



Appendix J: Test Data for E-UTRA Band 17

Product Name: Orca Display 2

Test Model: O-0202

Environmental Conditions

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





J.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.49	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.41	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.47	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.39	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.39	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.25	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.32	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.36	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.41	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.29	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.32	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.30	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.18	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.26	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.36	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.29	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.26	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.17	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.20	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.13	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.15	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.35	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.30	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.36	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.39	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.40	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.21	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.36	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.54	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.54	PASS





Band17	5MHz	16QAM	23790	1RB#24	22.48	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.34	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.31	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.22	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.24	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.36	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.32	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.22	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.21	PASS
Band17	5MHz	16QAM	23825	12RB#6	21.18	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.17	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.22	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.35	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.34	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.17	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.30	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.31	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.12	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.22	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.33	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.35	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.13	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.26	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.27	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.11	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.24	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.24	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.31	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.12	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.28	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.28	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.12	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.24	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.49	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.50	PASS



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Scan code to check authenticity



Band17	10MHz	16QAM	23780	1RB#49	22.32	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.32	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.28	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.13	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.18	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.56	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.55	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.30	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.30	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.30	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.15	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.23	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.15	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.18	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.03	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.31	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.31	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.15	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.18	PASS





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

Test Result

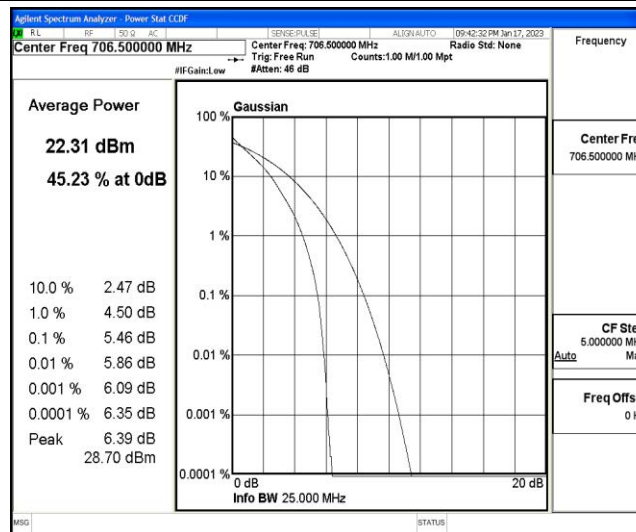
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.46	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.66	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.61	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.25	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.35	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.39	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.58	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.62	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.61	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.43	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.40	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.44	13	PASS



