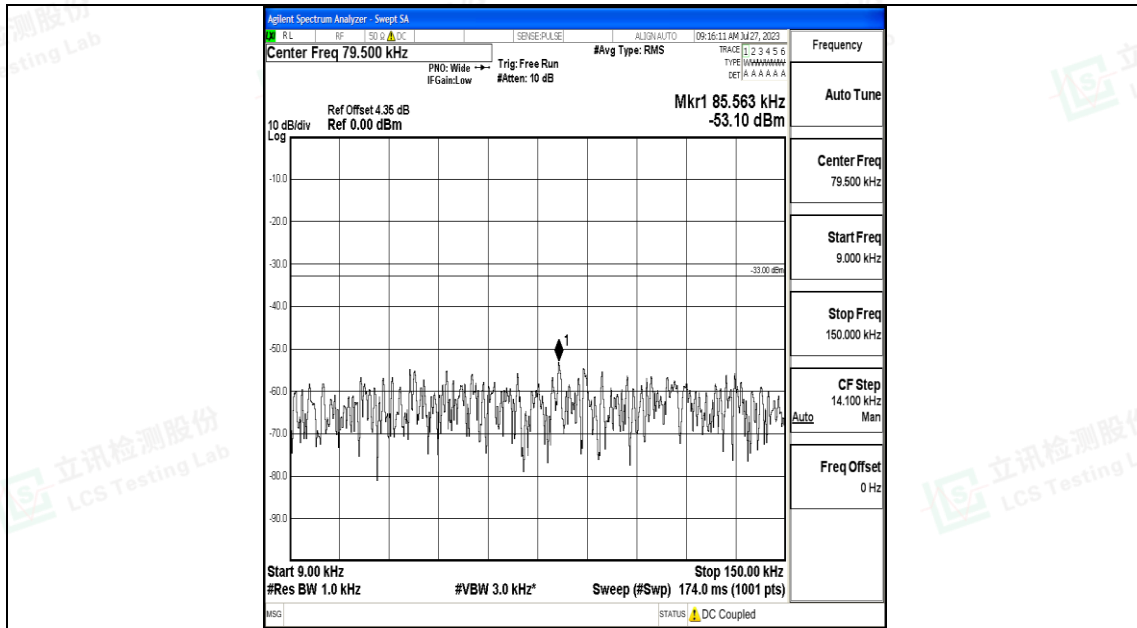


Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000

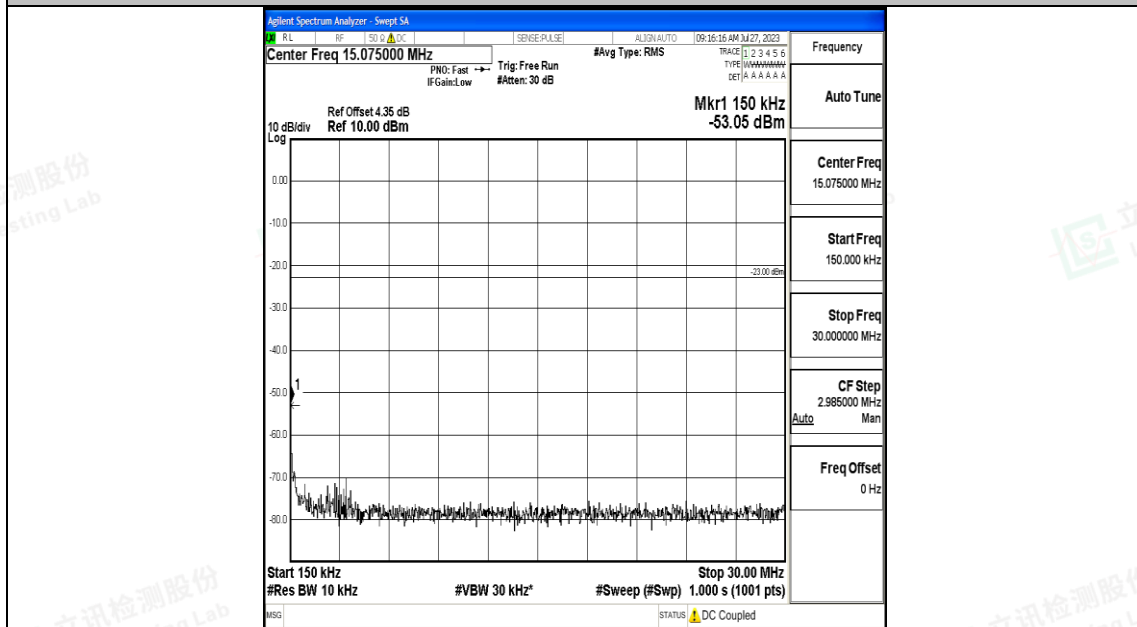


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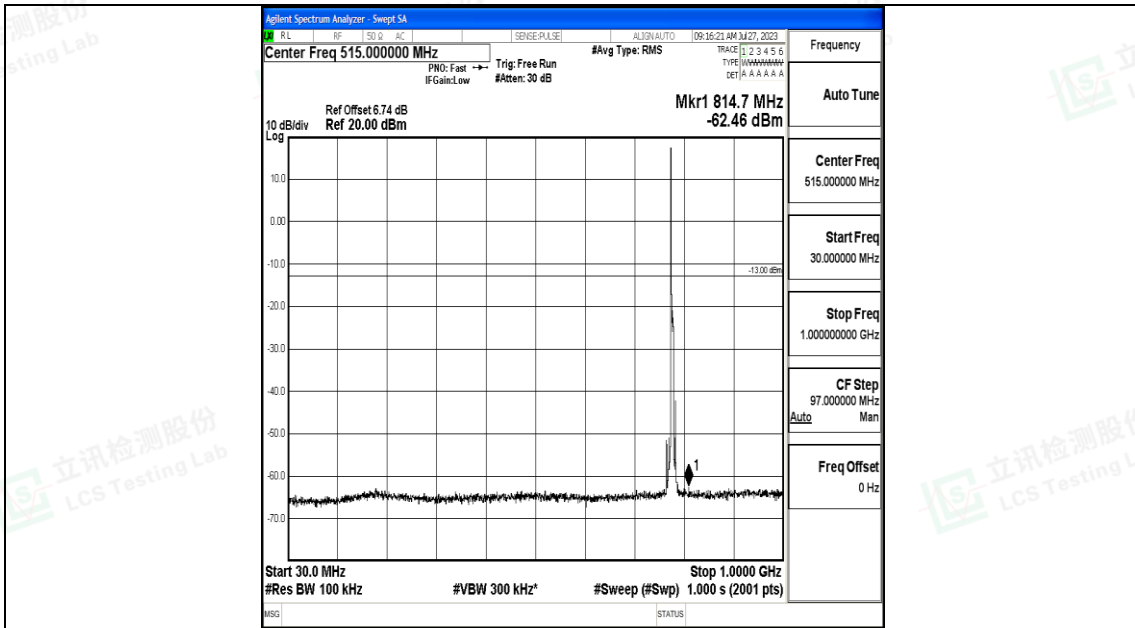


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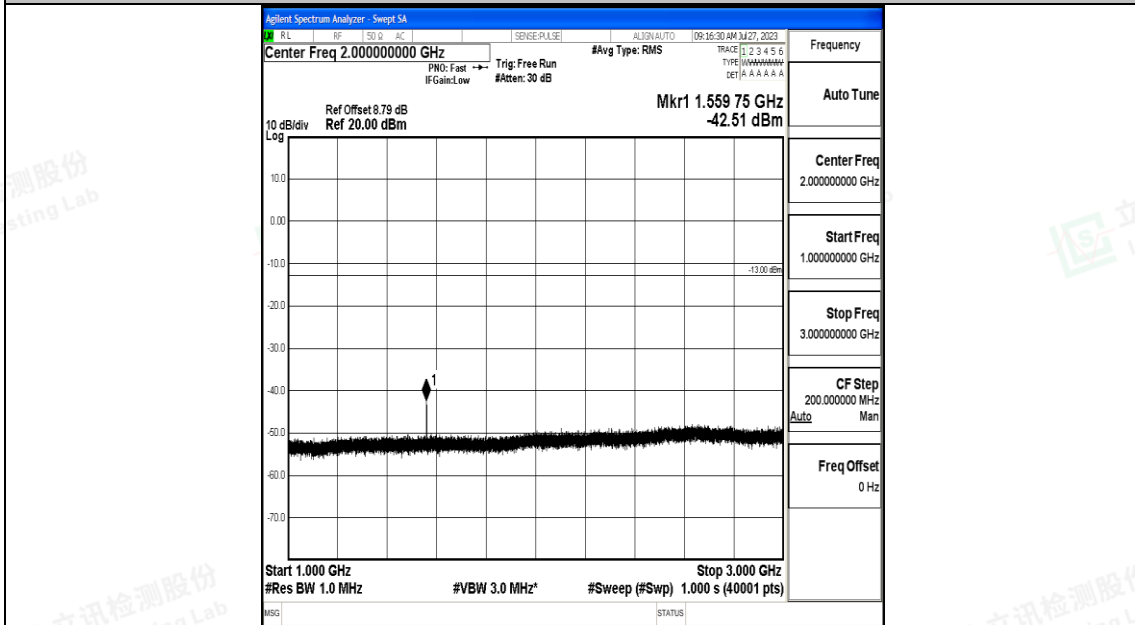


Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



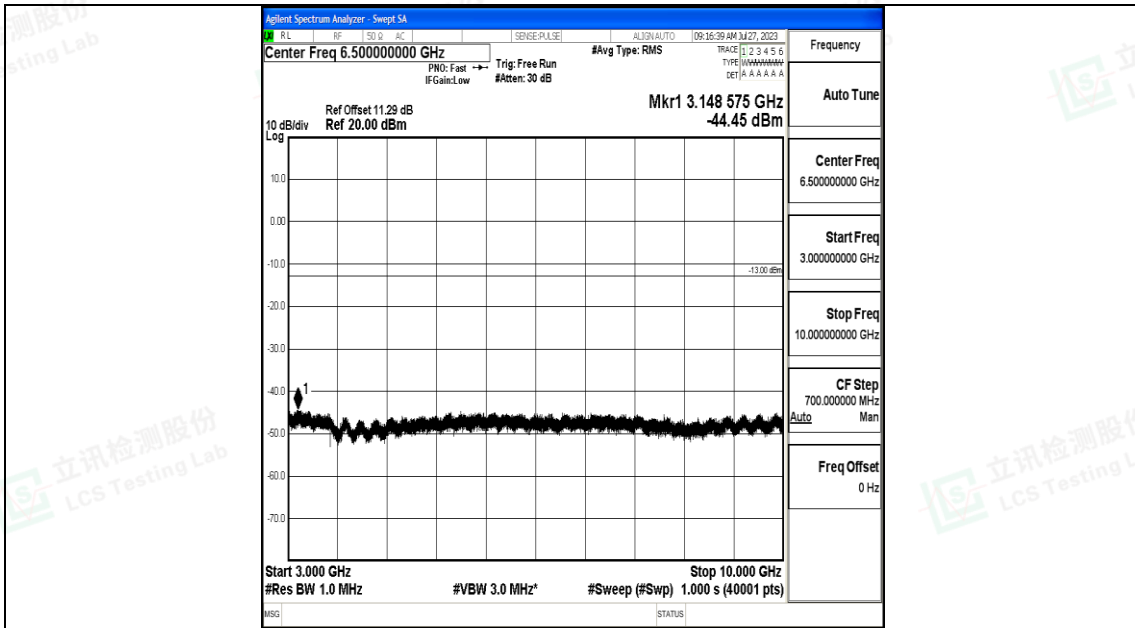


Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000

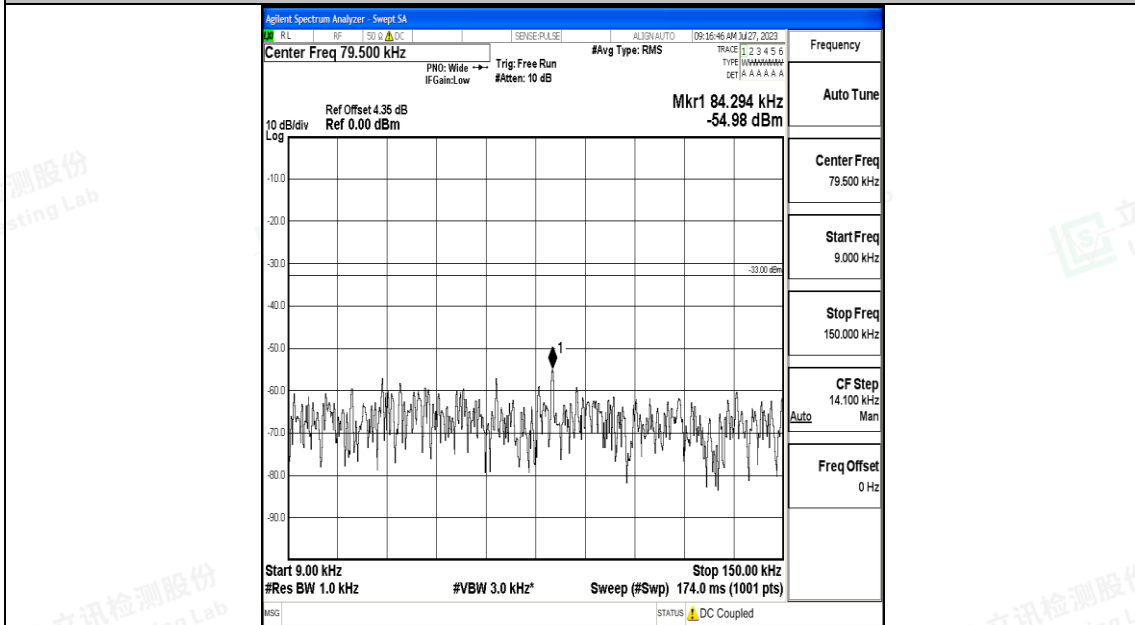


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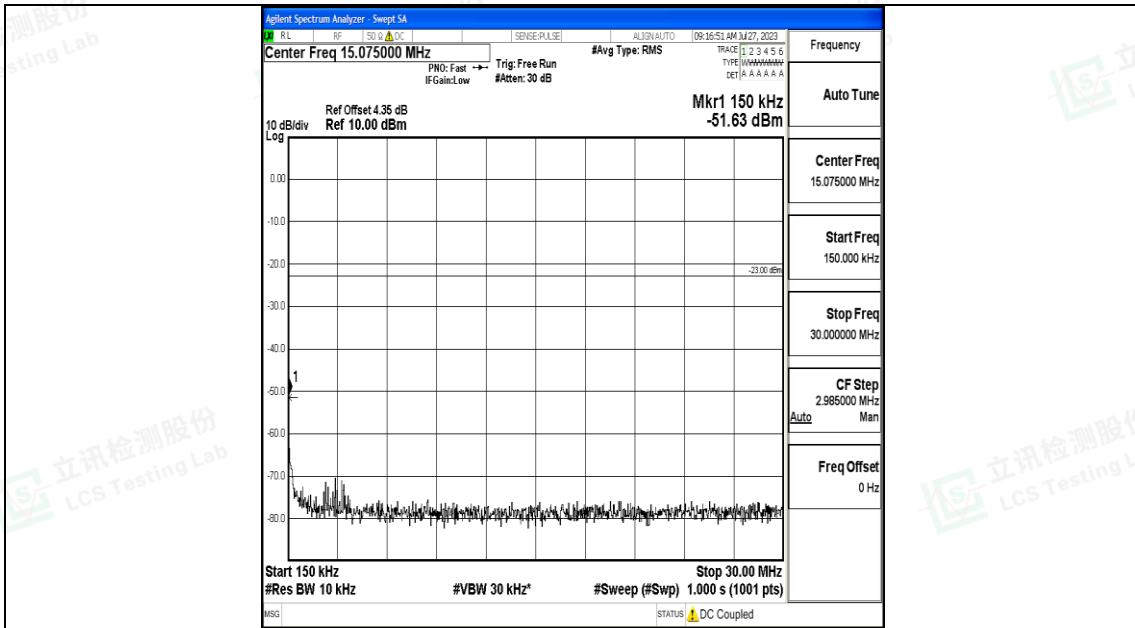


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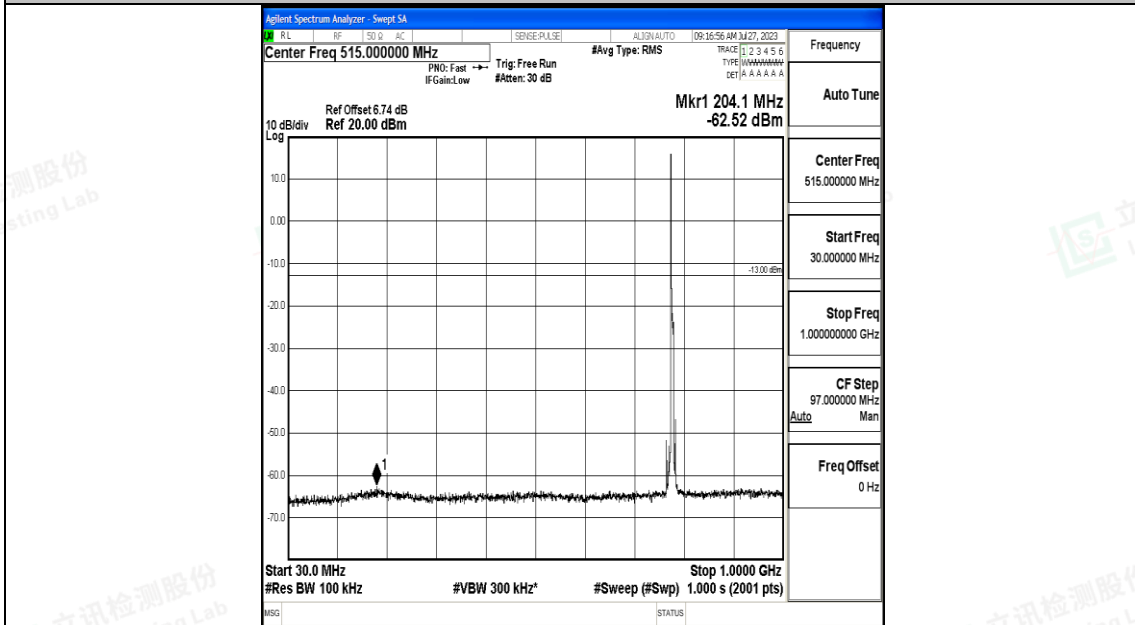