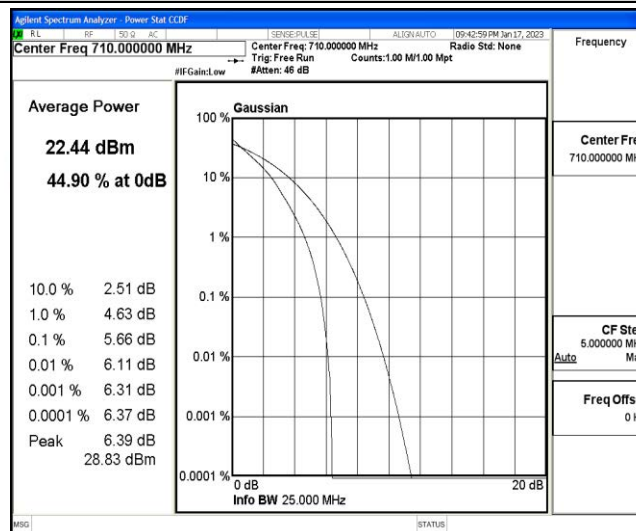


Test Graphs

Band17-5MHz-QPSK-23755-25RB#0

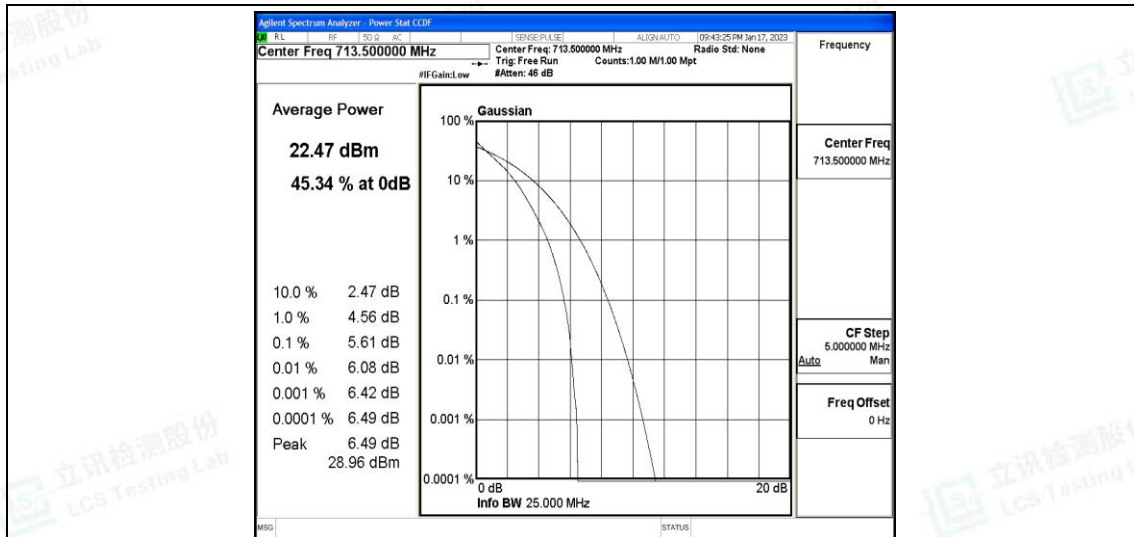


Band17-5MHz-QPSK-23790-25RB#0

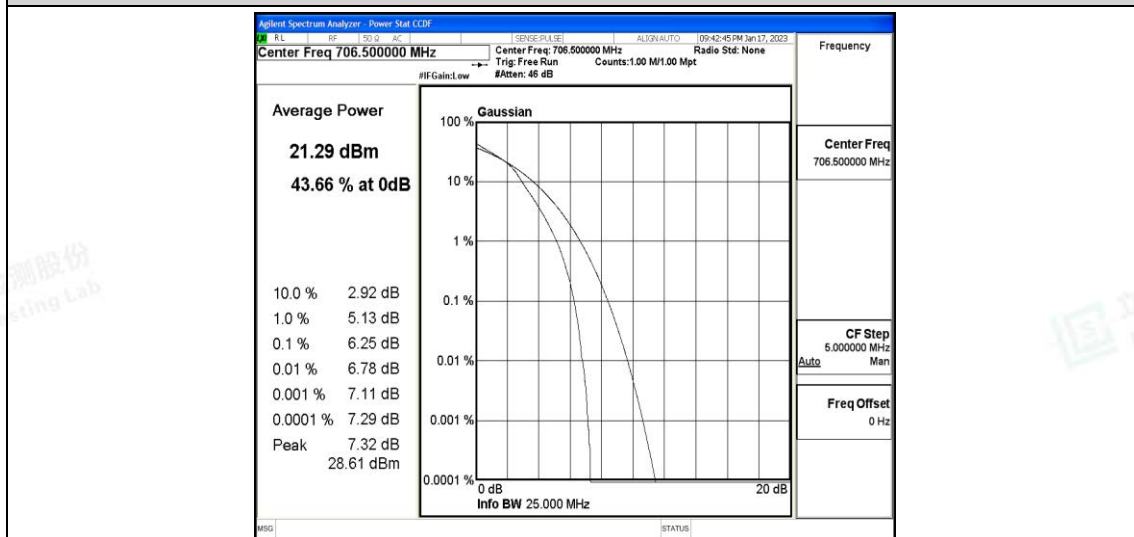


Band17-5MHz-QPSK-23825-25RB#0

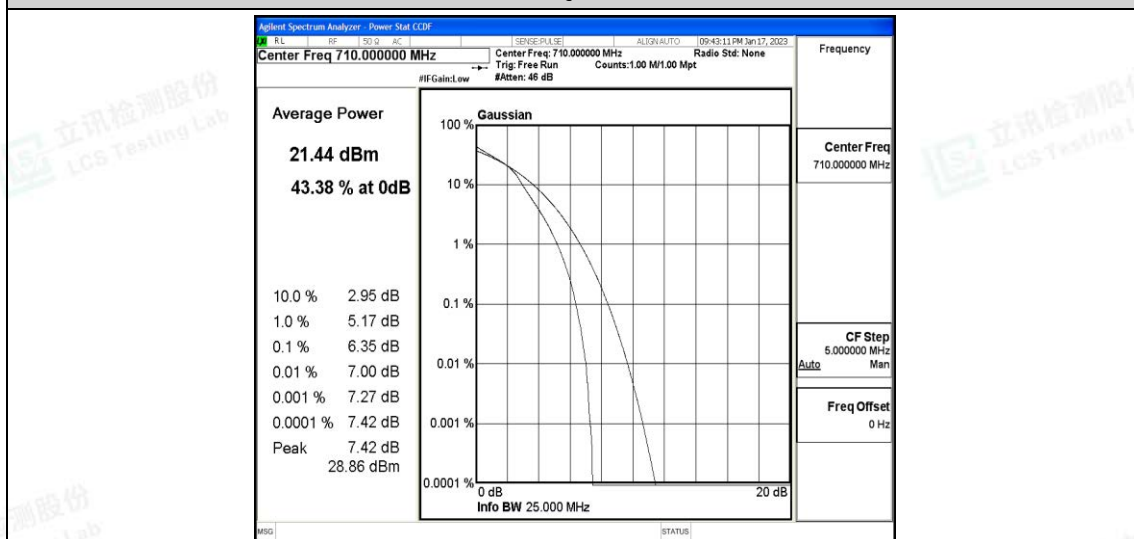




Band17-5MHz-16QAM-23755-25RB#0

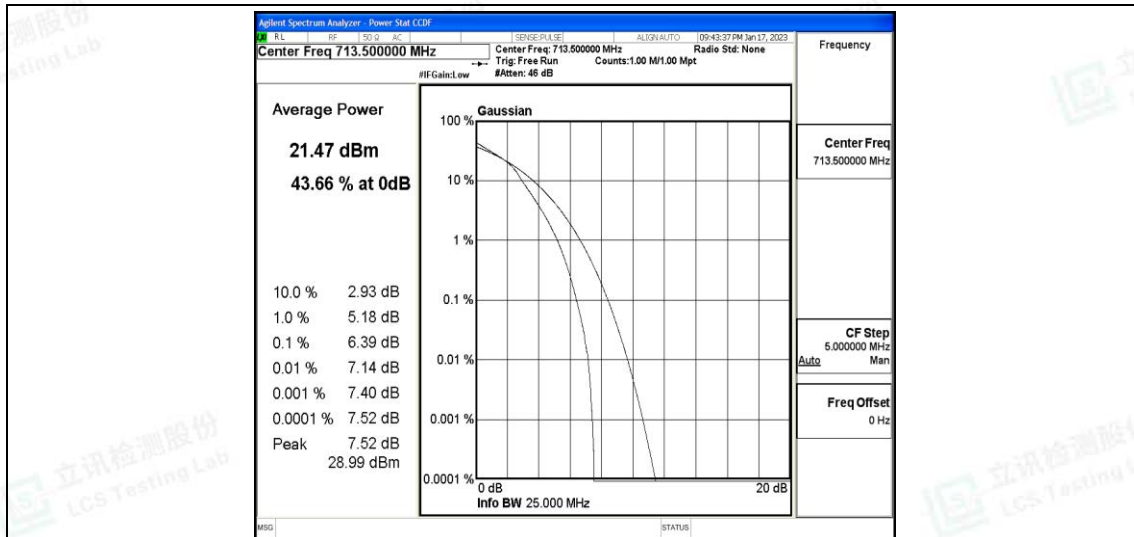


Band17-5MHz-16QAM-23790-25RB#0

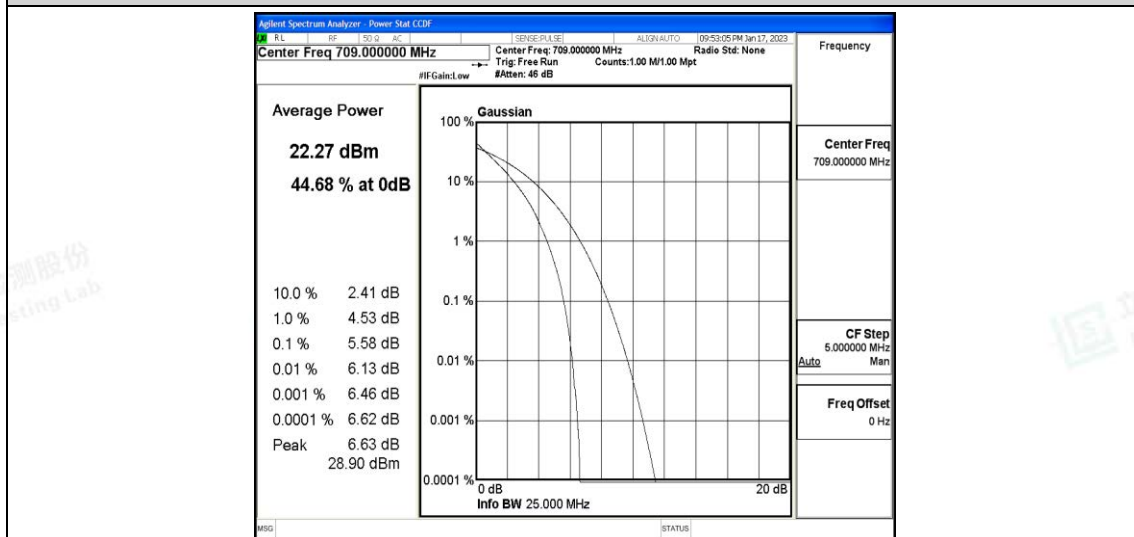


Band17-5MHz-16QAM-23825-25RB#0

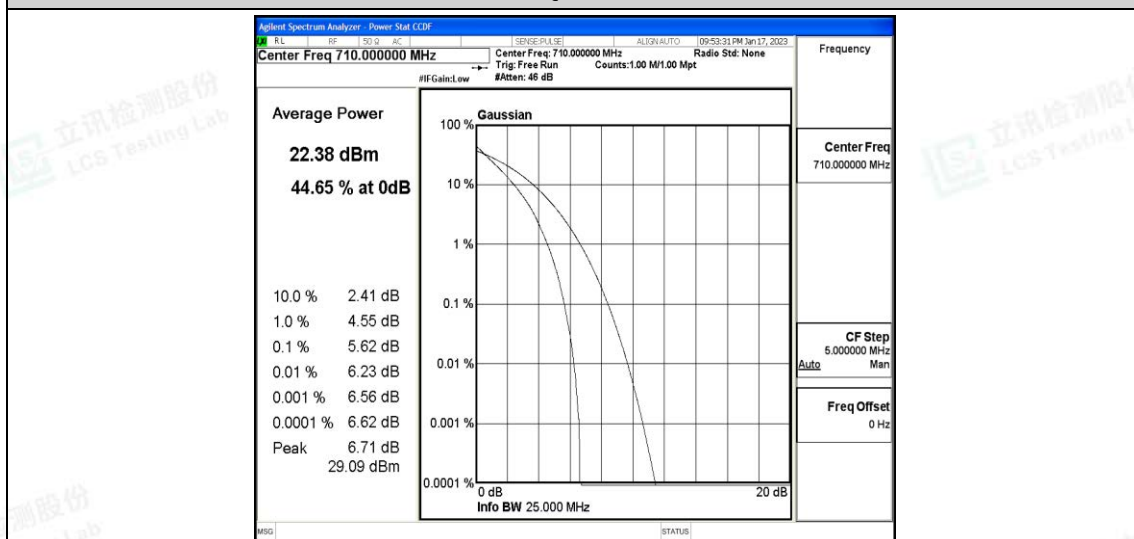




Band17-10MHz-QPSK-23780-50RB#0

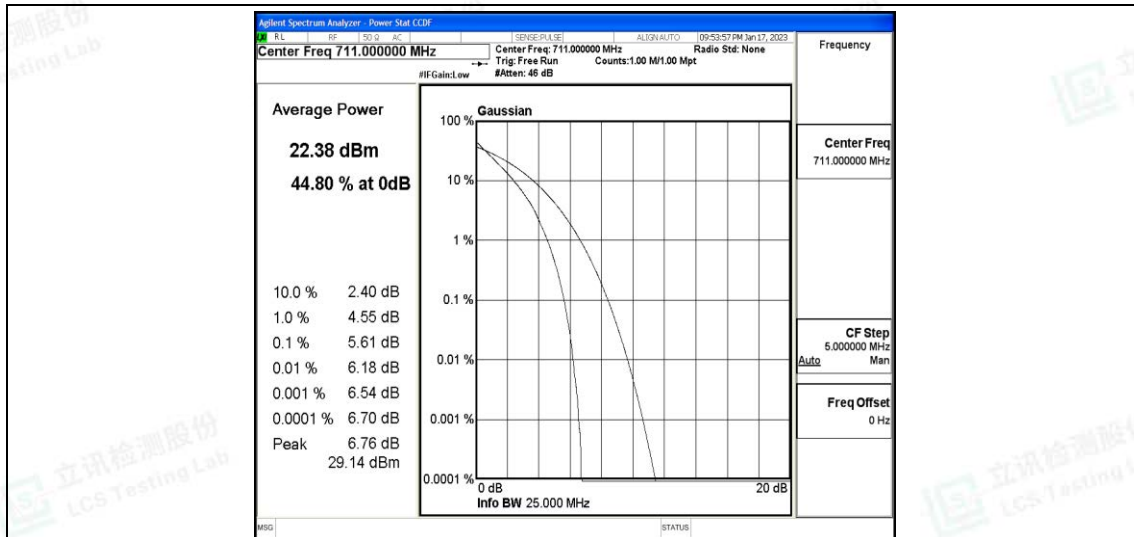


Band17-10MHz-QPSK-23790-50RB#0

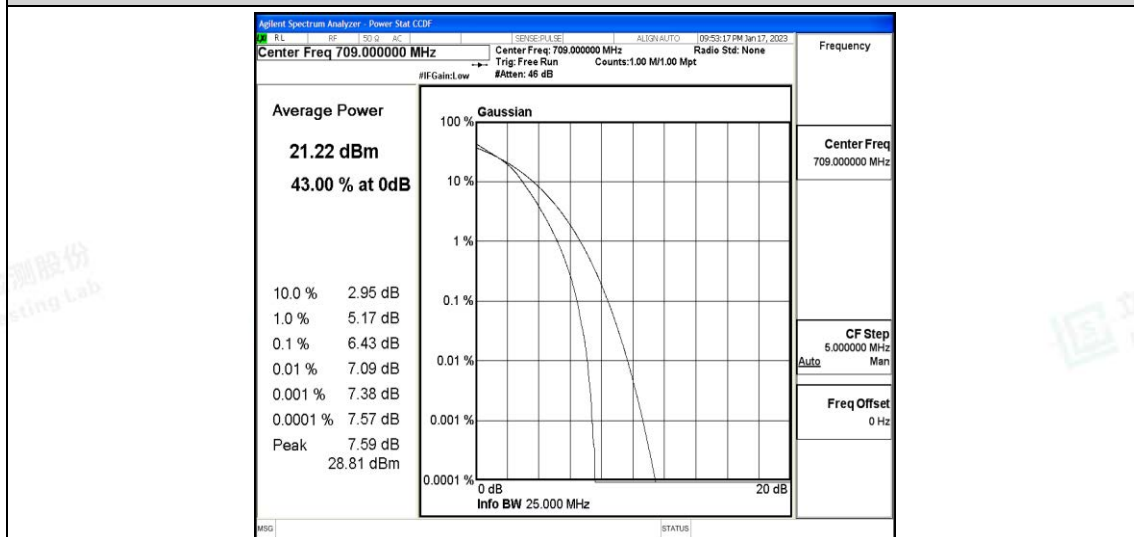


Band17-10MHz-QPSK-23800-50RB#0

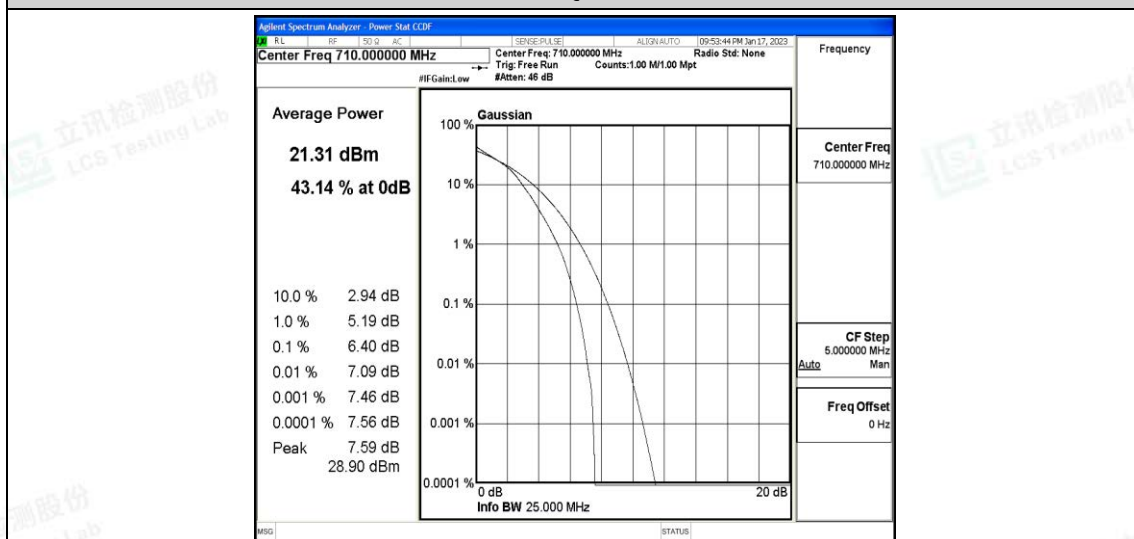




Band17-10MHz-16QAM-23780-50RB#0

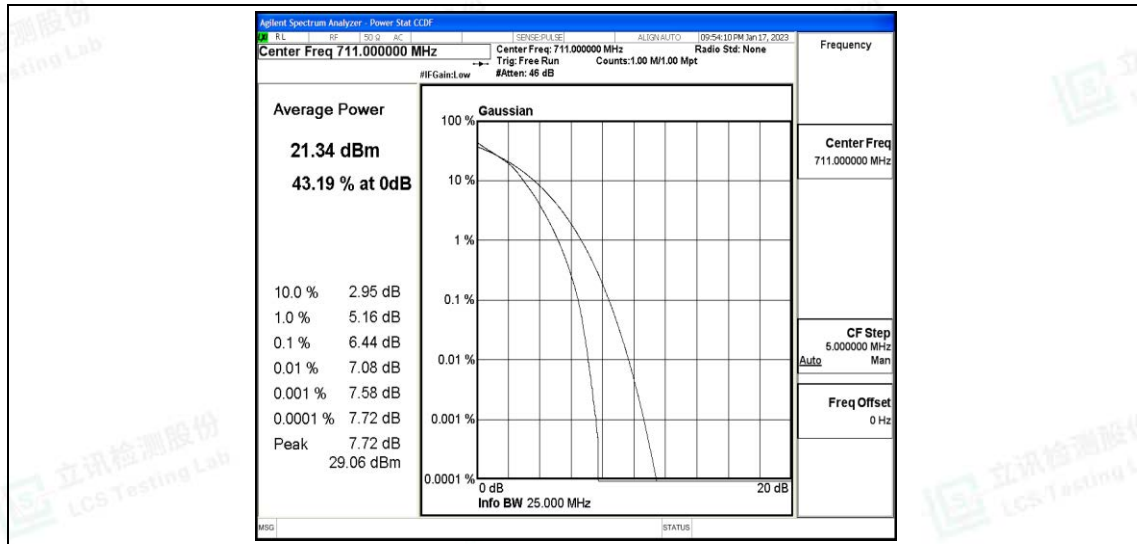


Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0







J.3 26dB Bandwidth and Occupied Bandwidth

Test Result

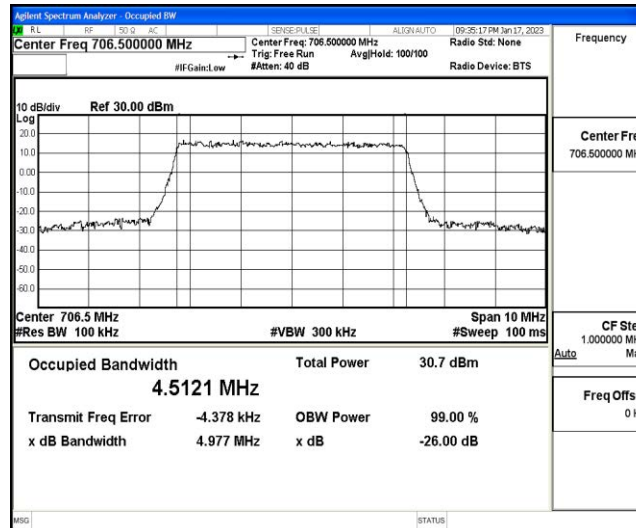
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5121	4.977	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5031	4.941	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.4946	4.957	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.4897	4.948	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5082	5.011	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5124	4.981	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9752	9.836	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9919	9.791	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9737	9.801	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9940	9.682	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9832	9.790	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9792	9.761	PASS



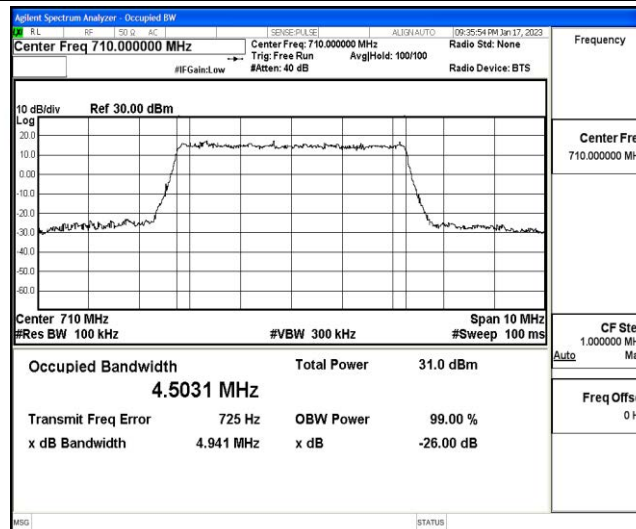


Test Graphs

Band17-5MHz-QPSK-23755-25RB#0

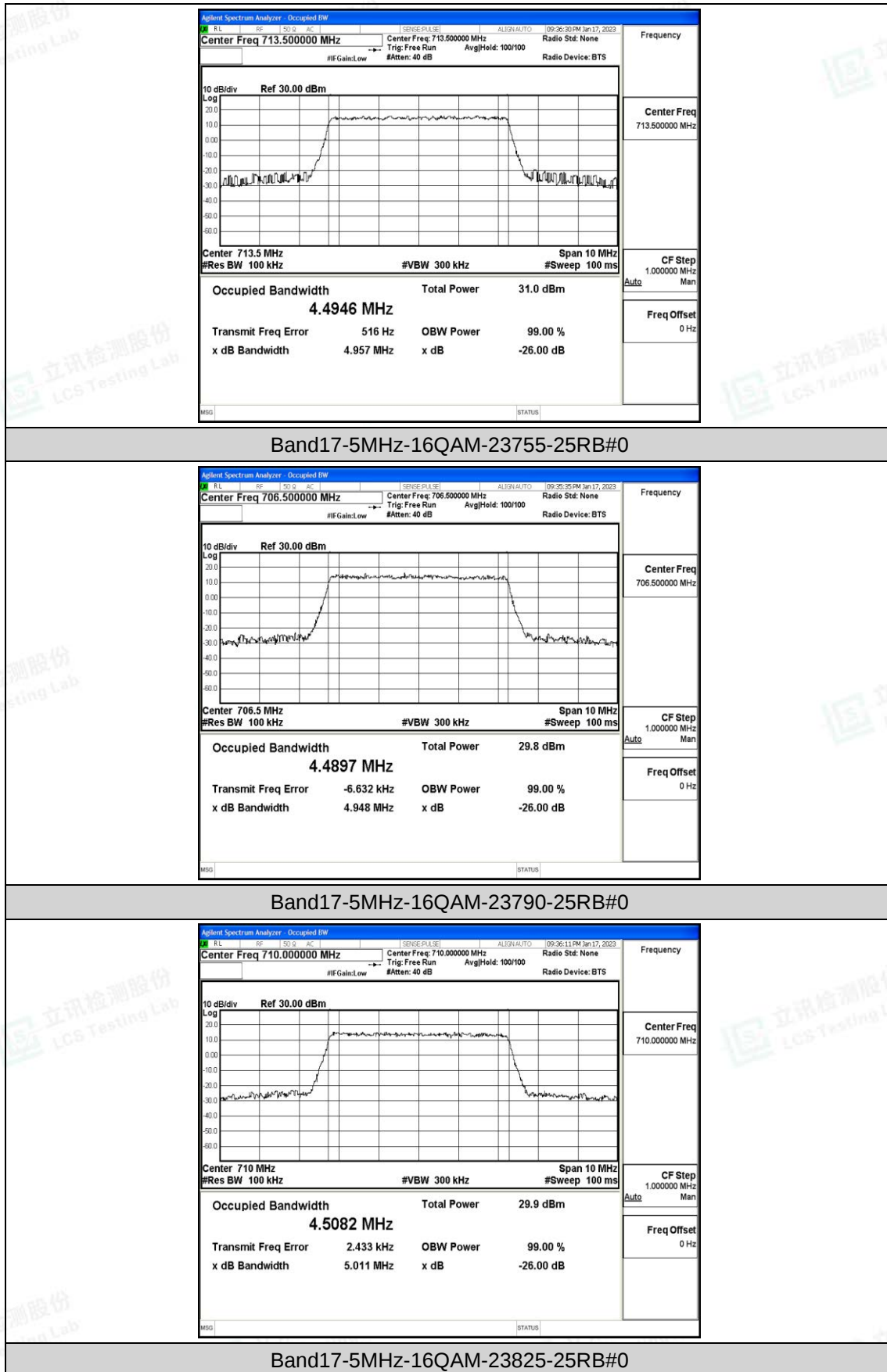


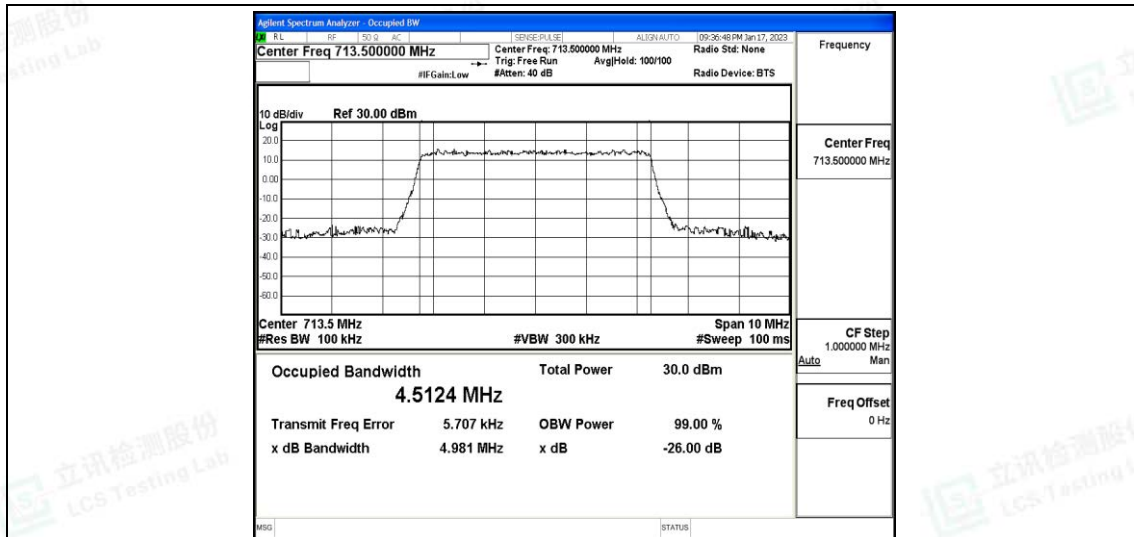
Band17-5MHz-QPSK-23790-25RB#0



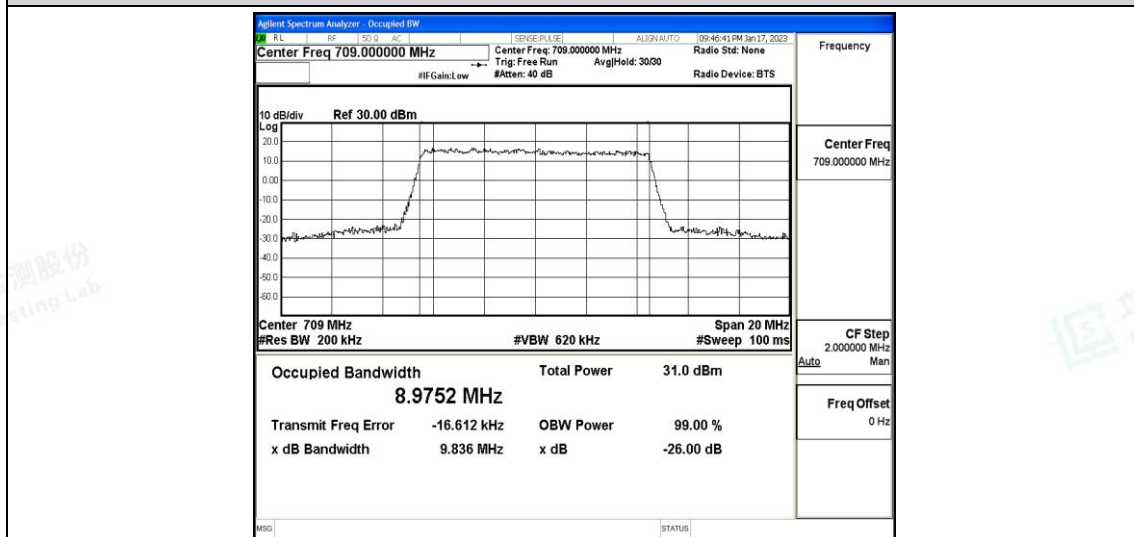
Band17-5MHz-QPSK-23825-25RB#0



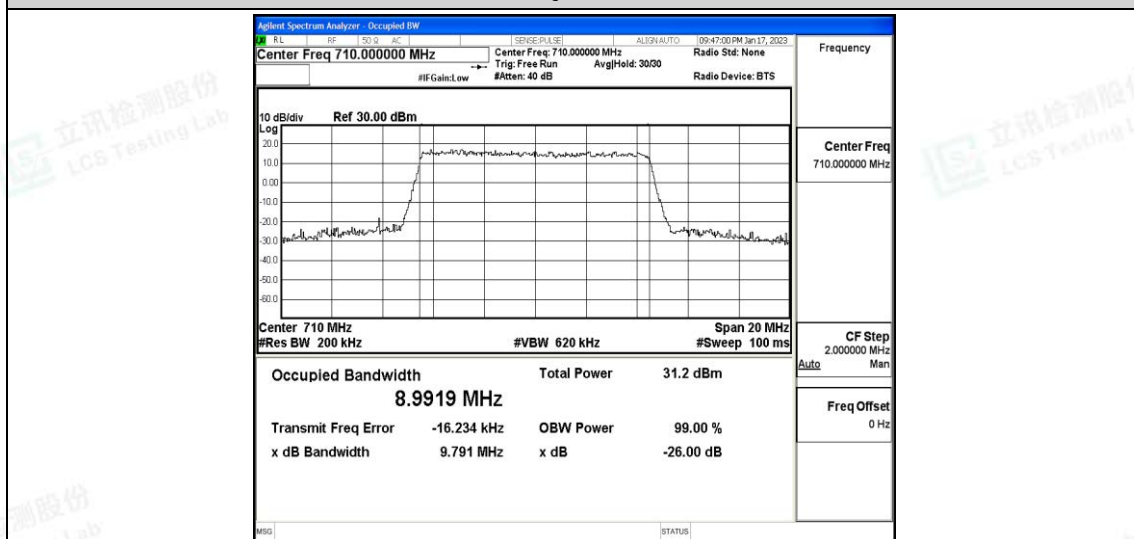




Band17-10MHz-QPSK-23780-50RB#0

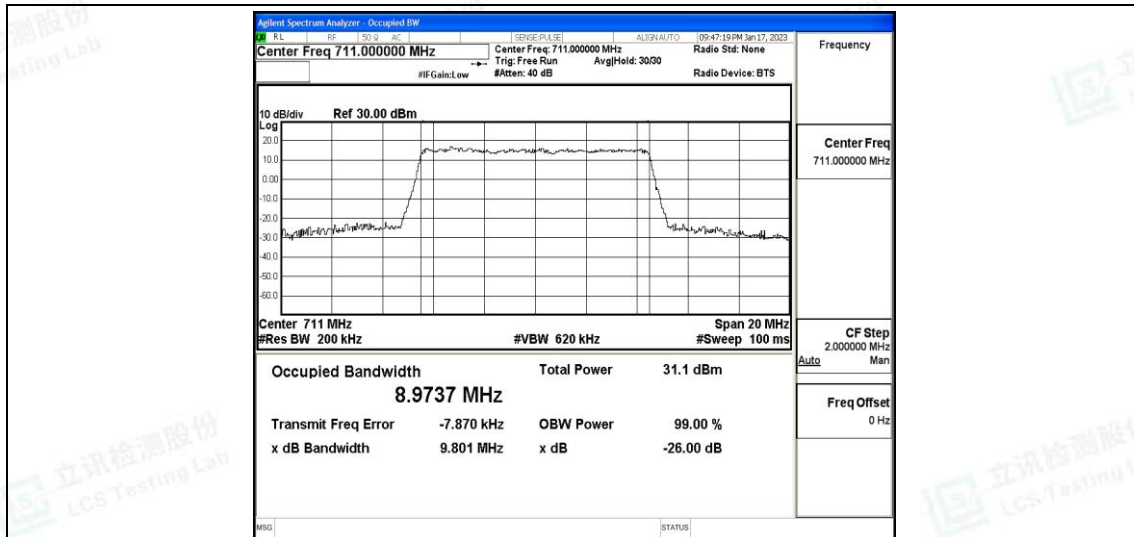


Band17-10MHz-QPSK-23790-50RB#0

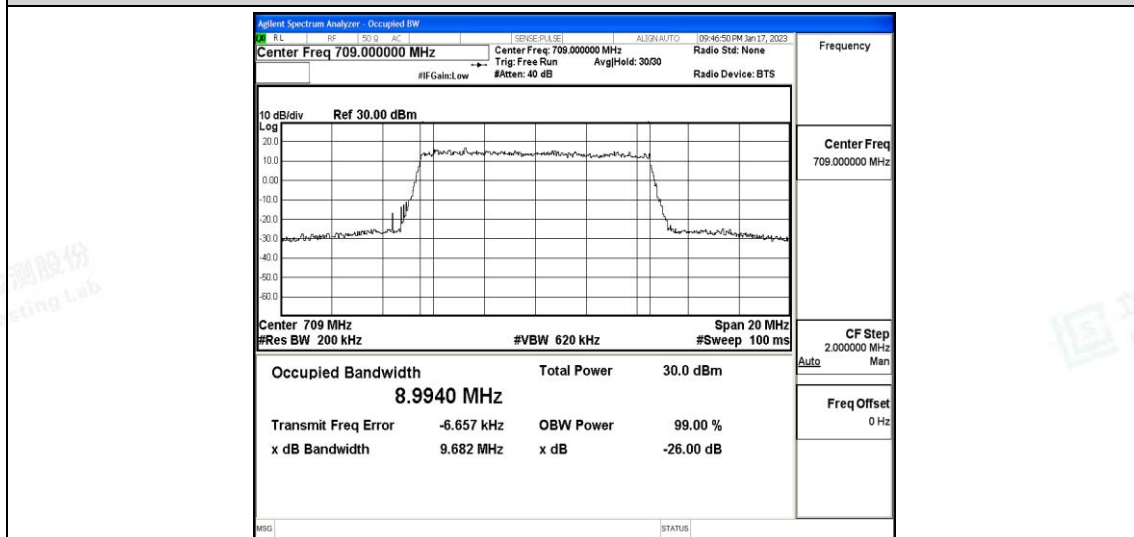


Band17-10MHz-QPSK-23800-50RB#0

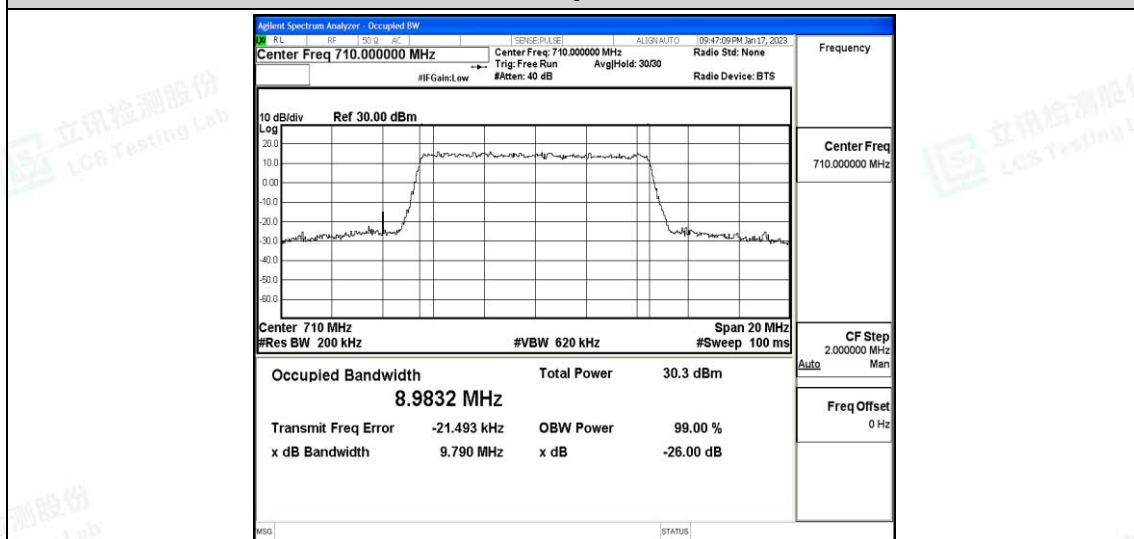




Band17-10MHz-16QAM-23780-50RB#0

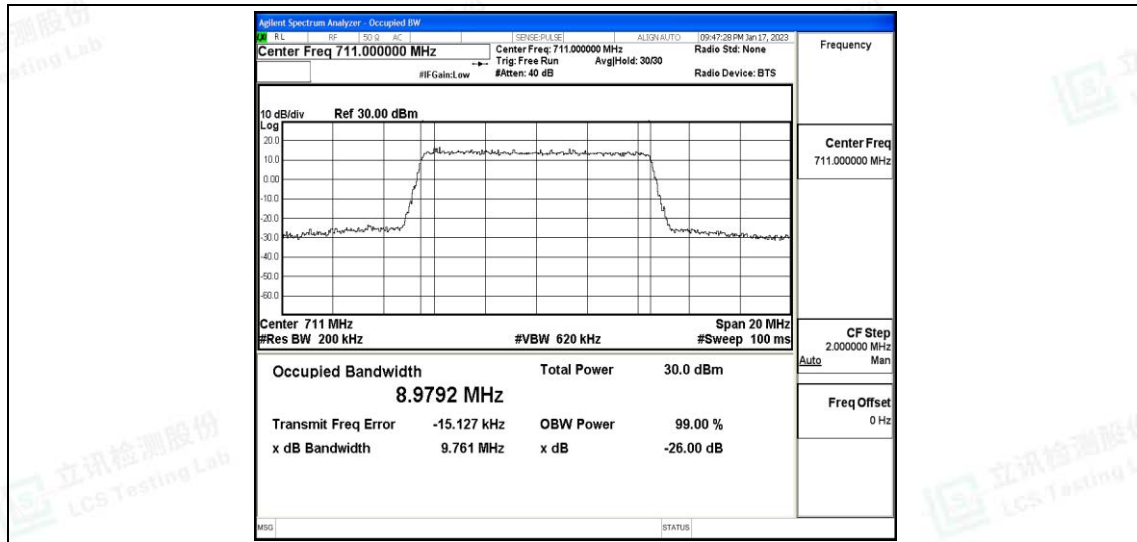


Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0





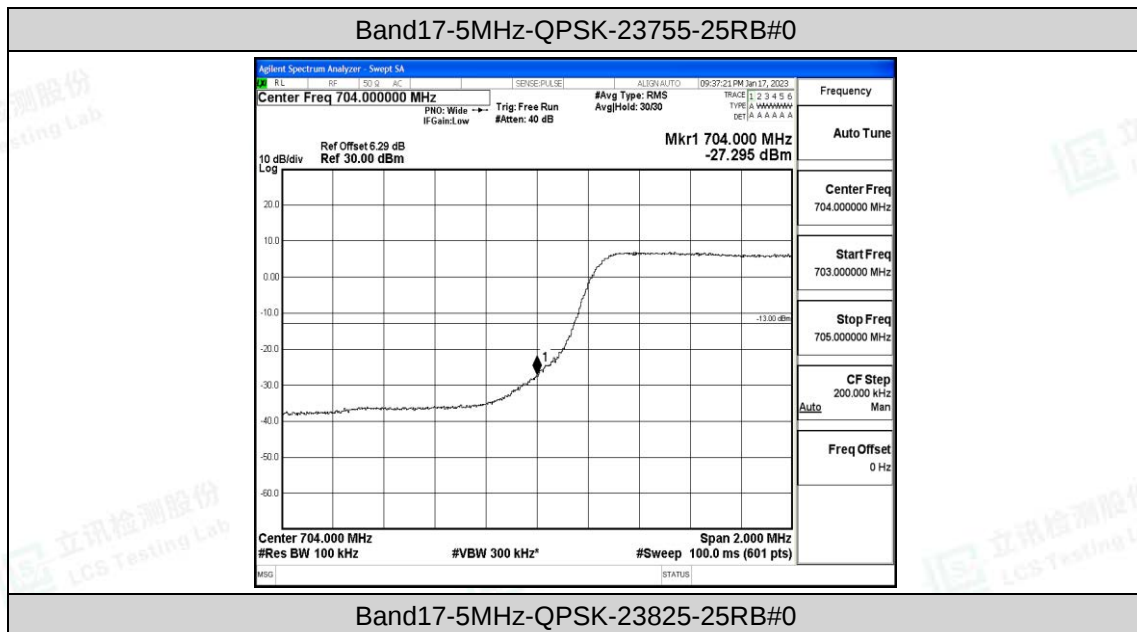


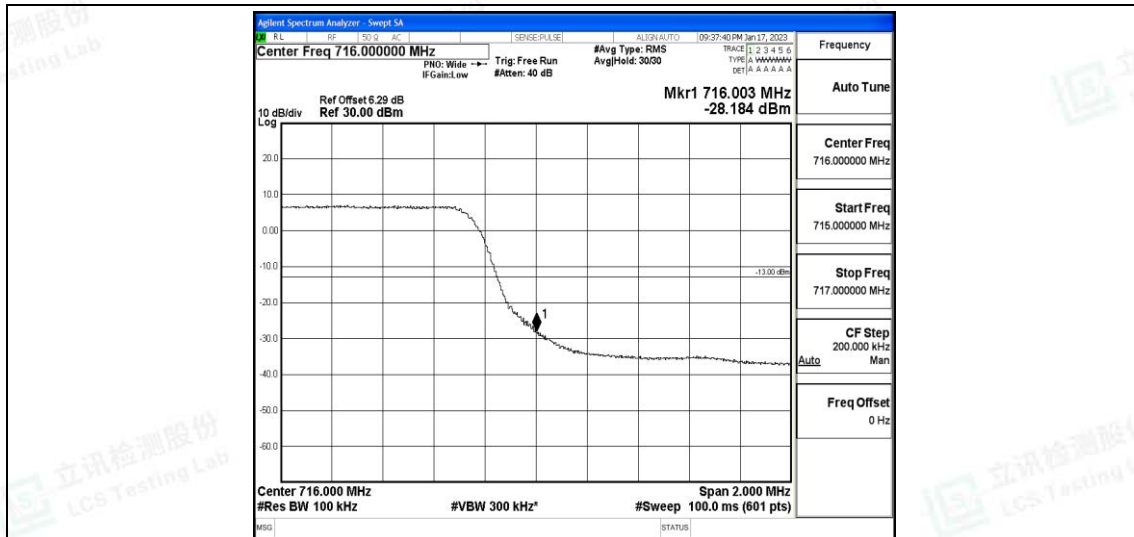
J.4 Band Edge

Test Result

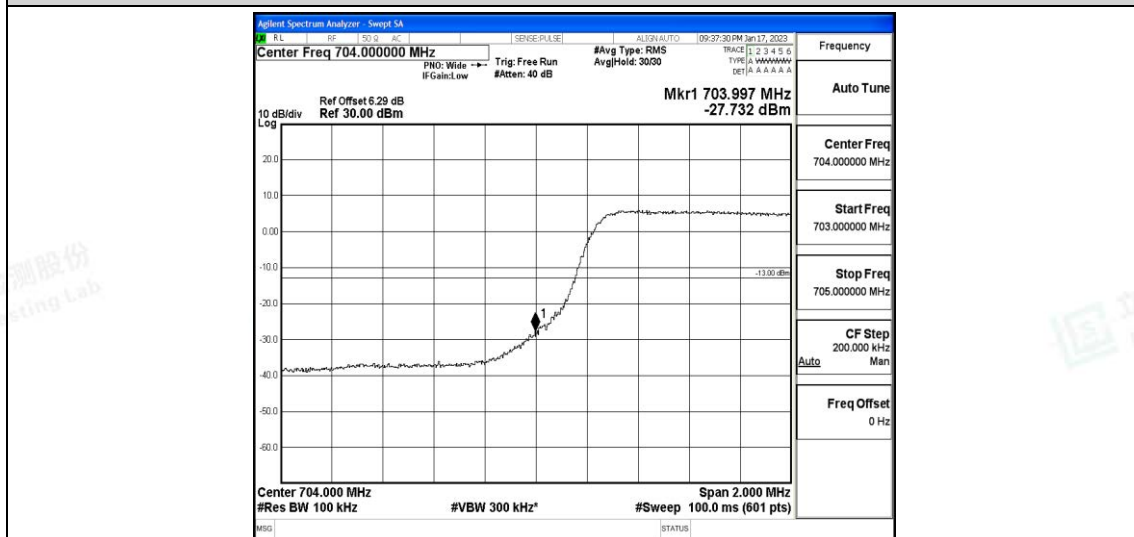
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-27.29	PASS
Band17	5MHz	QPSK	23825	25RB#0	-28.18	PASS
Band17	5MHz	16QAM	23755	25RB#0	-27.73	PASS
Band17	5MHz	16QAM	23825	25RB#0	-28.35	PASS
Band17	10MHz	QPSK	23780	50RB#0	-32.03,-29.97	PASS
Band17	10MHz	QPSK	23800	50RB#0	-31.53,-32.95	PASS
Band17	10MHz	16QAM	23780	50RB#0	-33.18,-31.19	PASS
Band17	10MHz	16QAM	23800	50RB#0	-31.94,-33.46	PASS