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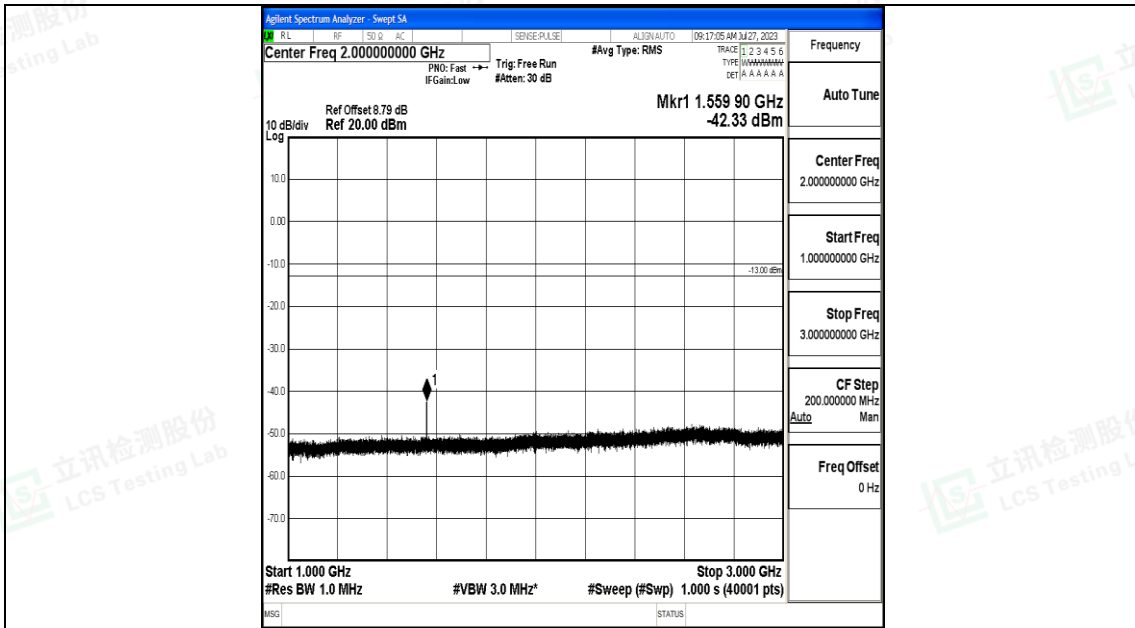


Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

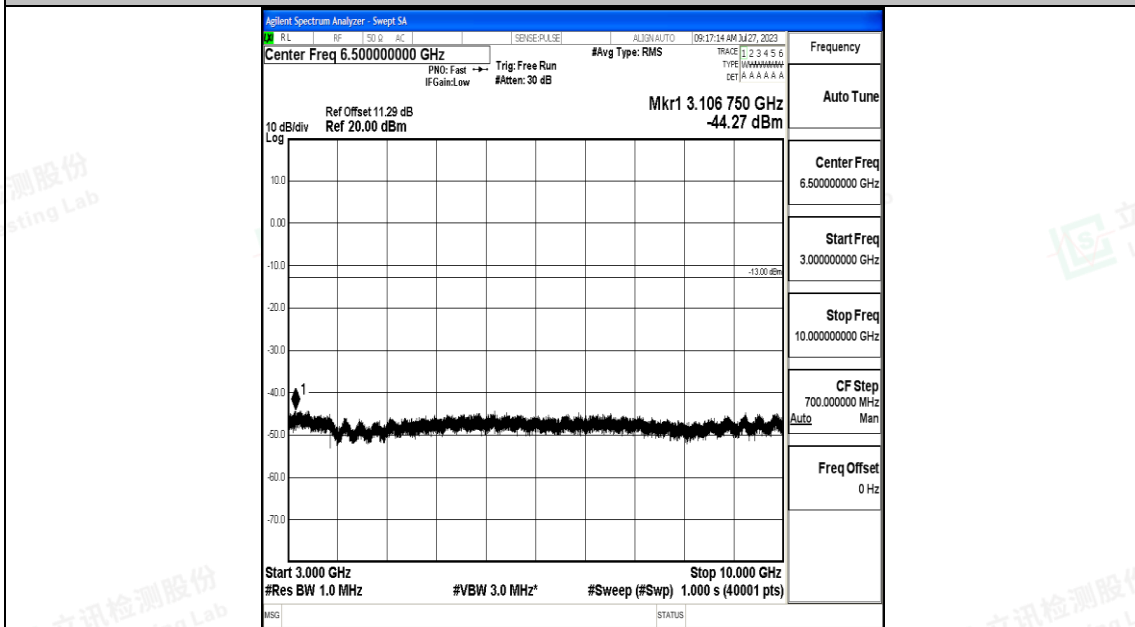


Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000



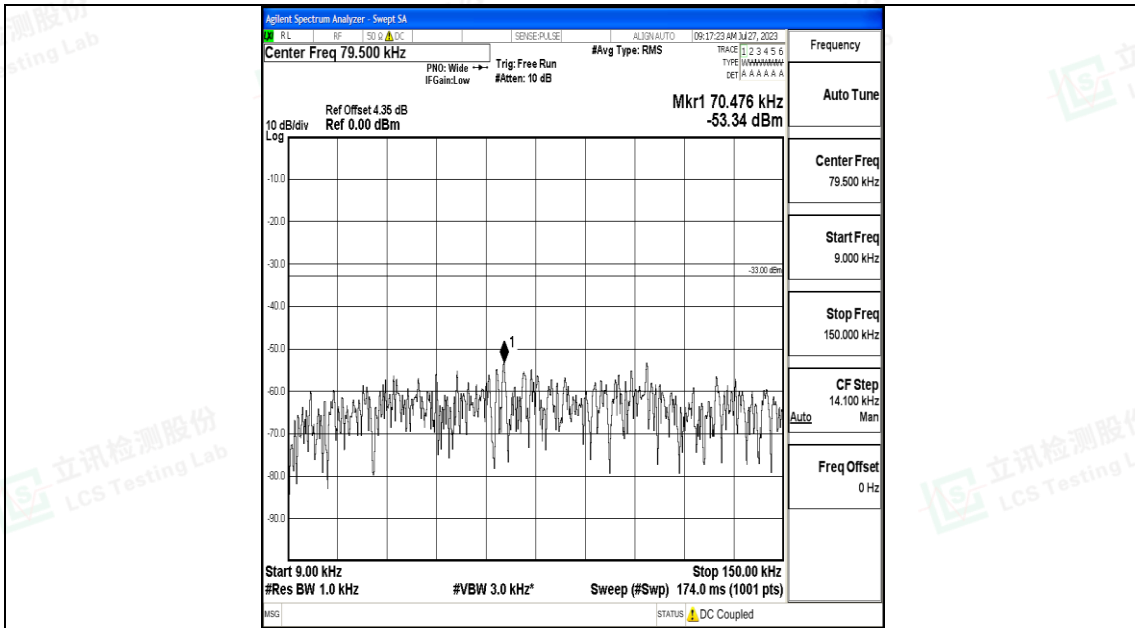


Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

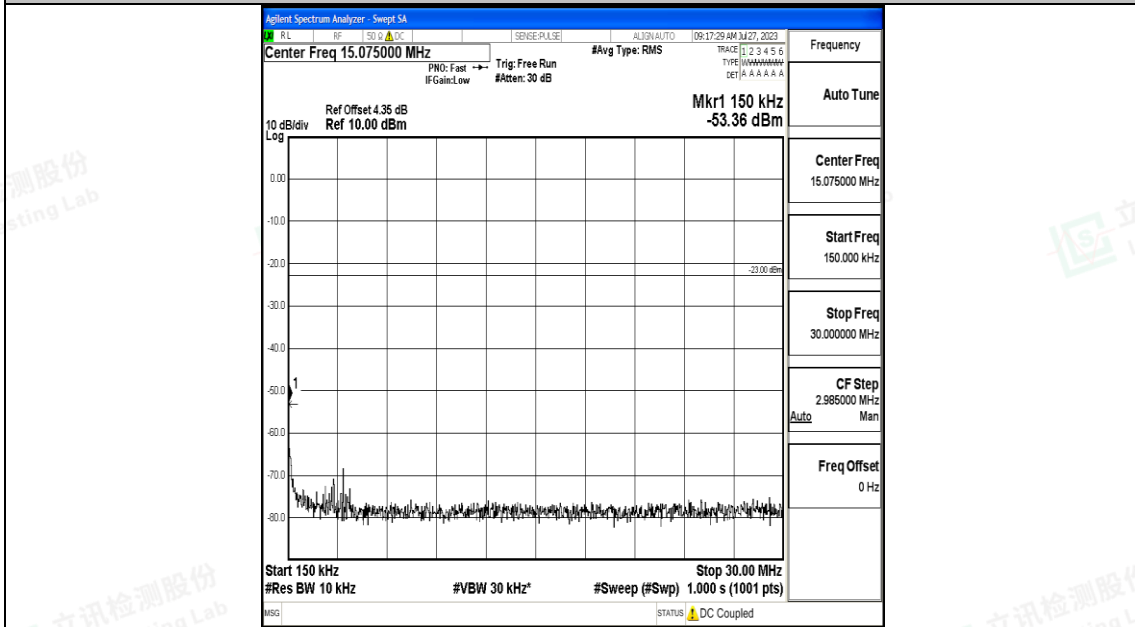


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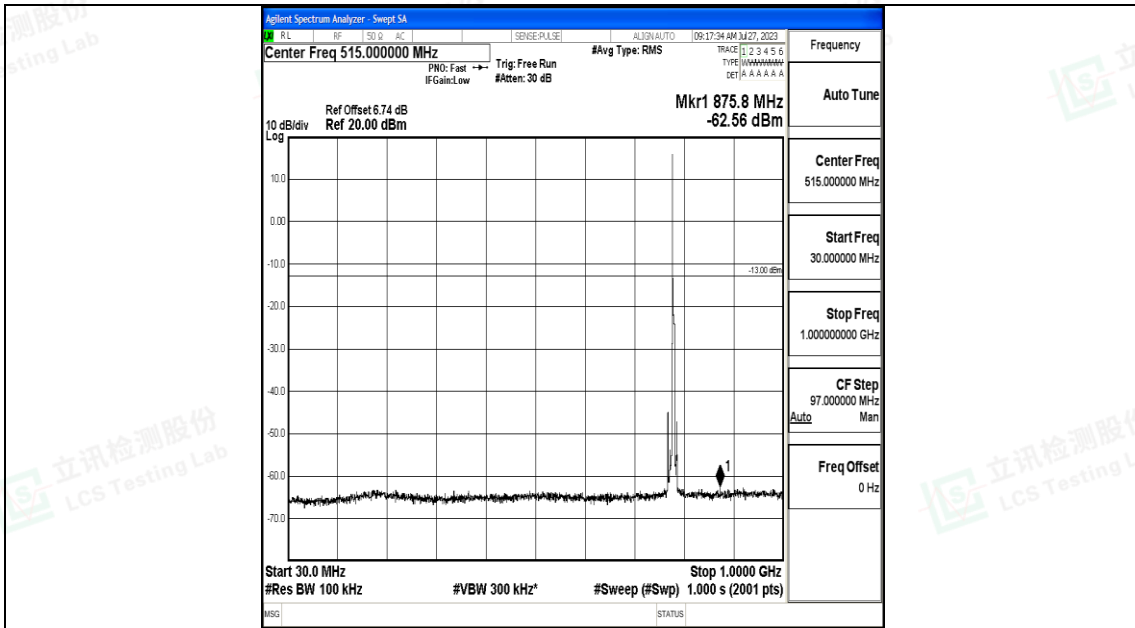


Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15

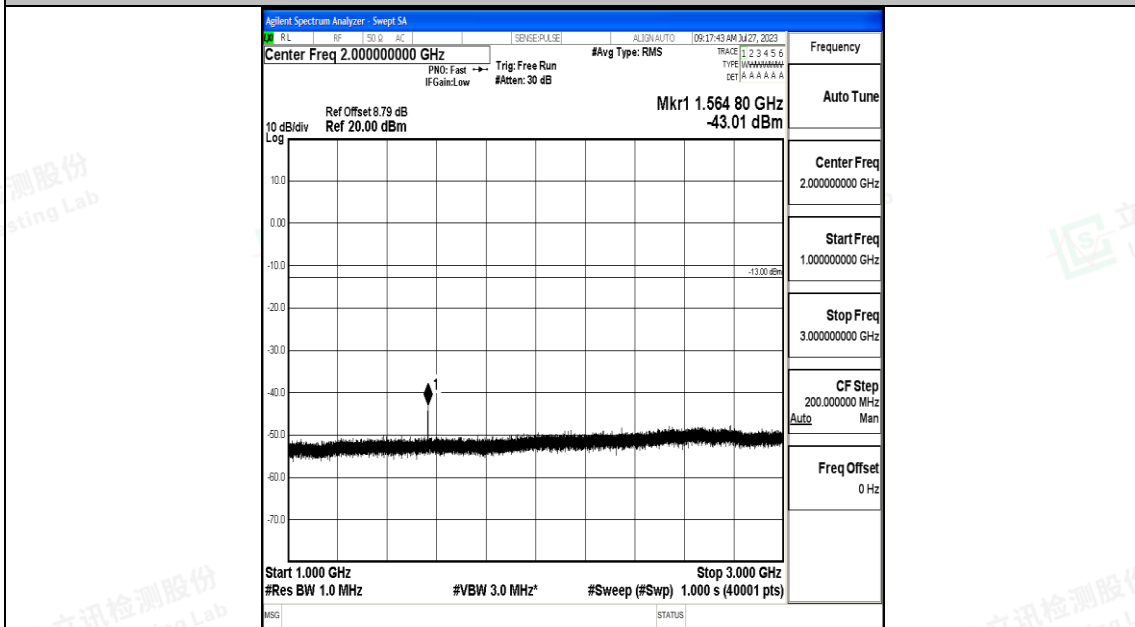


Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30



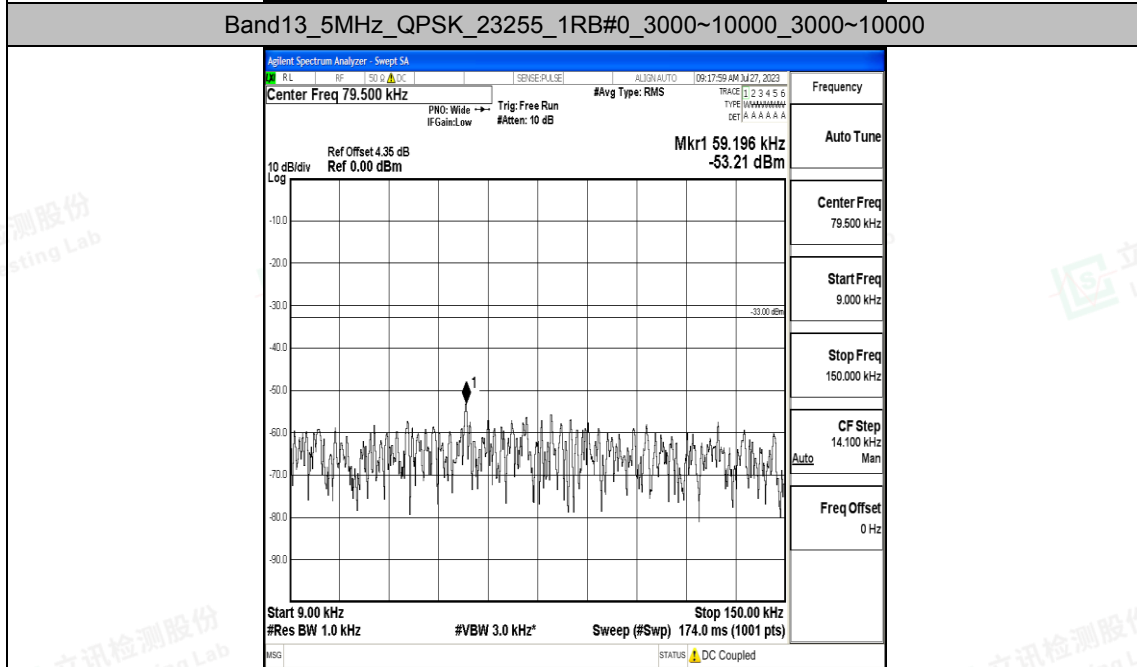
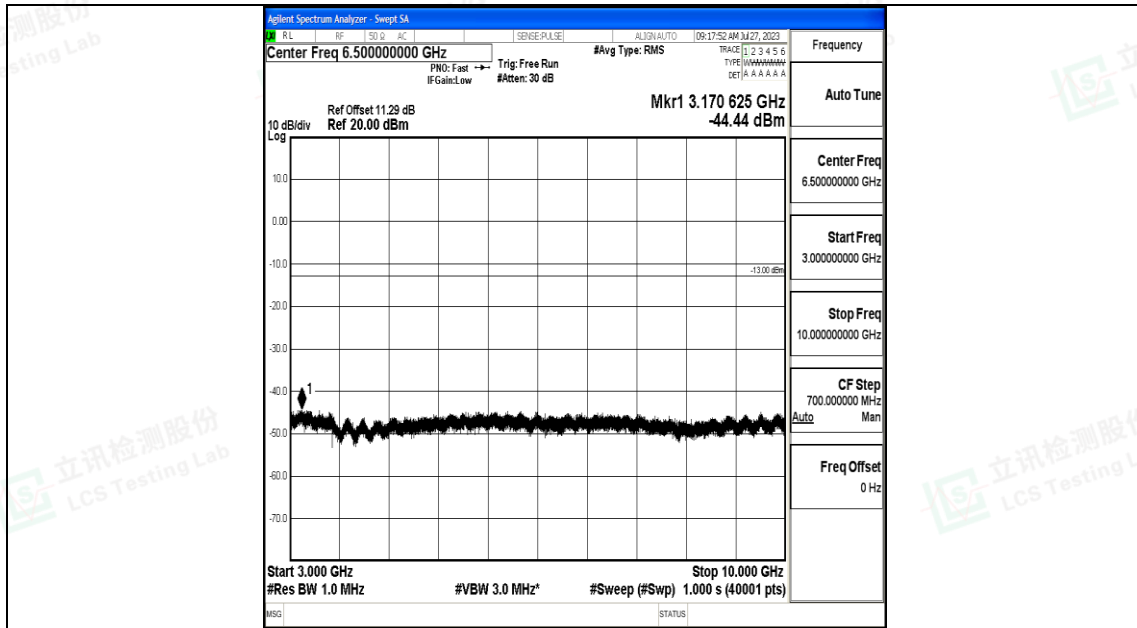