Test Graphs

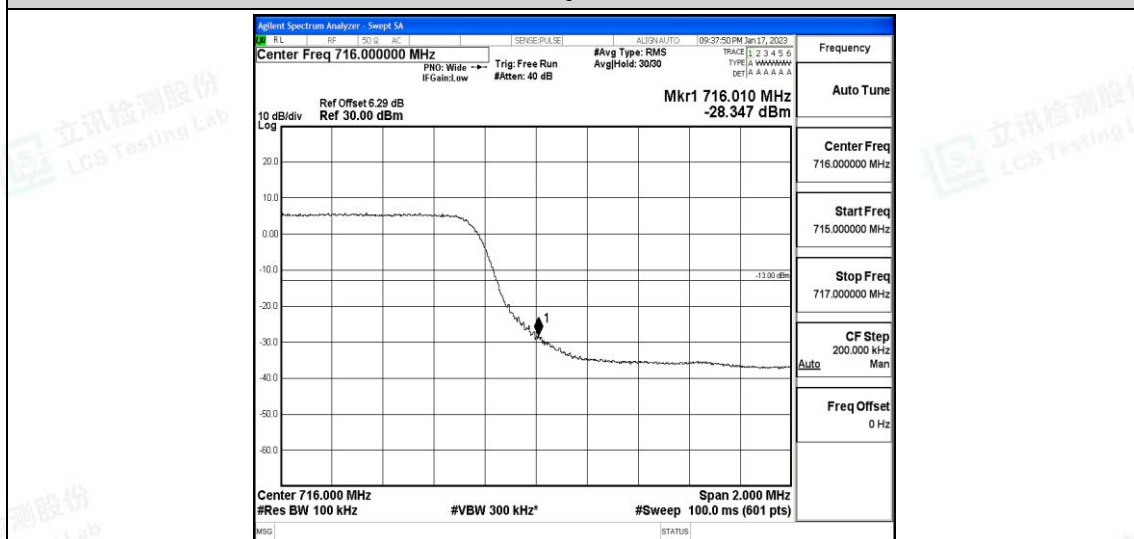




Band17-5MHz-16QAM-23755-25RB#0

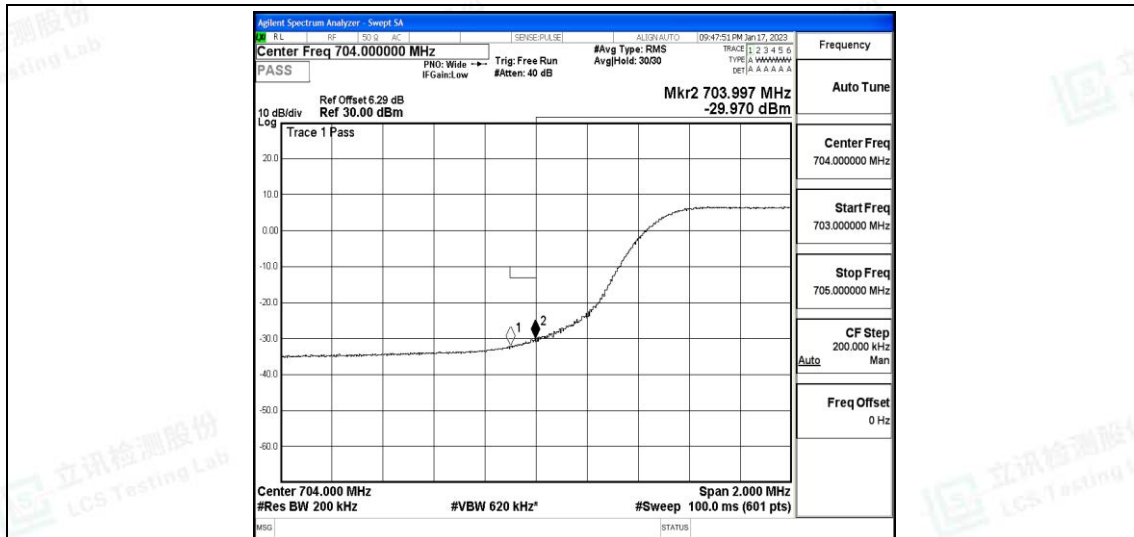


Band17-5MHz-16QAM-23825-25RB#0

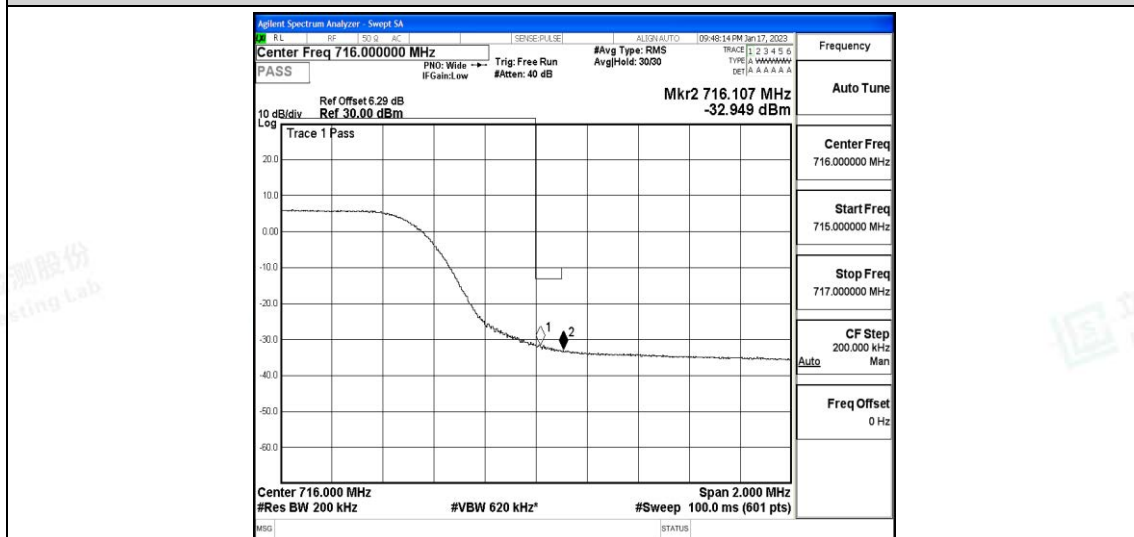


Band17-10MHz-QPSK-23780-50RB#0

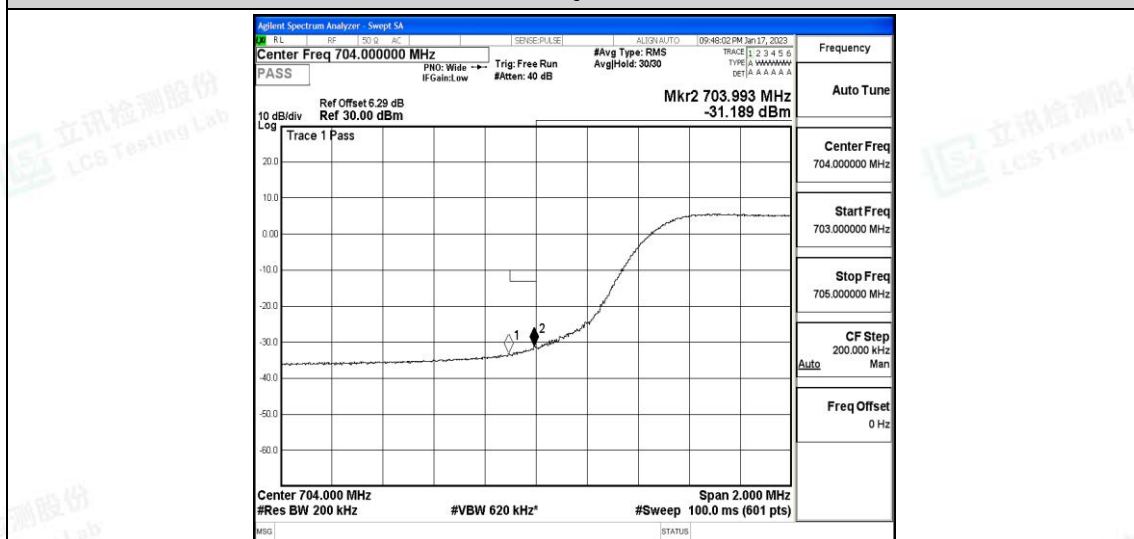




Band17-10MHz-QPSK-23800-50RB#0

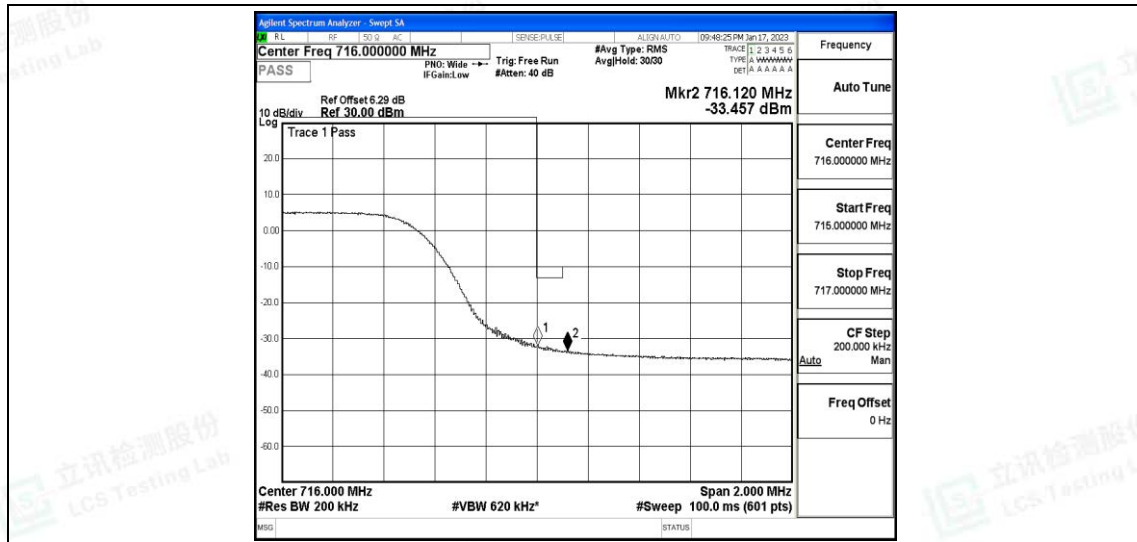


Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23800-50RB#0







J.5 Conducted Spurious Emission

Test Result

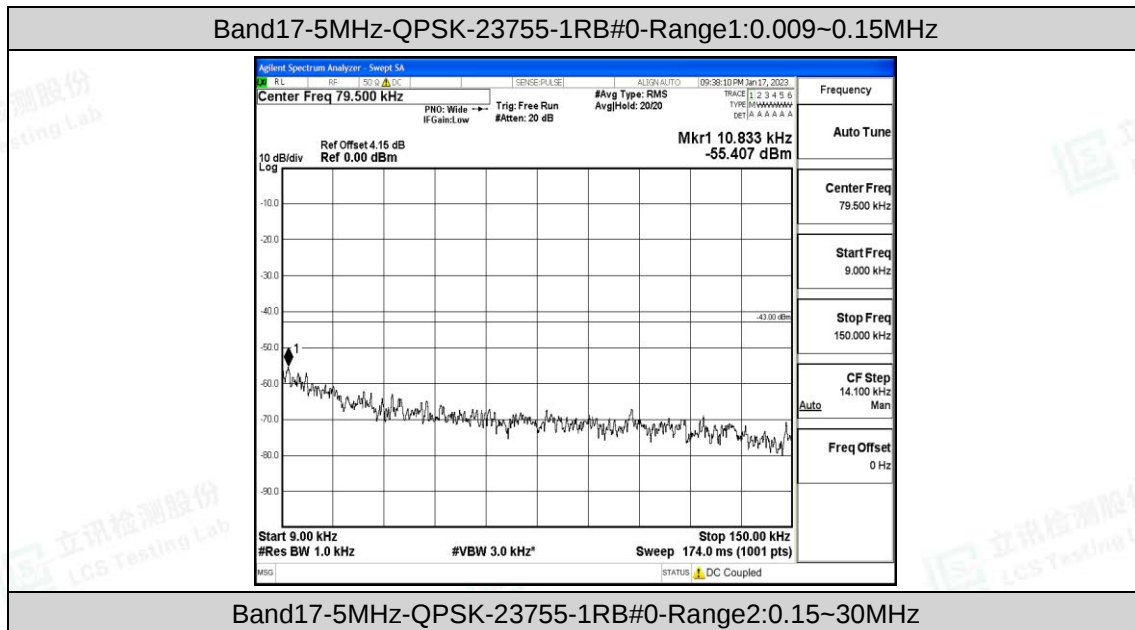
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	-55.41	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-51.16	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-40.36	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000MHz	-44.92	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-52.81	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-50.15	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.49	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-44.88	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-55.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-49.97	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-40.84	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000MHz	-44.81	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-55.05	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-51.82	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-40.4	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000MHz	-44.69	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-54.84	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-50.01	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-40.8	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.93	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-54.55	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-51.41	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-40.88	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000MHz	-44.9	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-55.7	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-49.31	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-40.38	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000MHz	-44.92	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-56.68	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-52.2	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.97	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-44.96	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-54.85	PASS

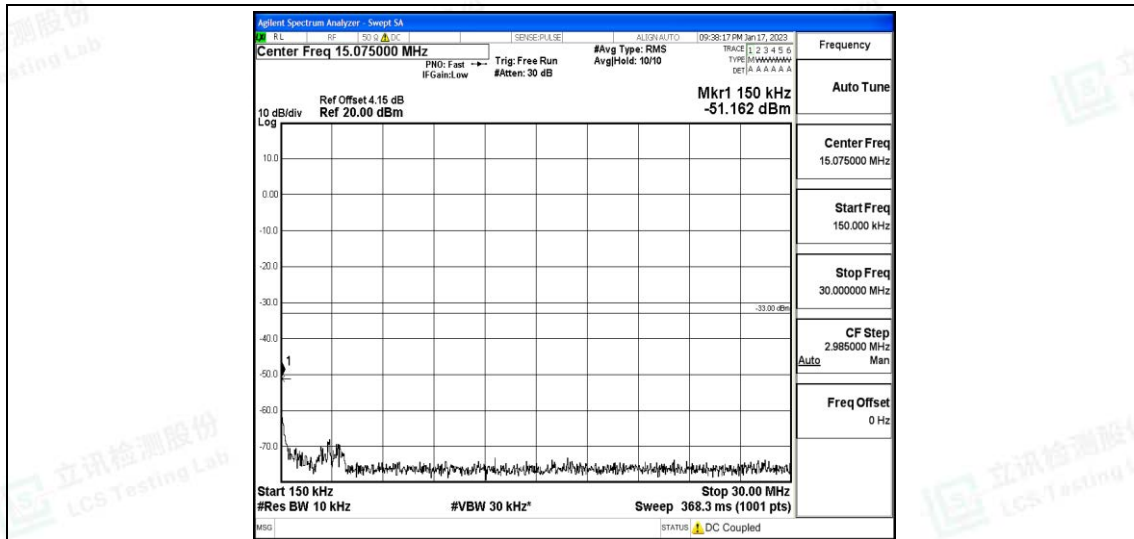




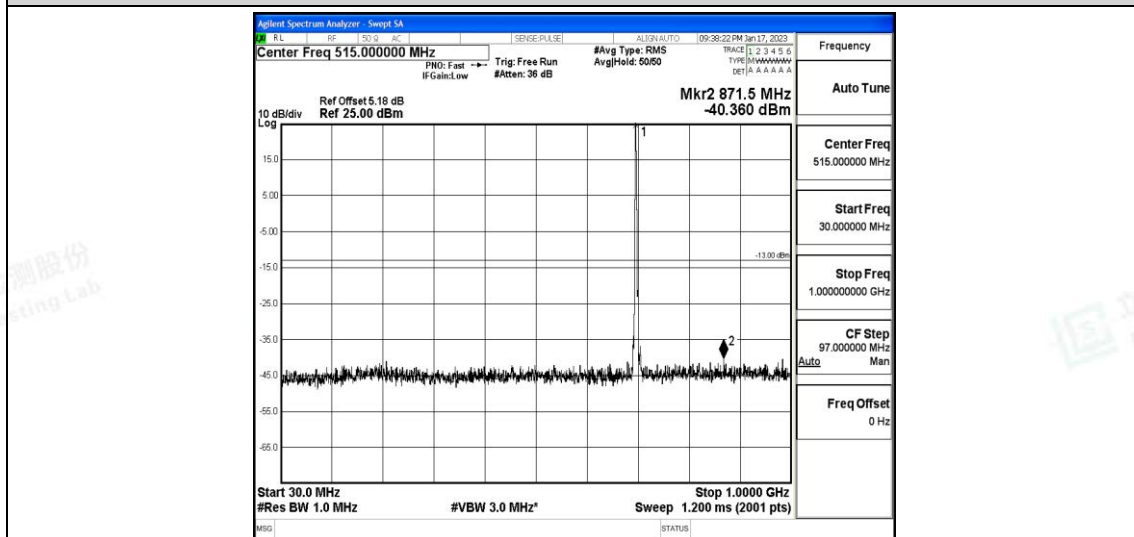
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-50.5	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-40.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~10000MHz	-44.95	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	-54.14	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-52.21	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-40.99	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~10000MHz	-44.82	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-52.2	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-50.46	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-40.96	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	-57.09	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-51.59	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-41.31	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~10000MHz	-44.96	PASS

Test Graphs

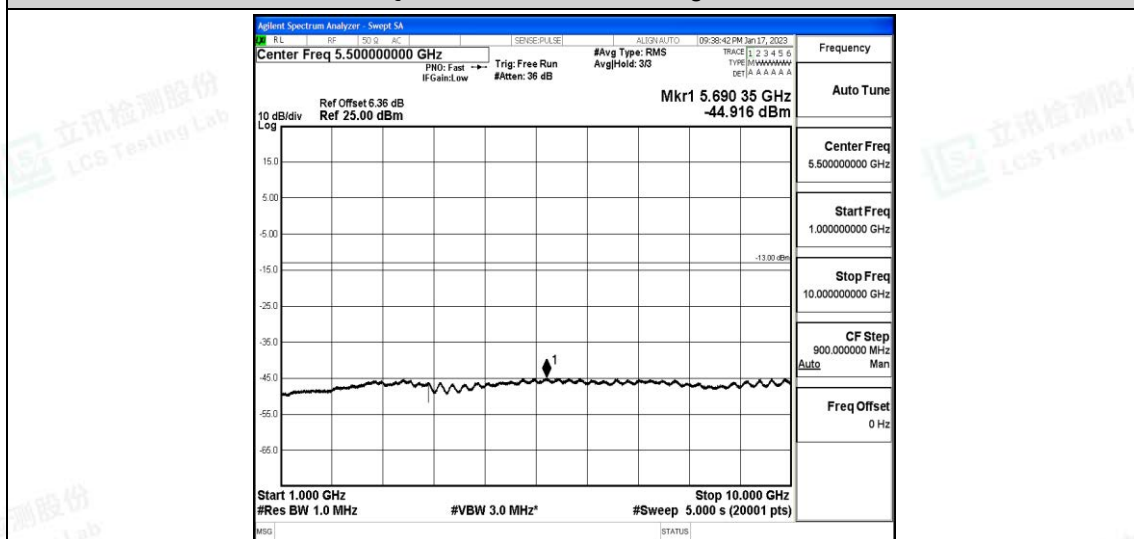




Band17-5MHz-QPSK-23755-1RB#0-Range3:30~1000MHz

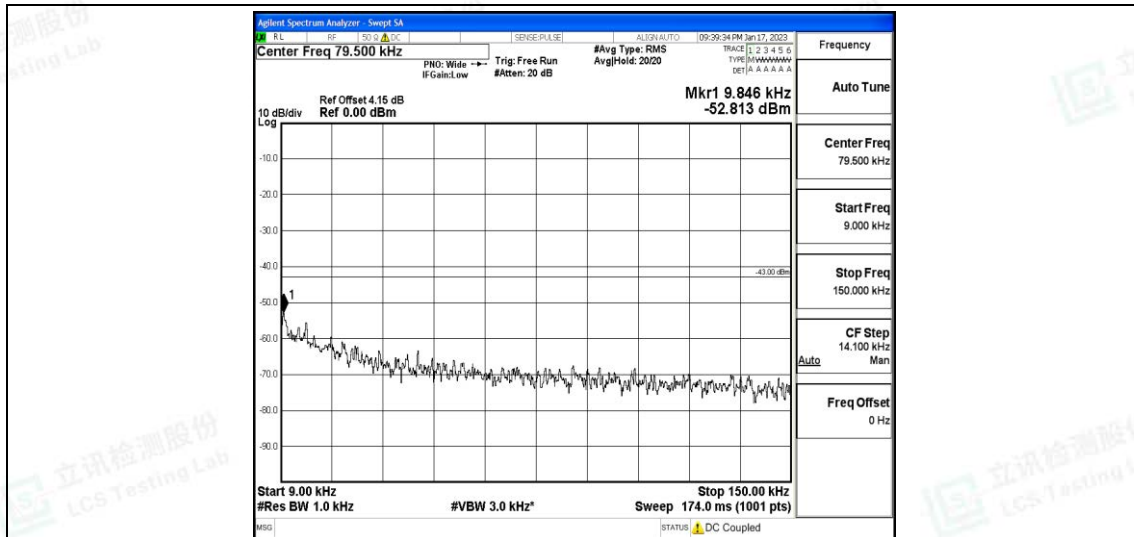


Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz

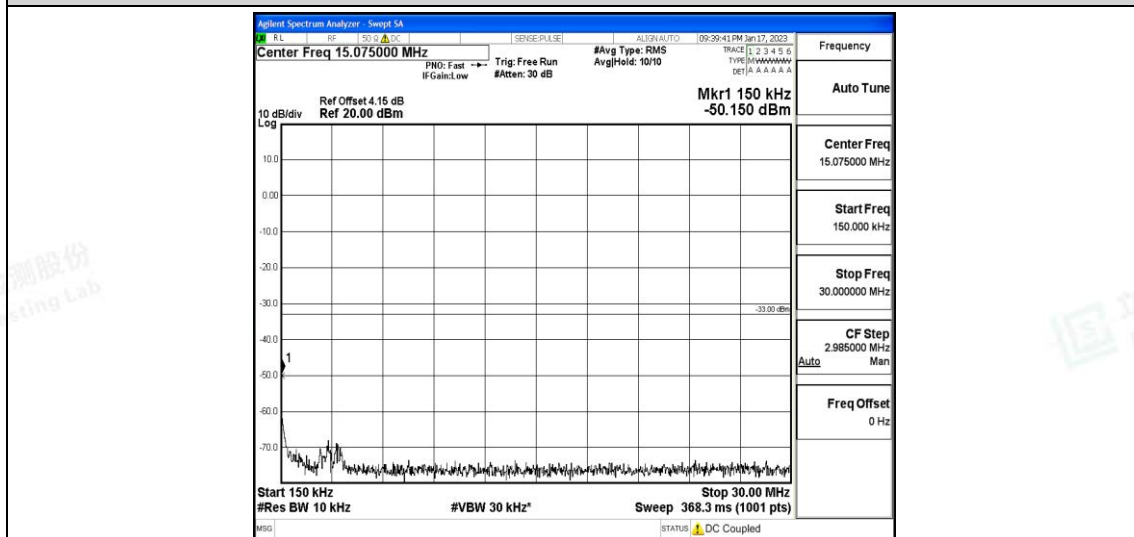


Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

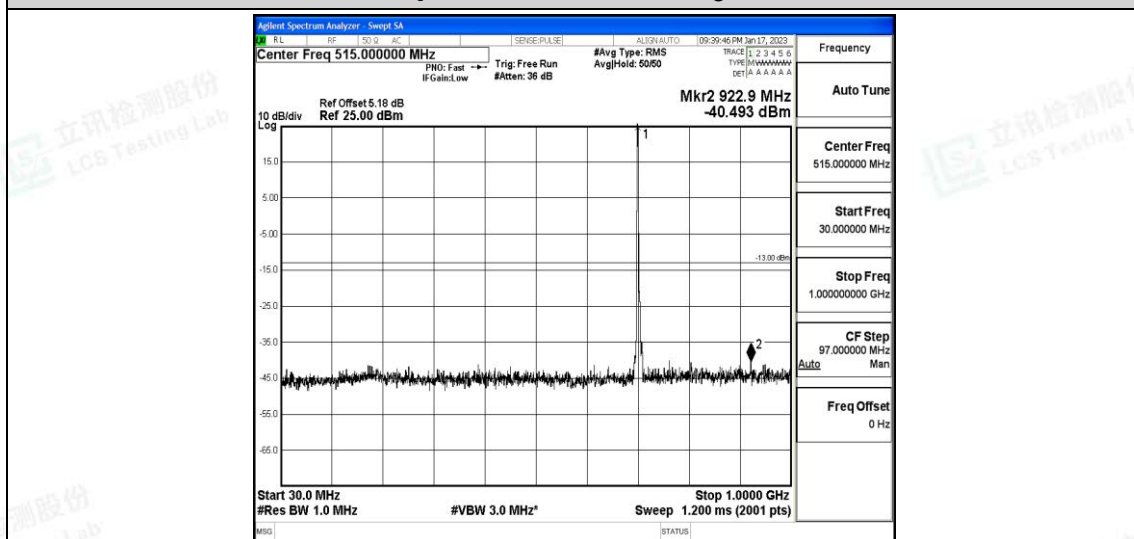




Band17-5MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

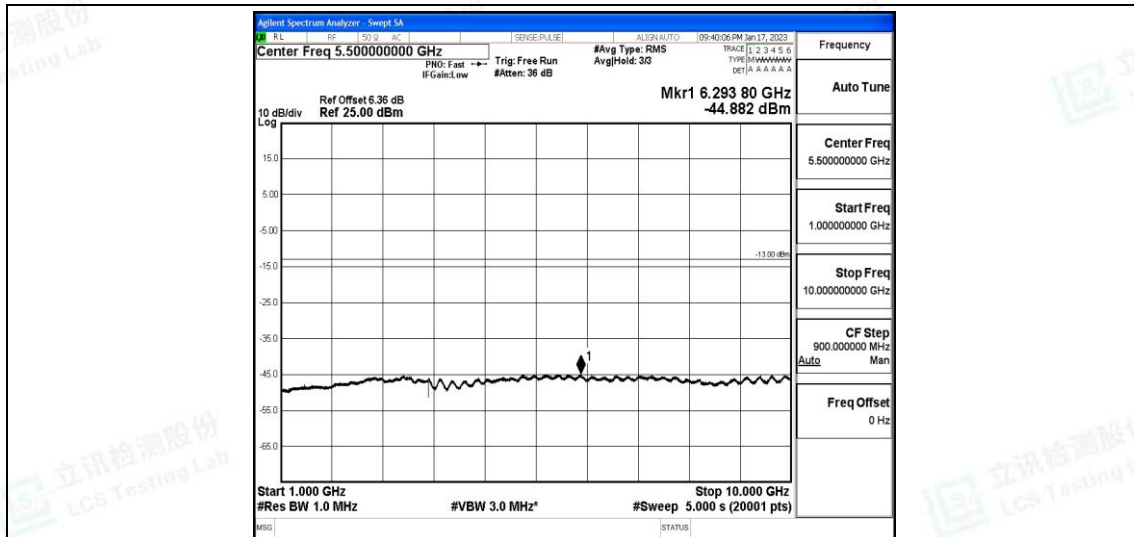


Band17-5MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

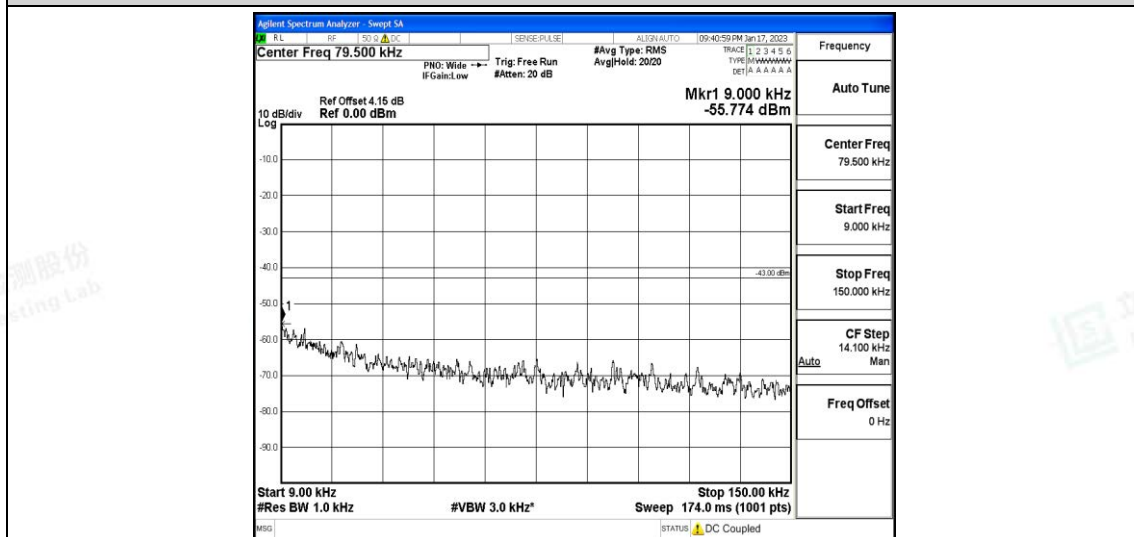


Band17-5MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

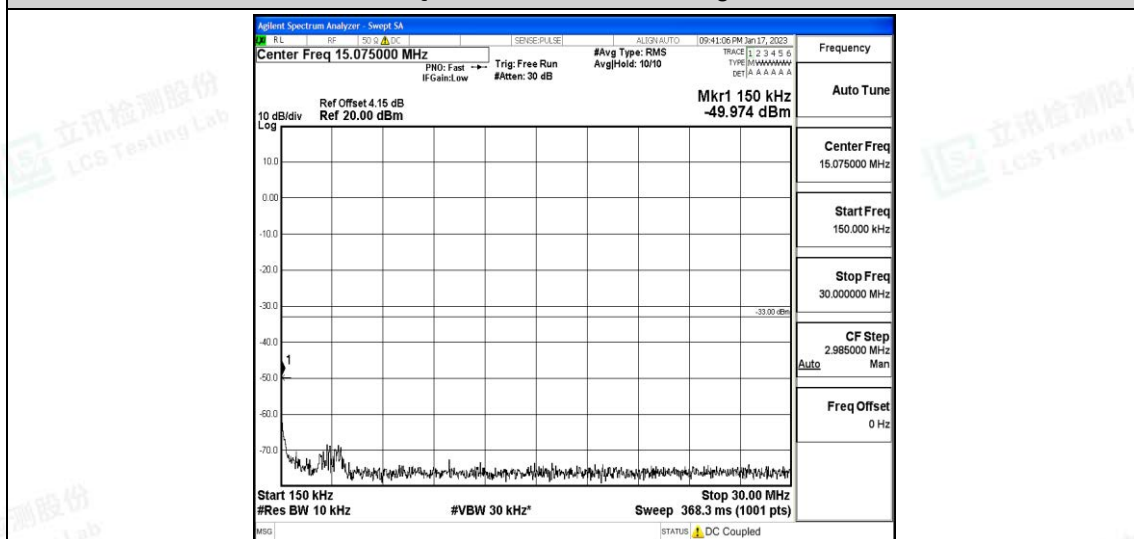




Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz

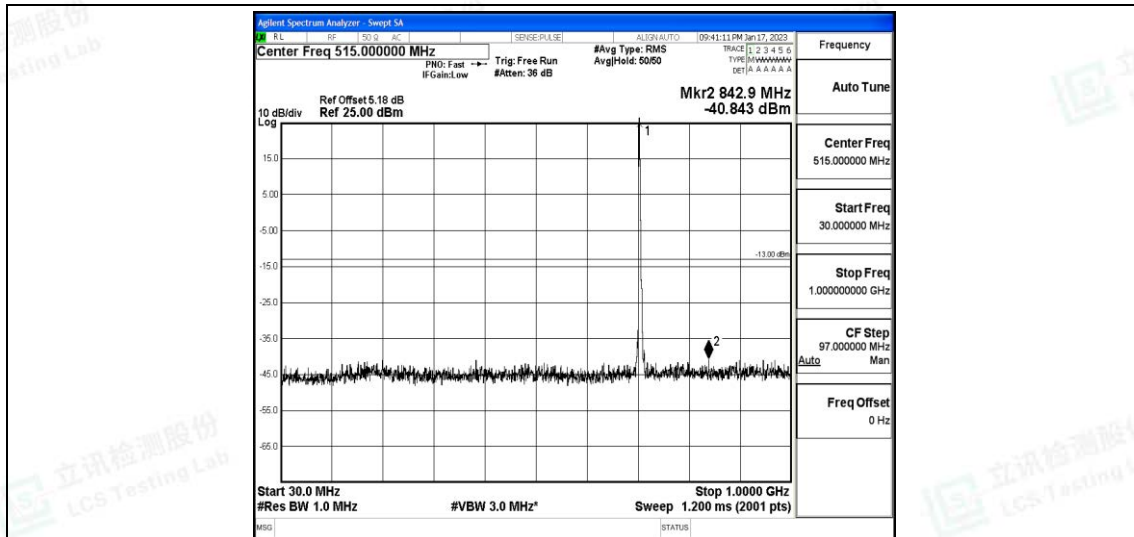


Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz

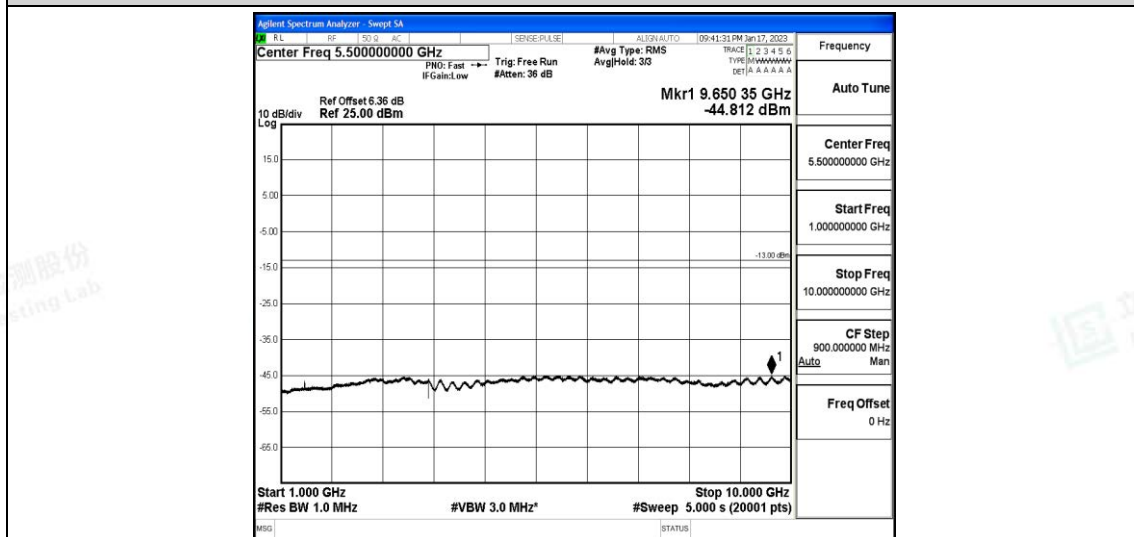


Band17-5MHz-QPSK-23825-1RB#0-Range3:30~1000MHz

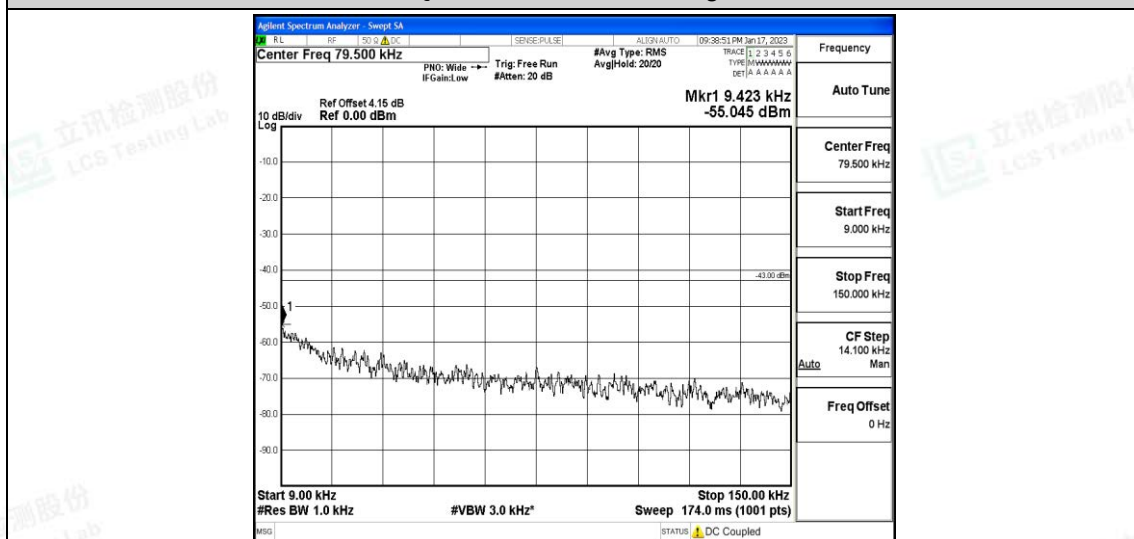




Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~10000MHz

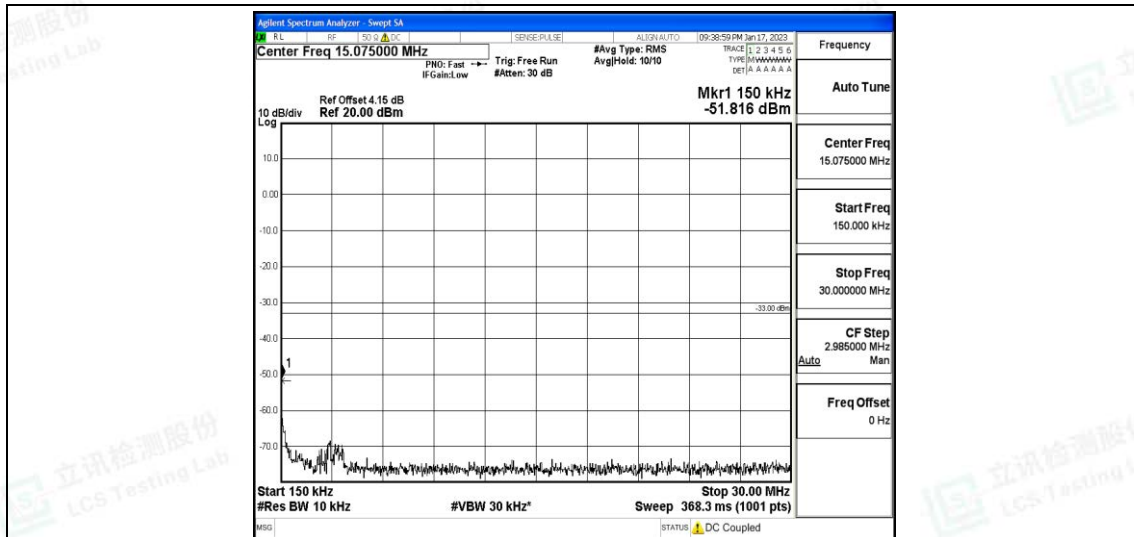


Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz

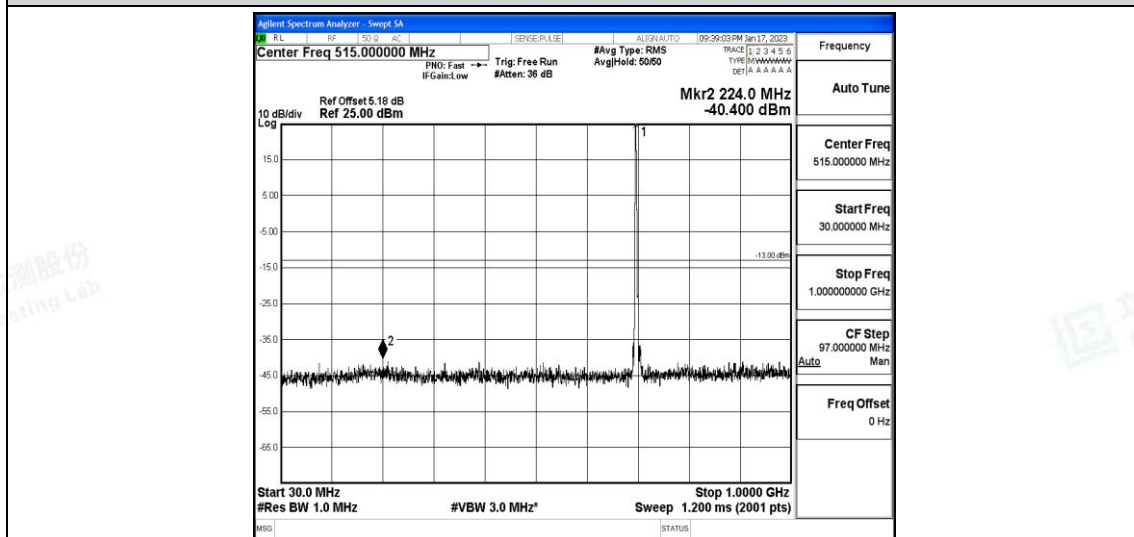


Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz

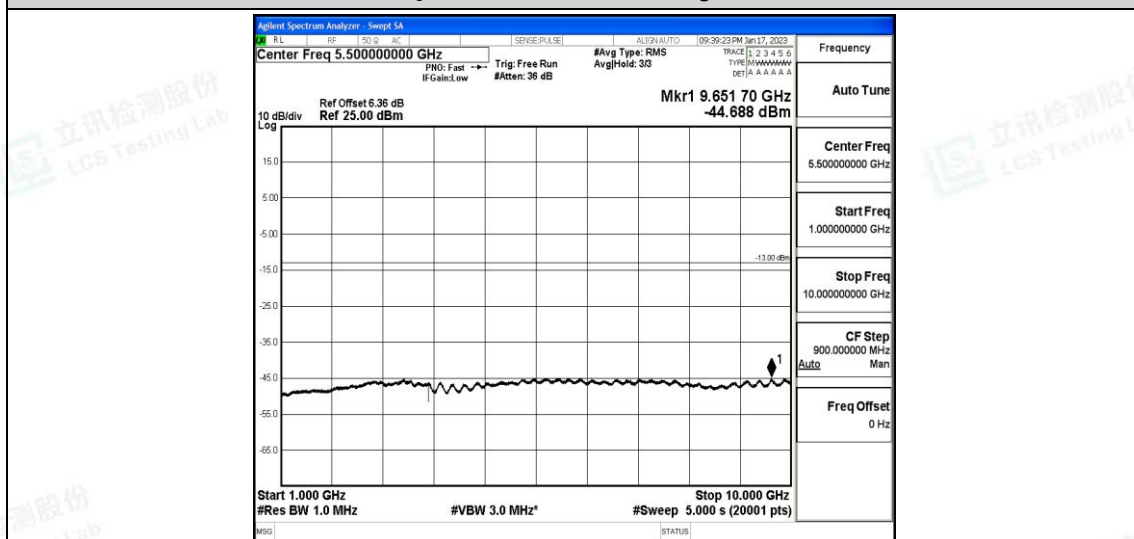




Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz

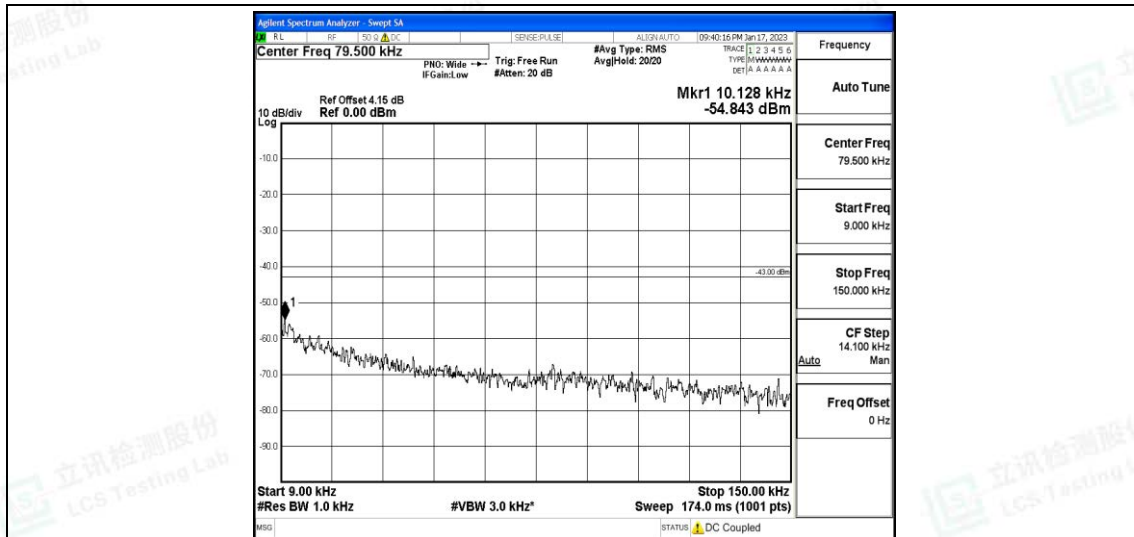


Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~10000MHz

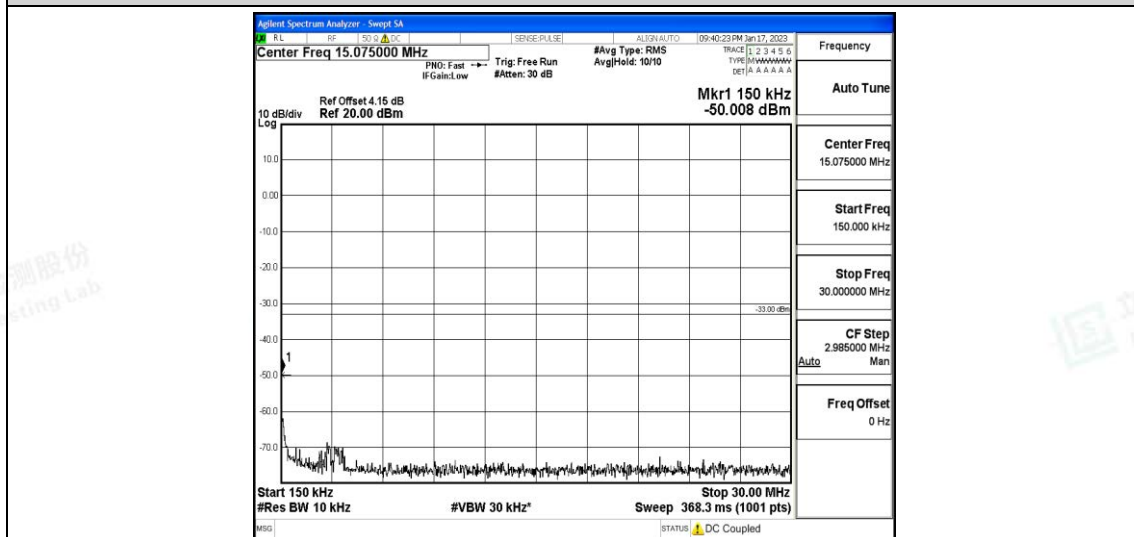


Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz

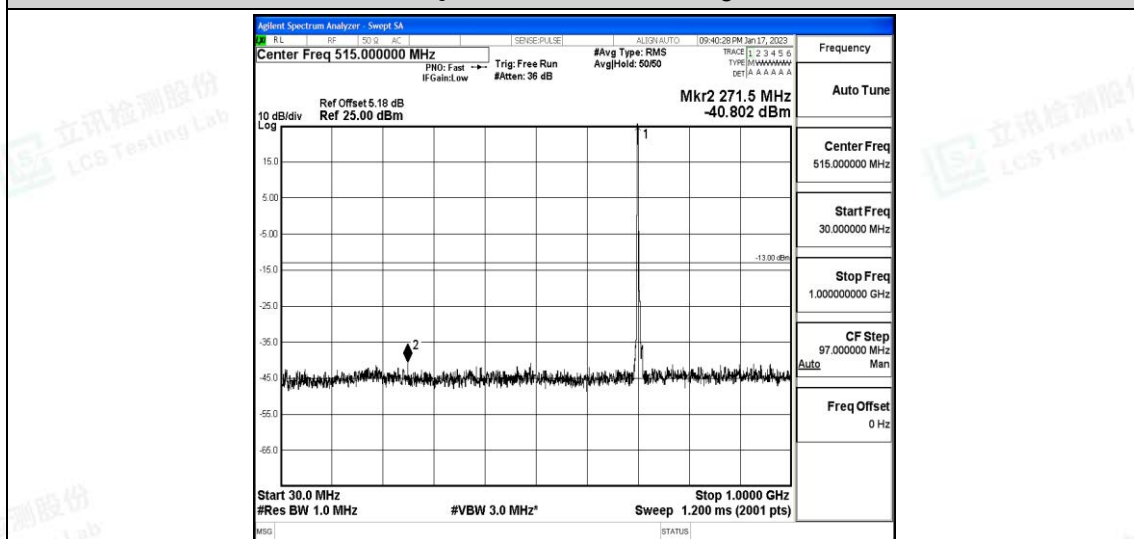




Band17-5MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz

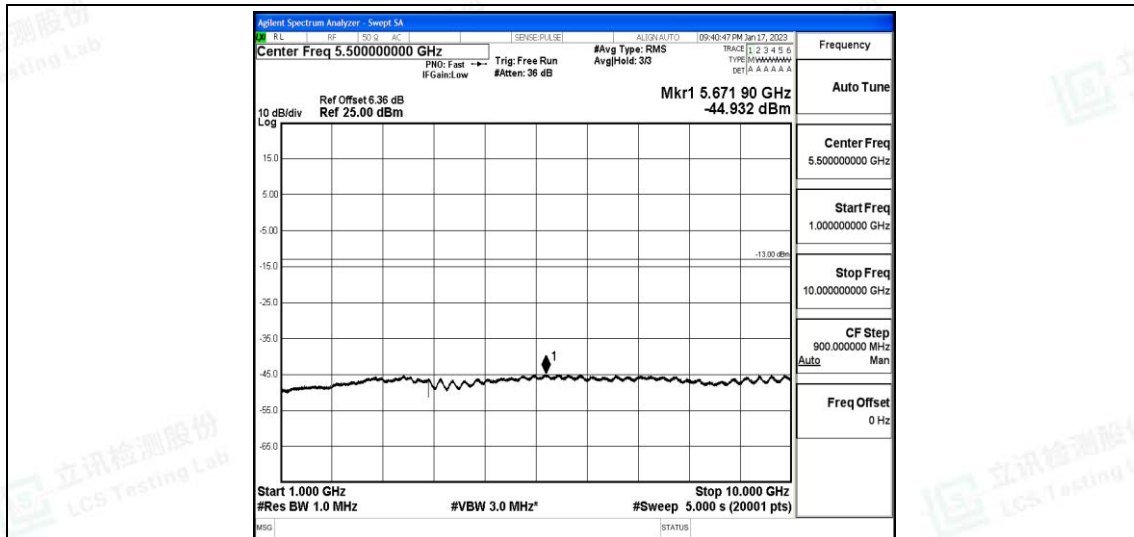


Band17-5MHz-16QAM-23790-1RB#0-Range3:30~1000MHz

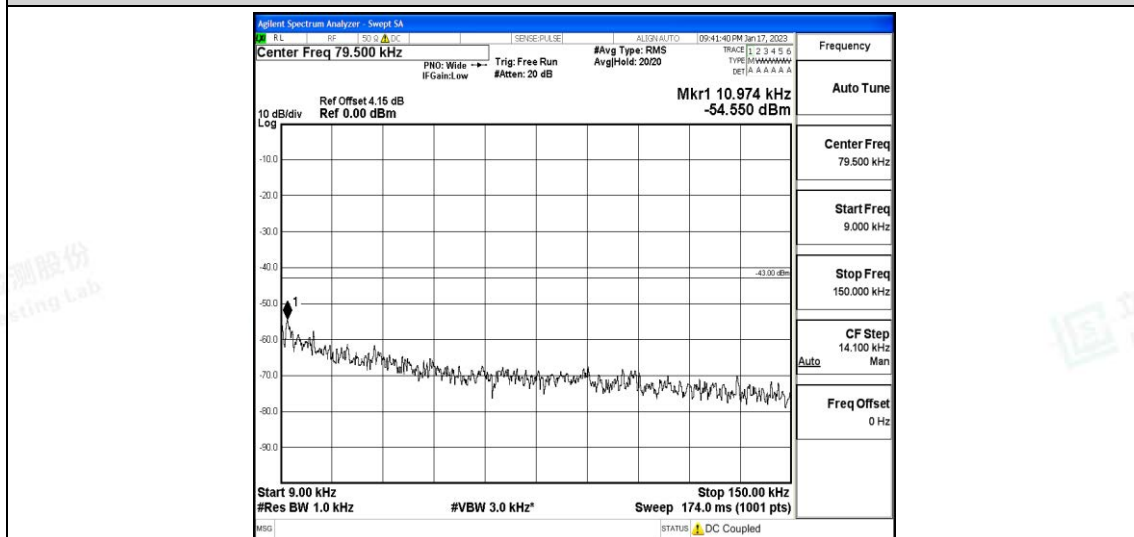


Band17-5MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz

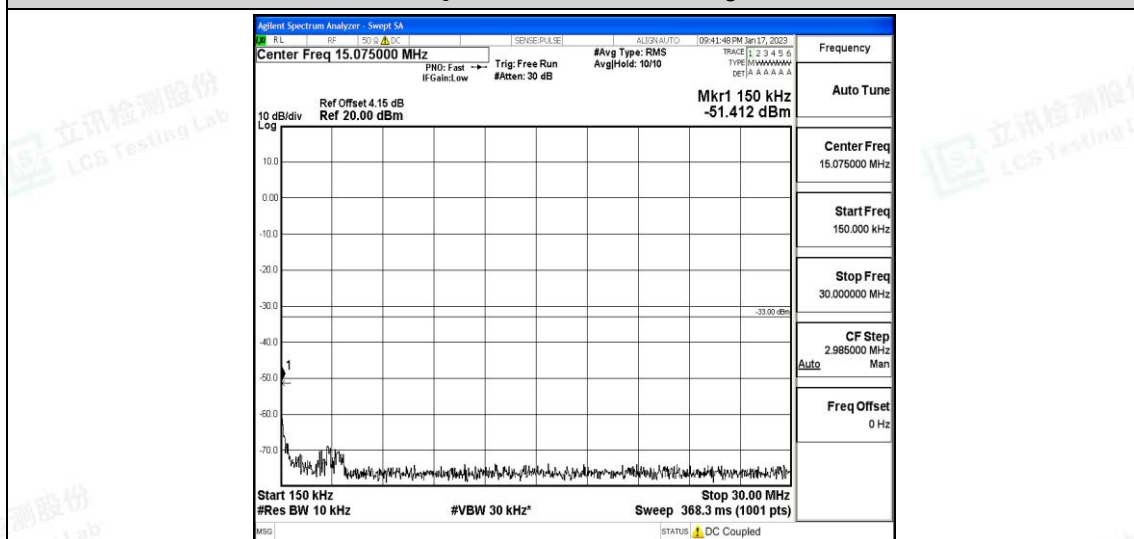




Band17-5MHz-16QAM-23825-1RB#0-Range1:0.009~0.15MHz