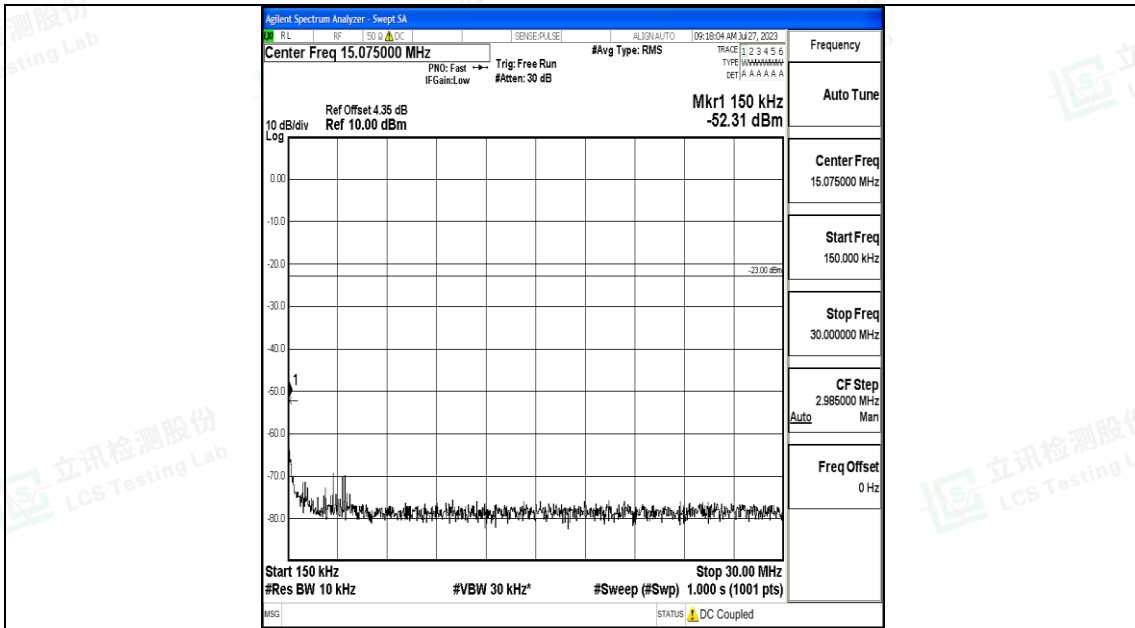
Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000



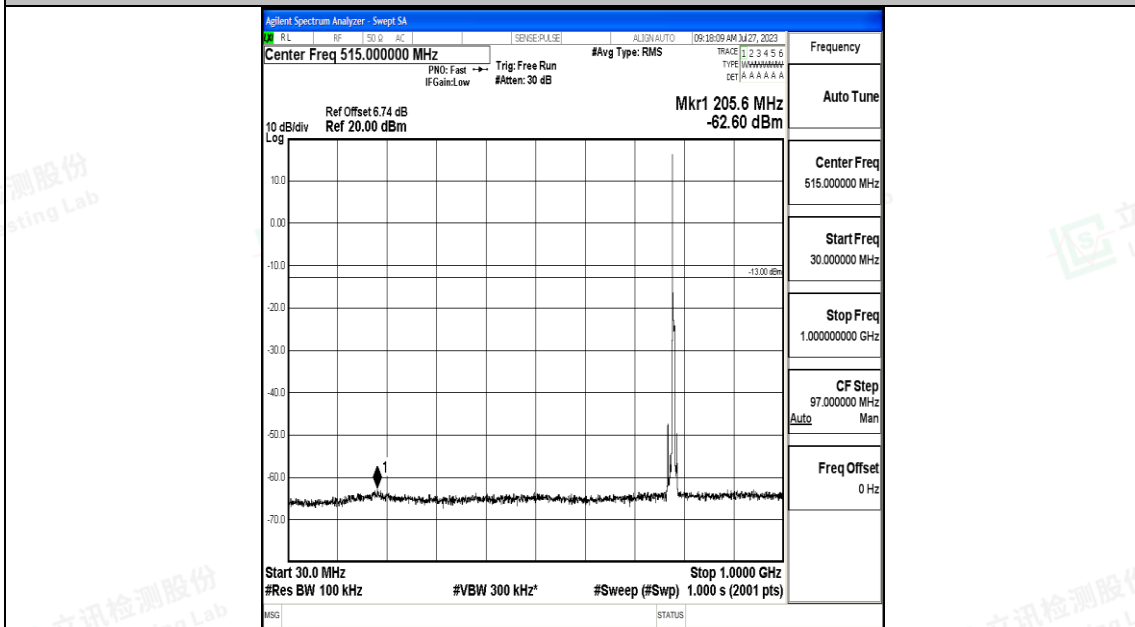
Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000