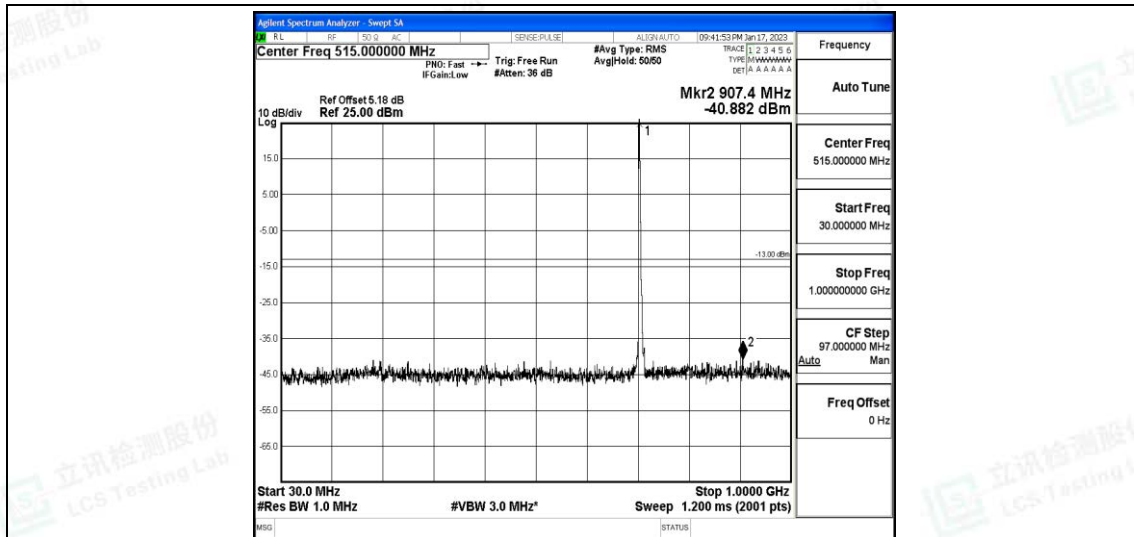


Band17-5MHz-16QAM-23825-1RB#0-Range2:0.15~30MHz

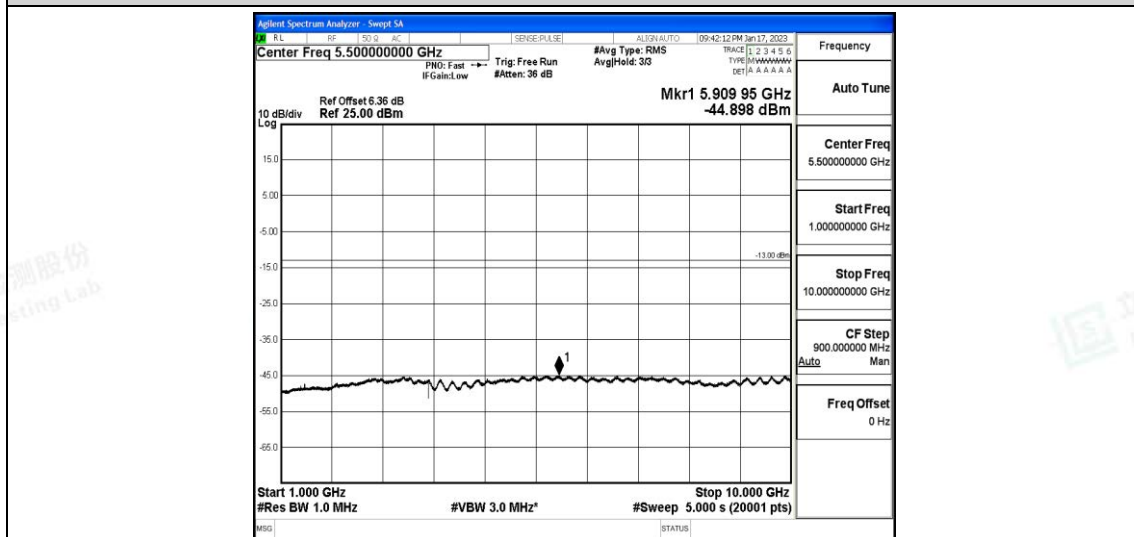


Band17-5MHz-16QAM-23825-1RB#0-Range3:30~1000MHz

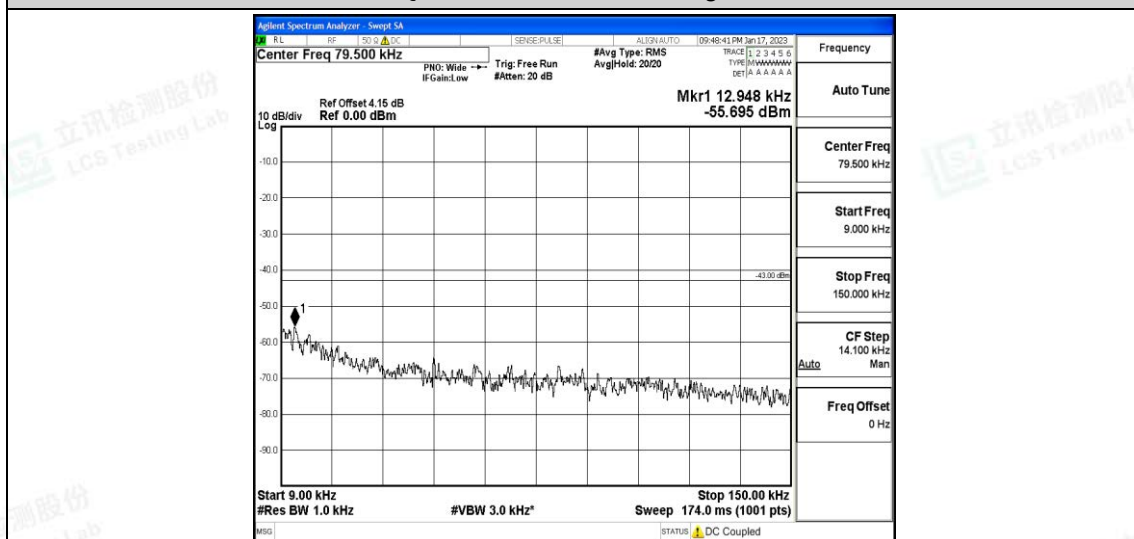




Band17-5MHz-16QAM-23825-1RB#0-Range4:1000~10000MHz

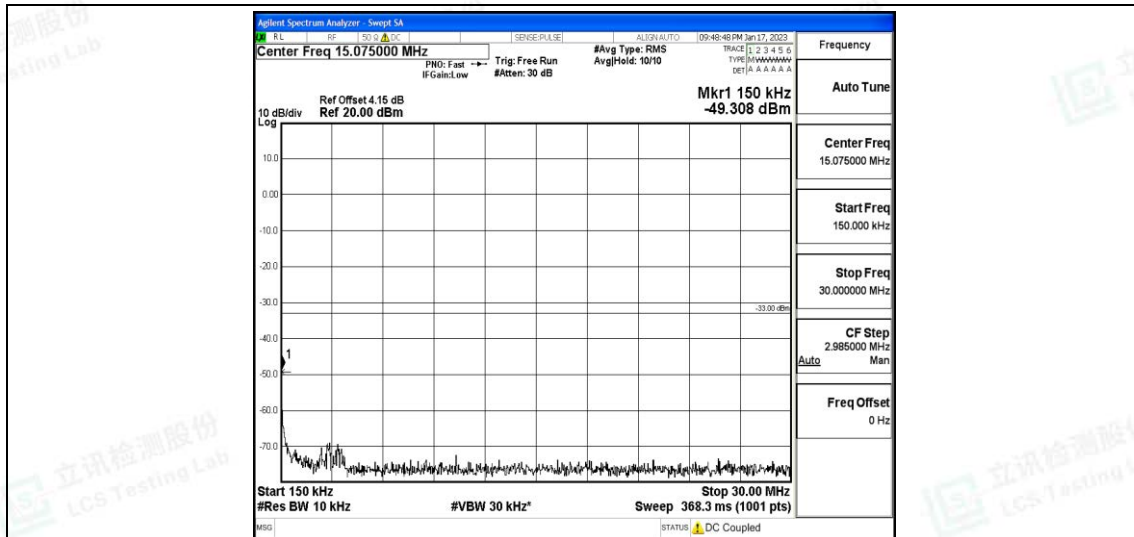


Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz

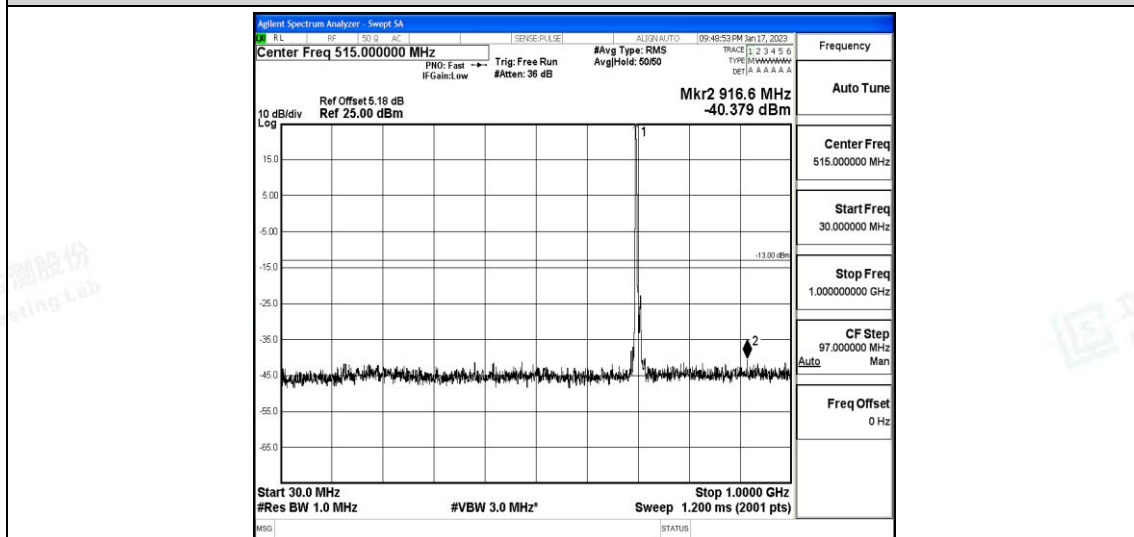


Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz

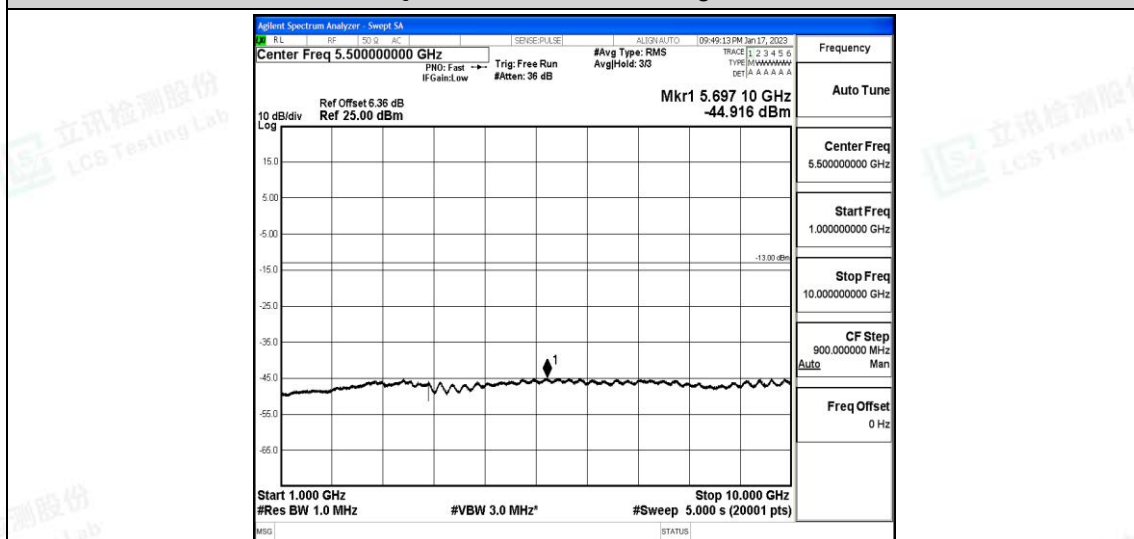




Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz

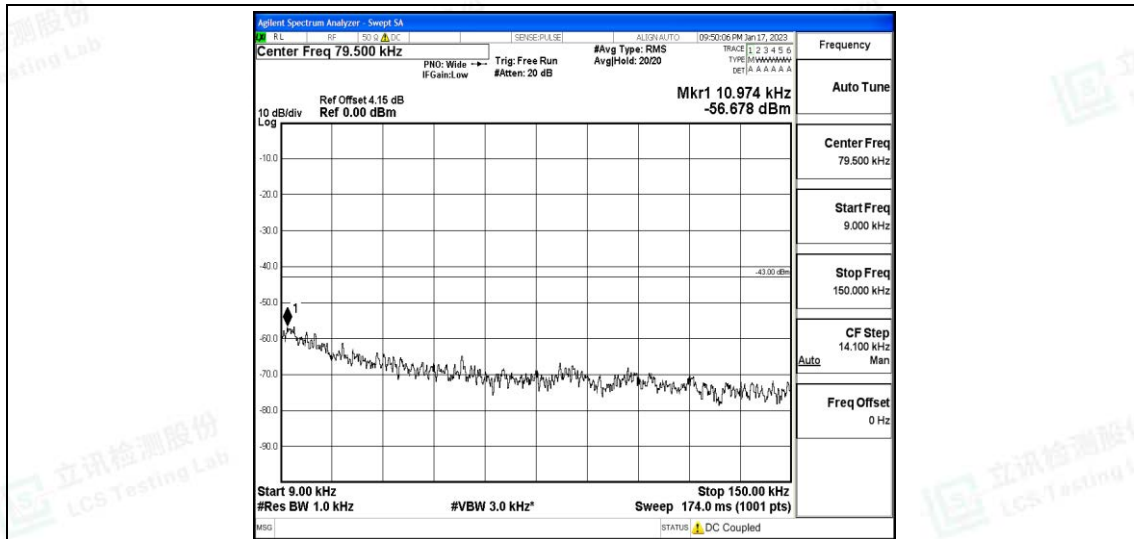


Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

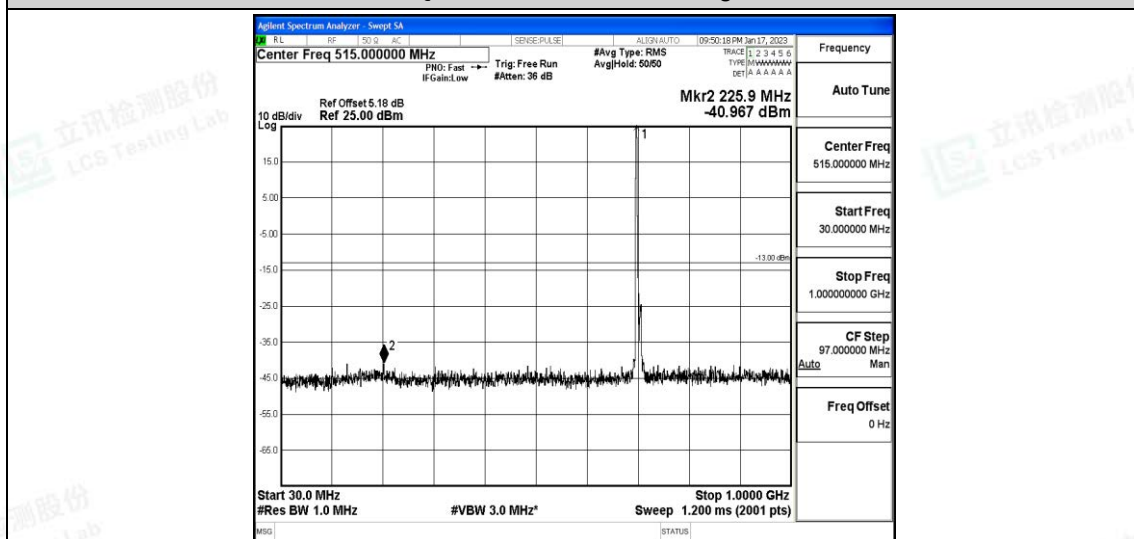




Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

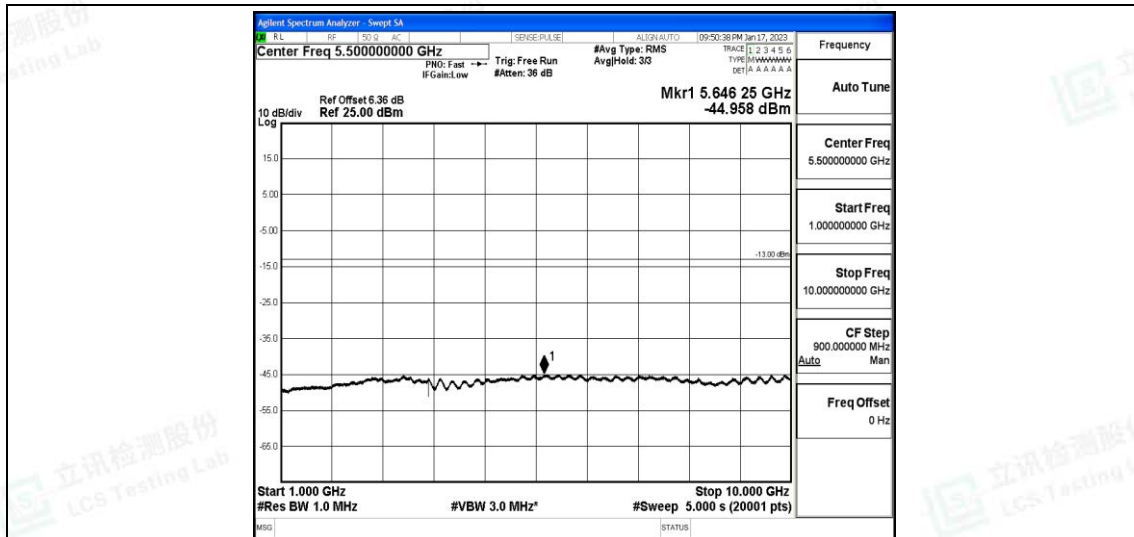


Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

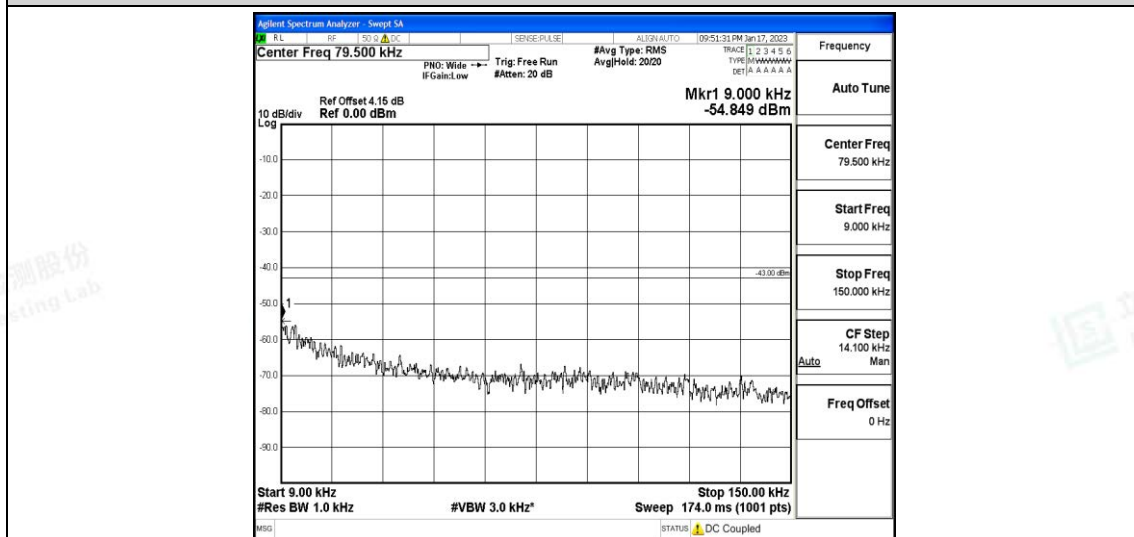


Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