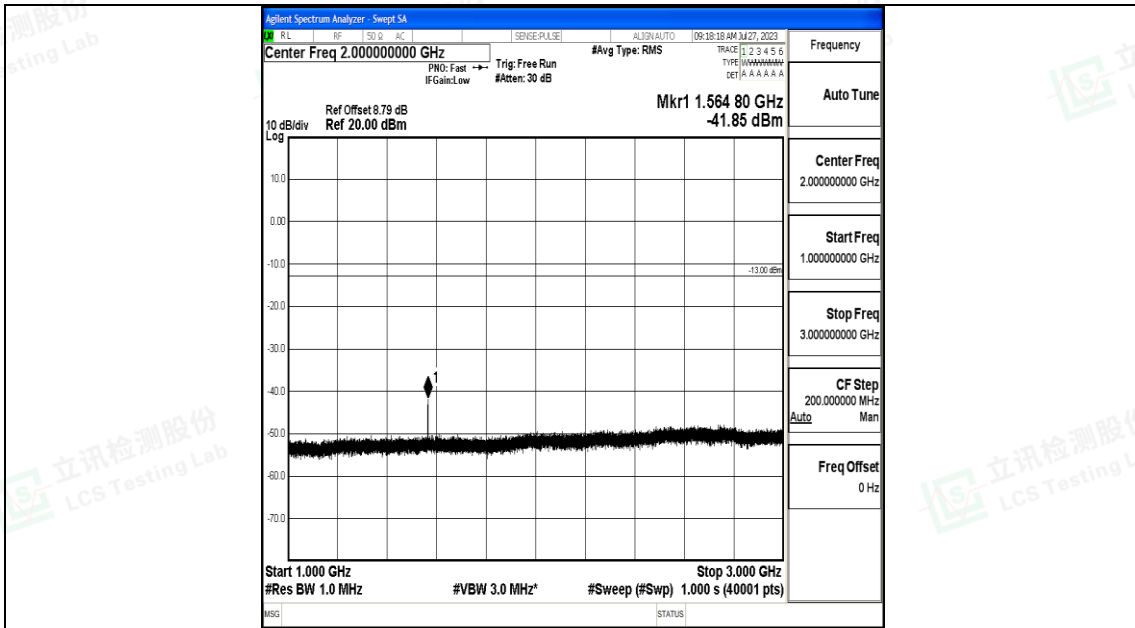


Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30

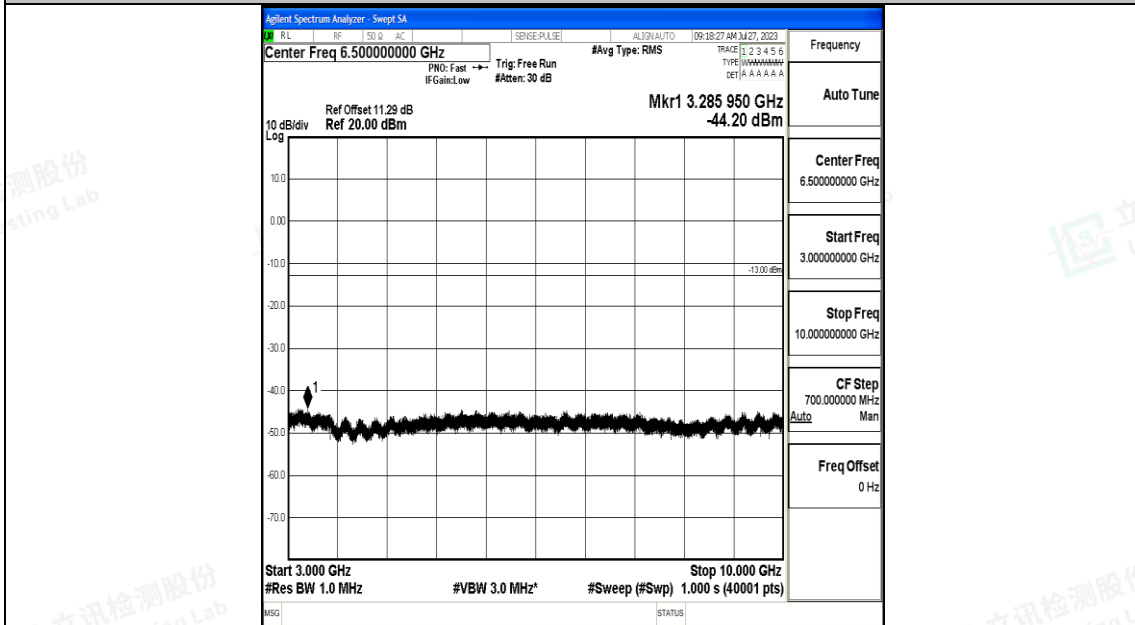


Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~1000



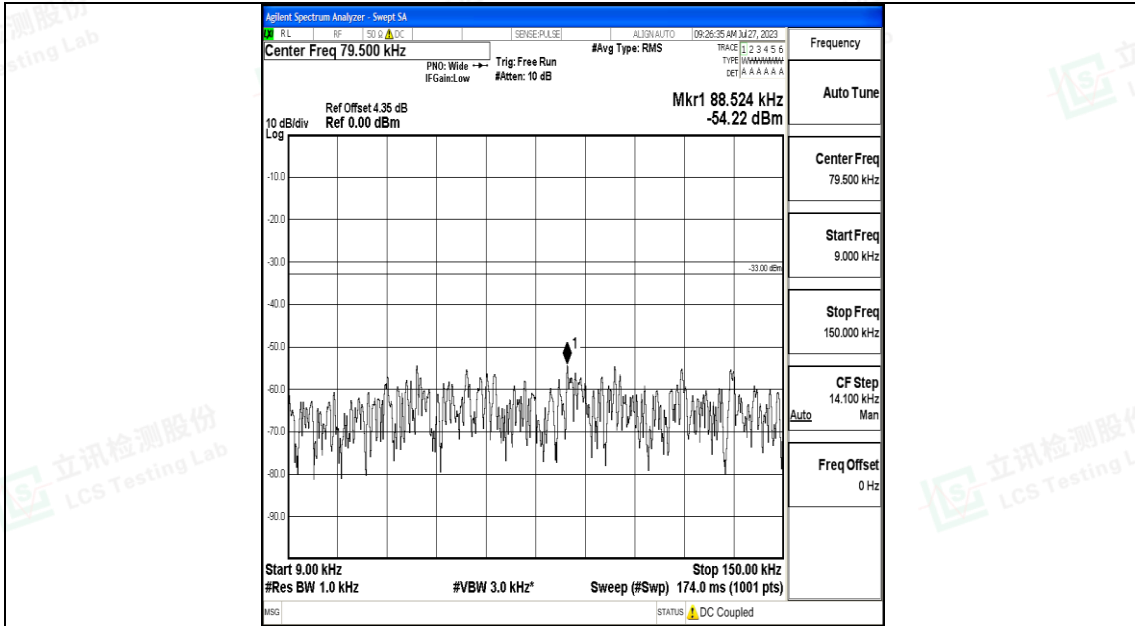


Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000

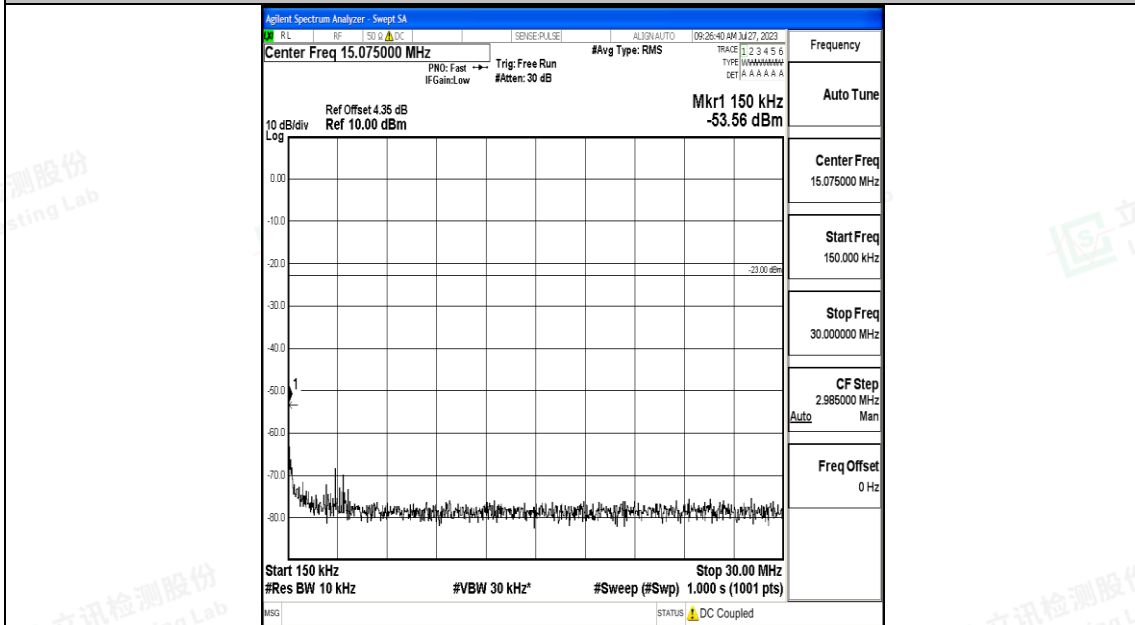


Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000



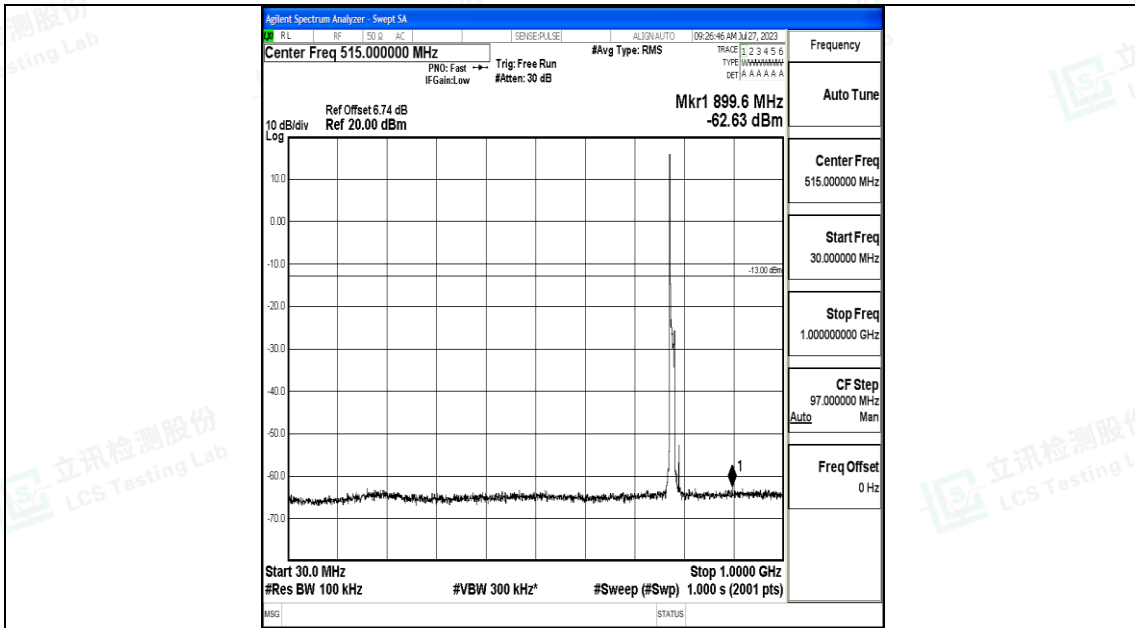


Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15

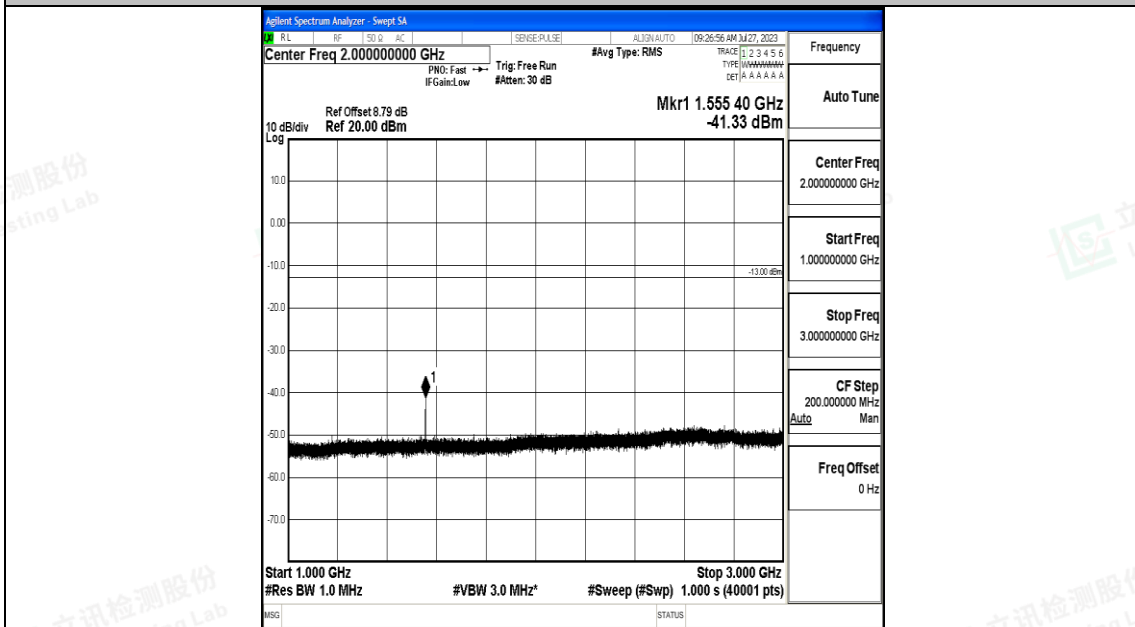


Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



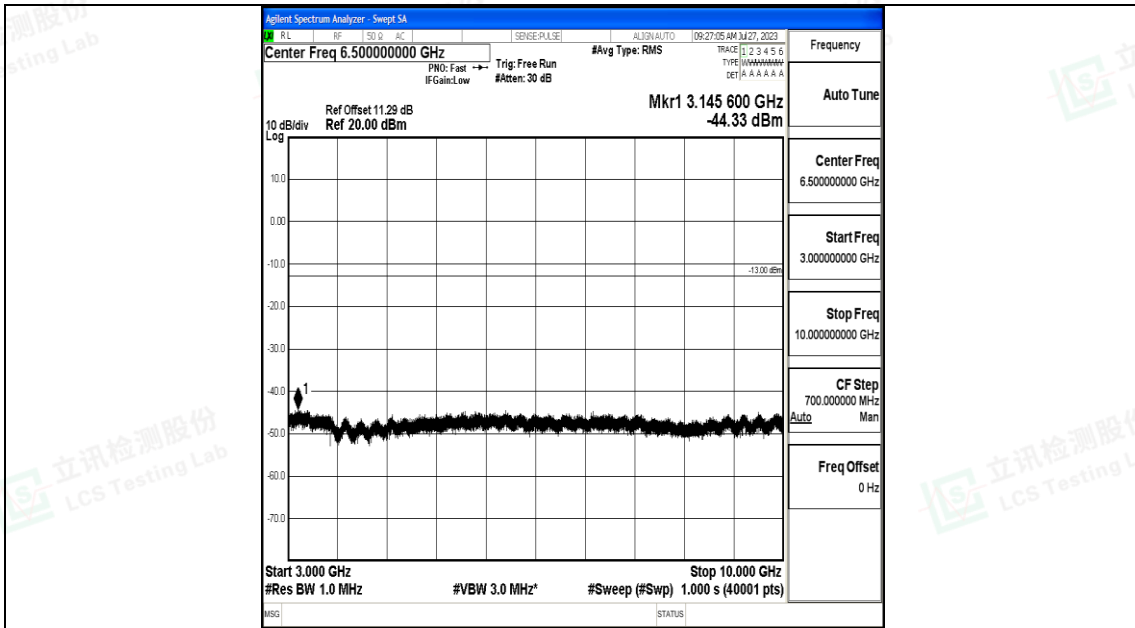


Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

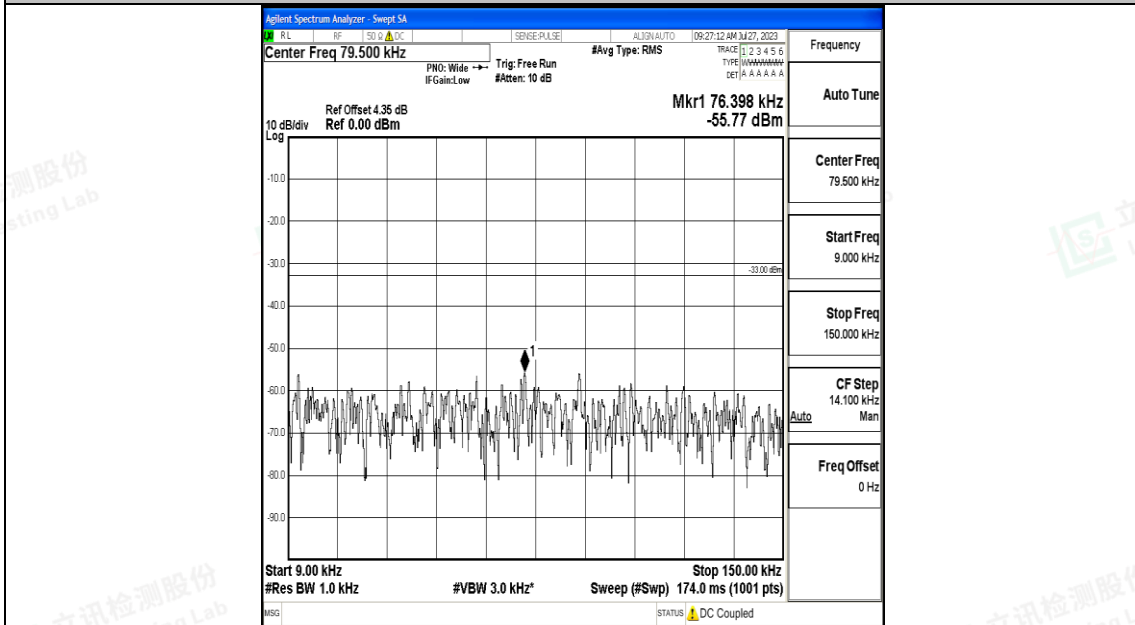


Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



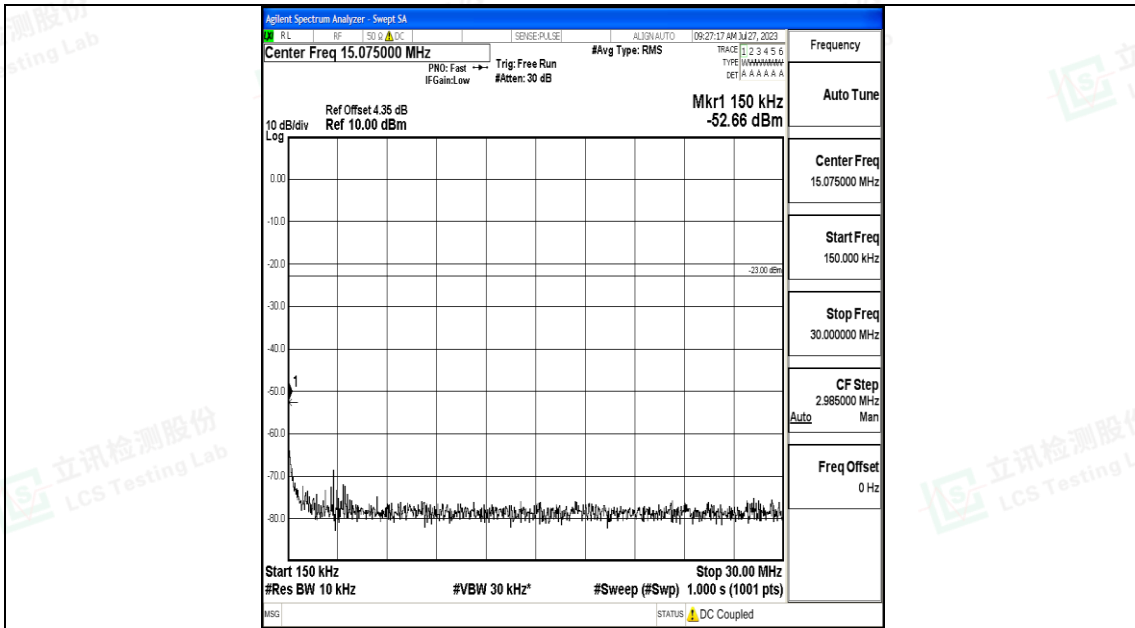


Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

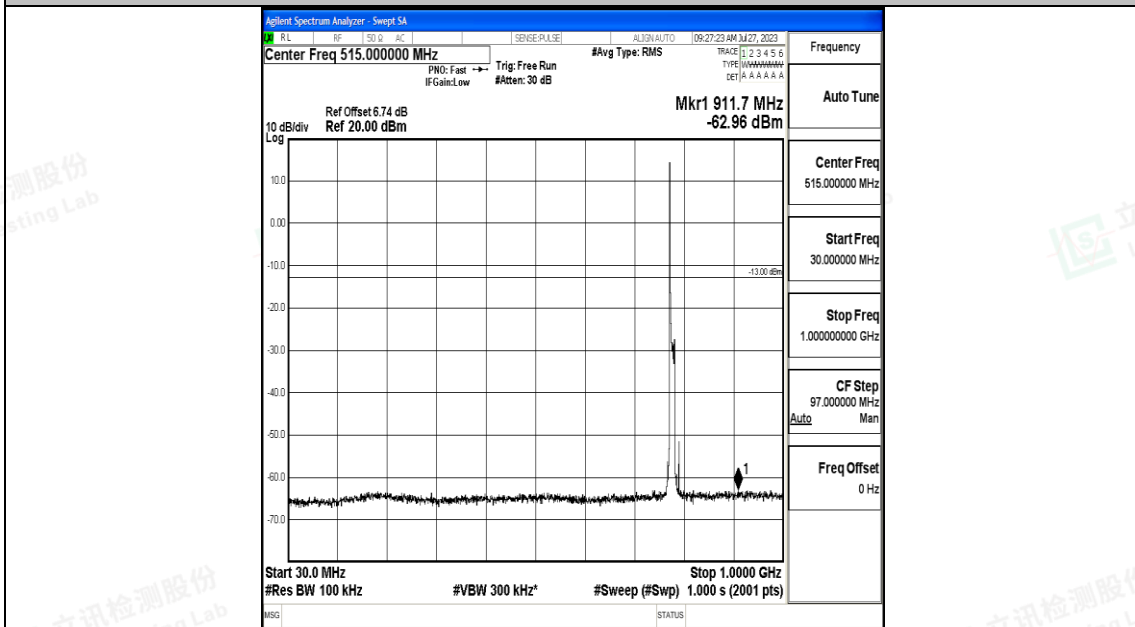


Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



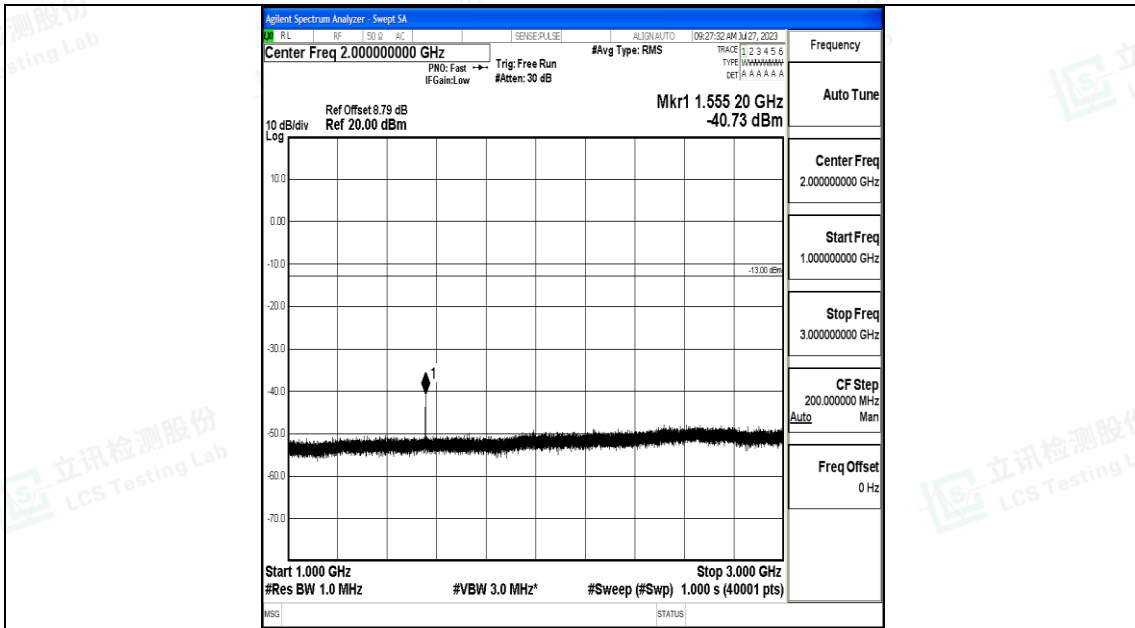


Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

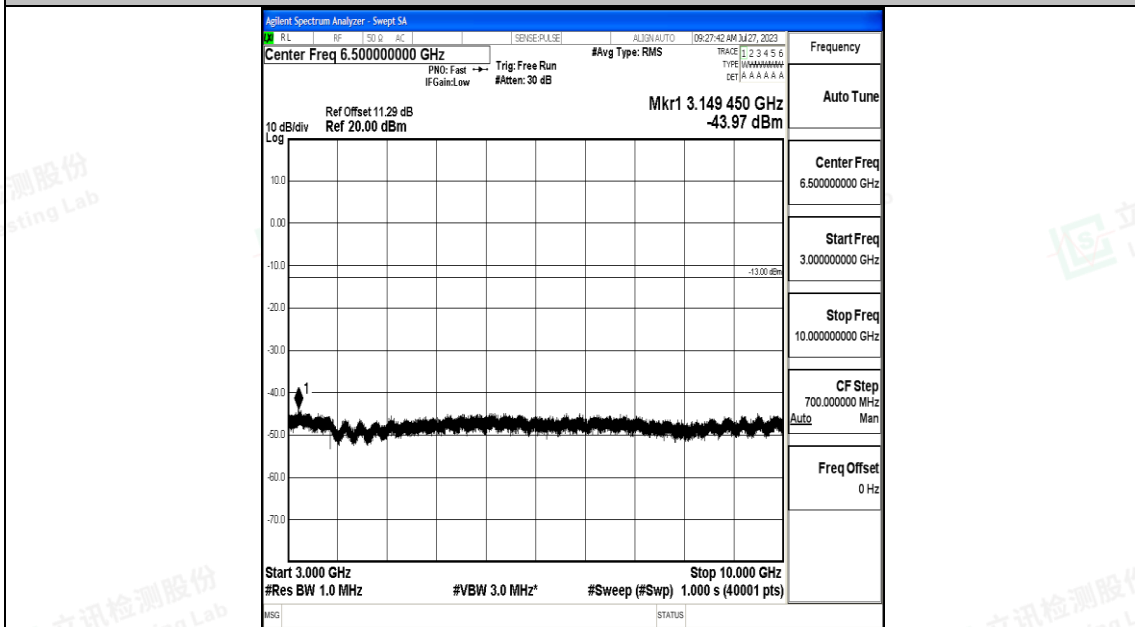


Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000





Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