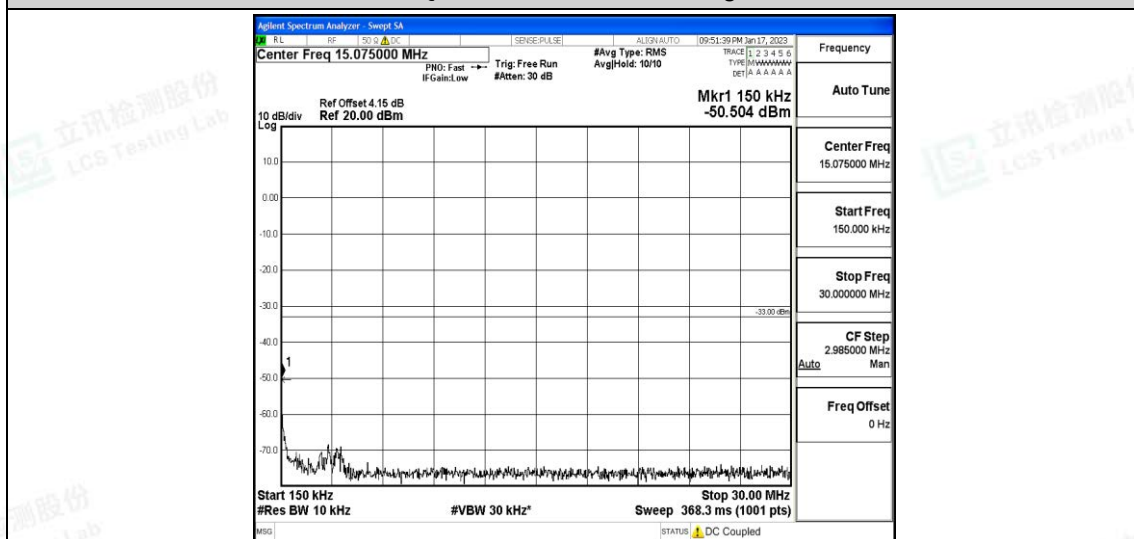




Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz

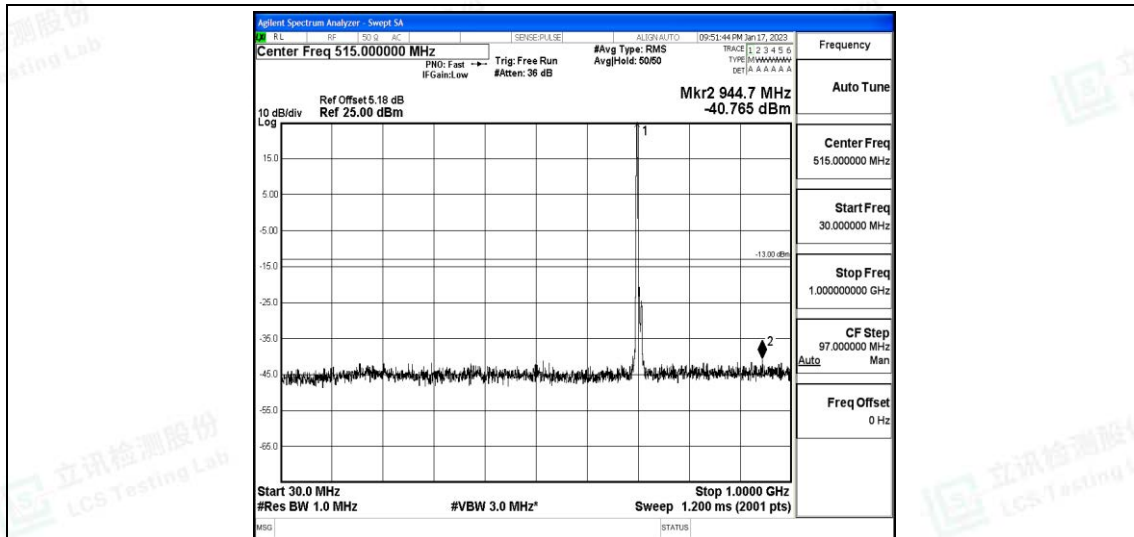


Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz

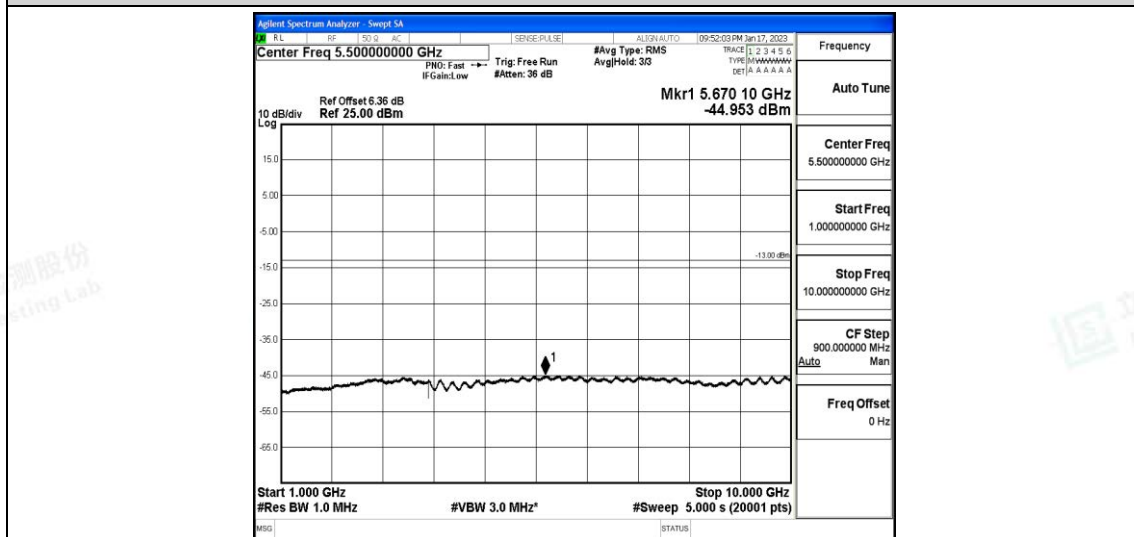


Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz

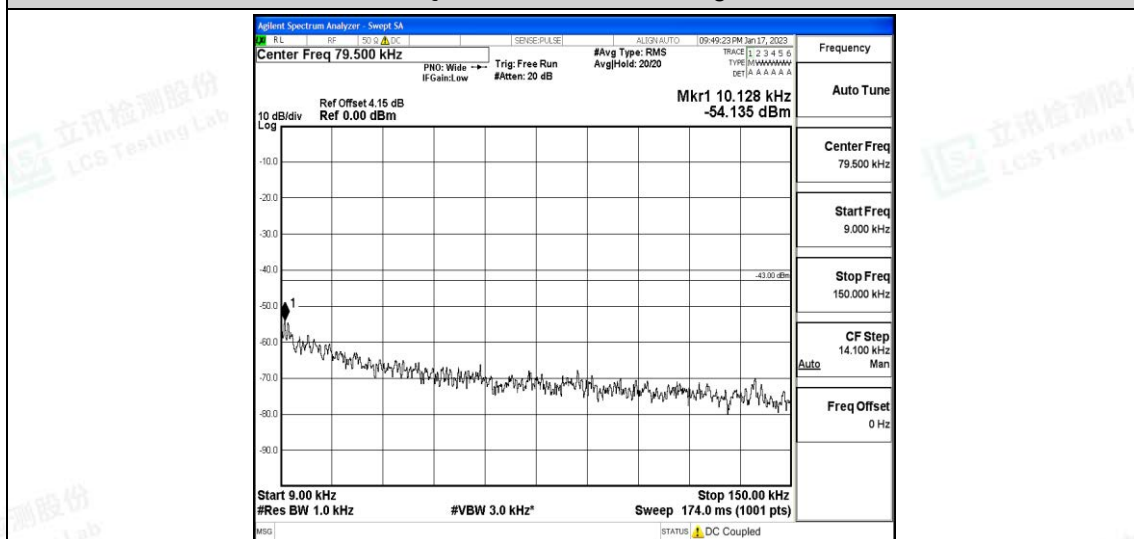




Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz

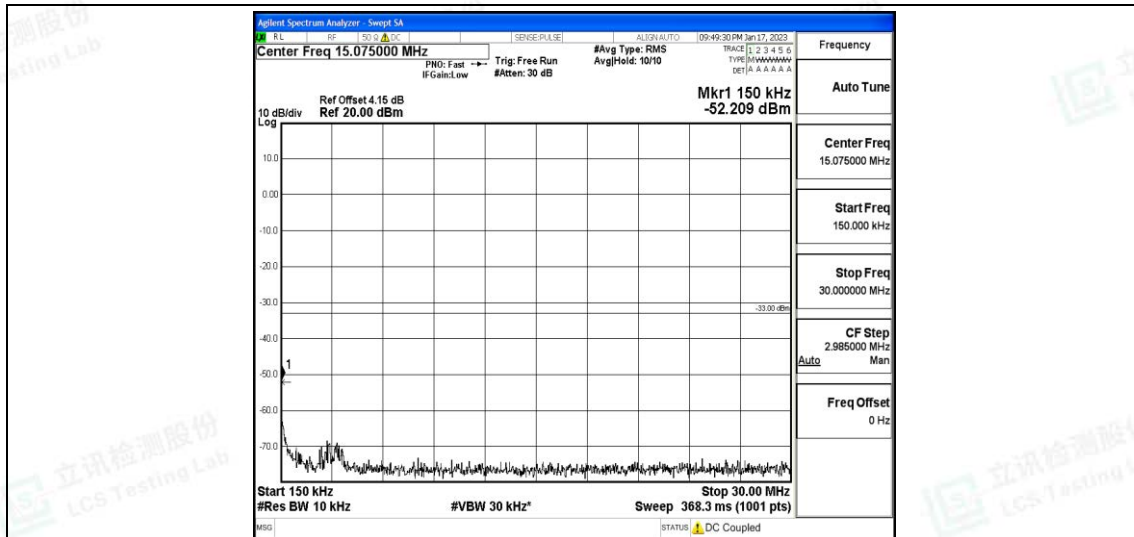


Band17-10MHz-16QAM-23780-1RB#0-Range1:0.009~0.15MHz

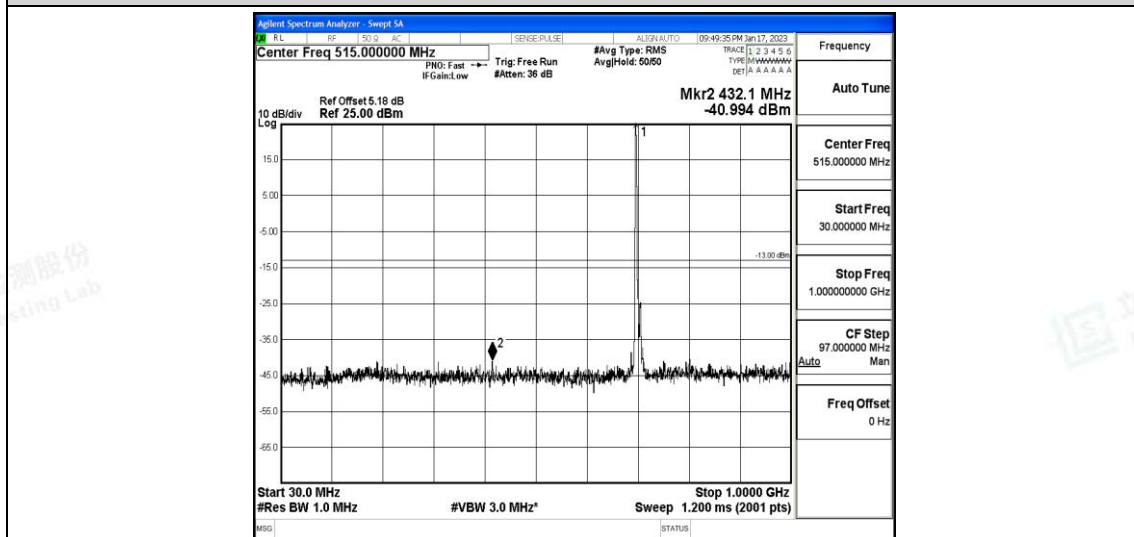


Band17-10MHz-16QAM-23780-1RB#0-Range2:0.15~30MHz

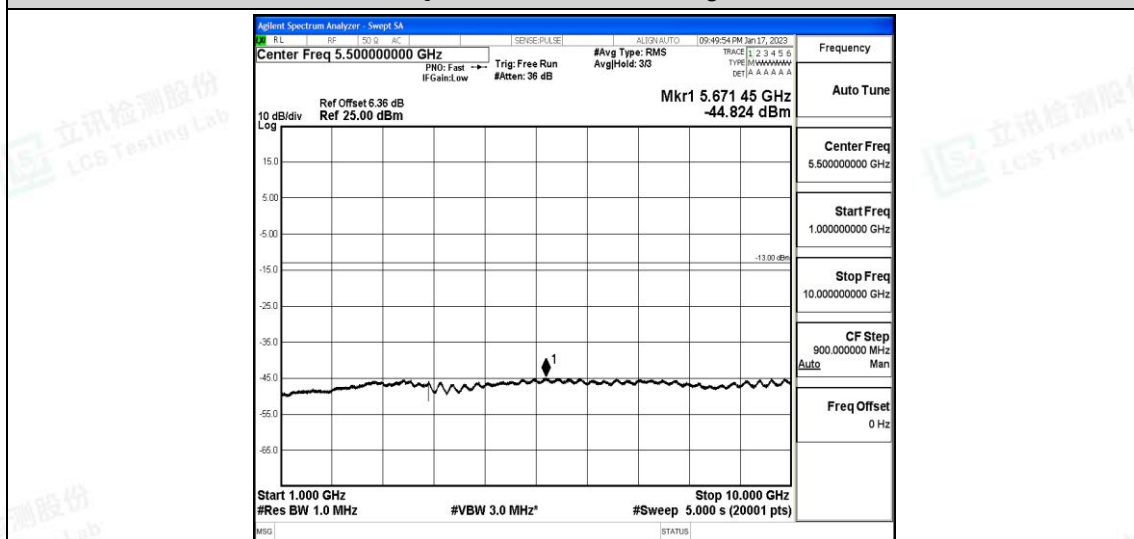




Band17-10MHz-16QAM-23780-1RB#0-Range3:30~1000MHz

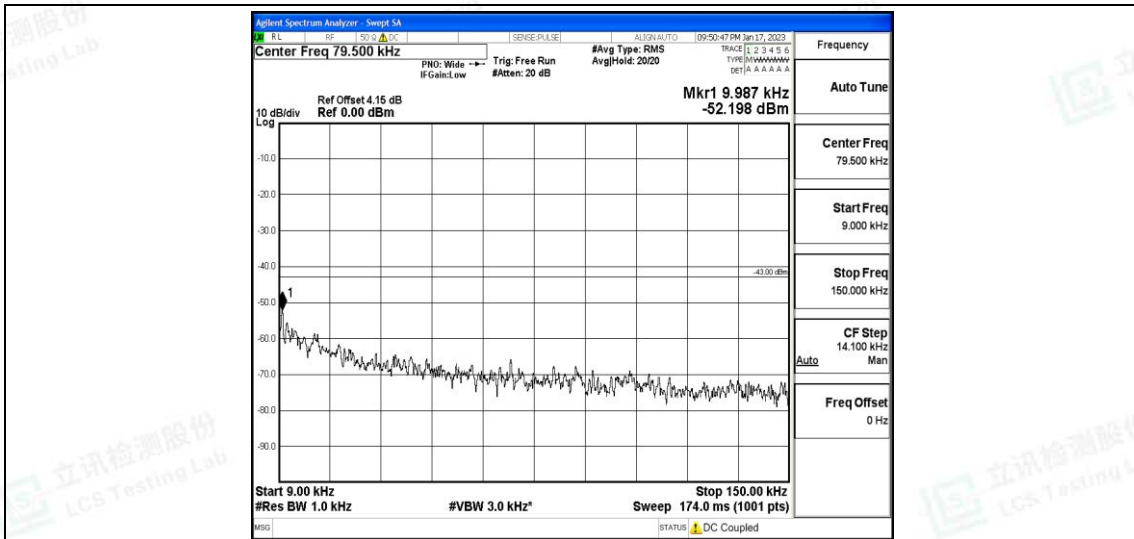


Band17-10MHz-16QAM-23780-1RB#0-Range4:1000~10000MHz

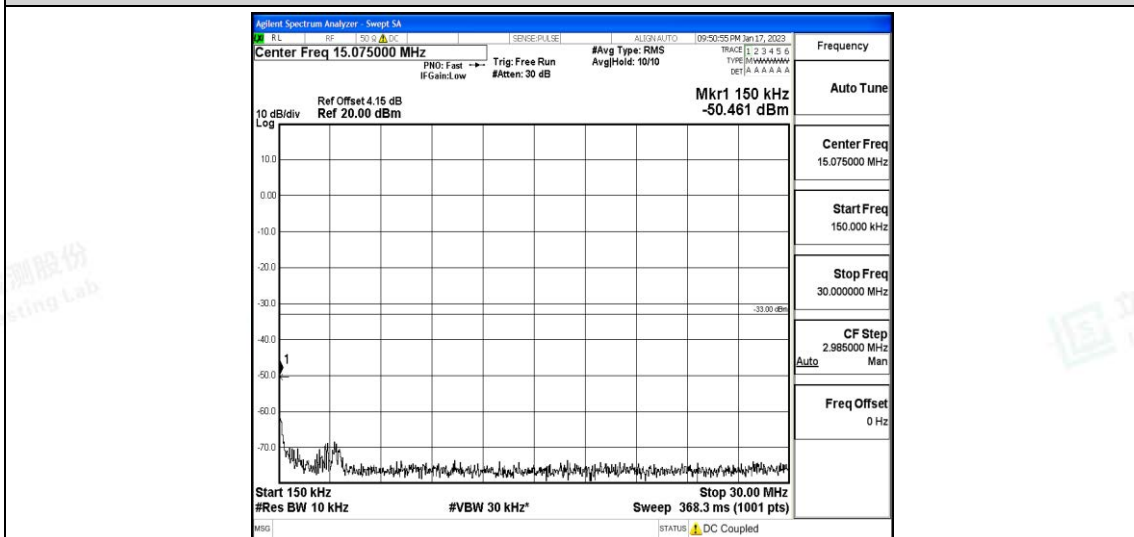


Band17-10MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz

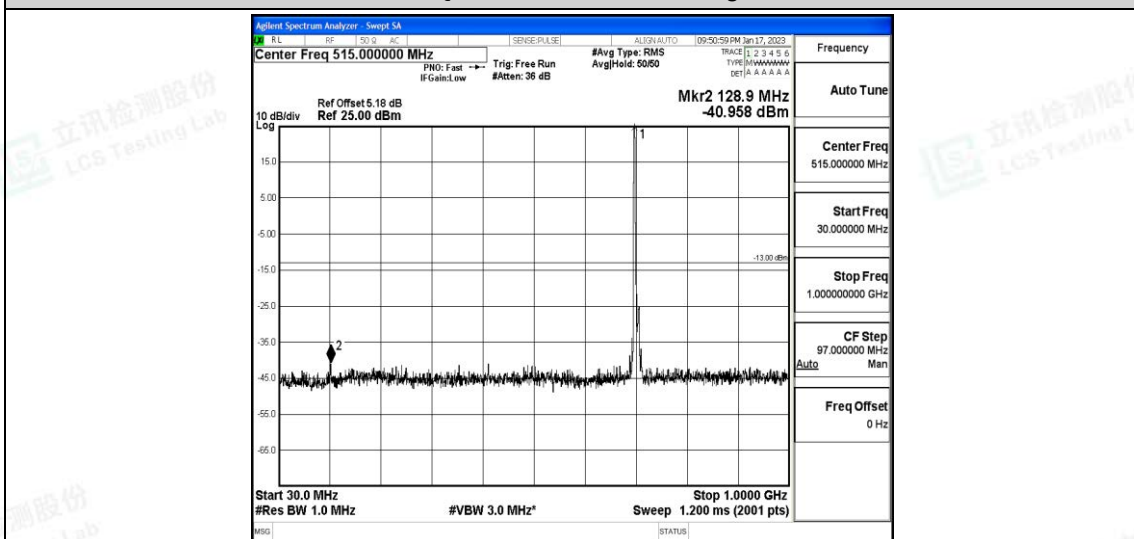




Band17-10MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz

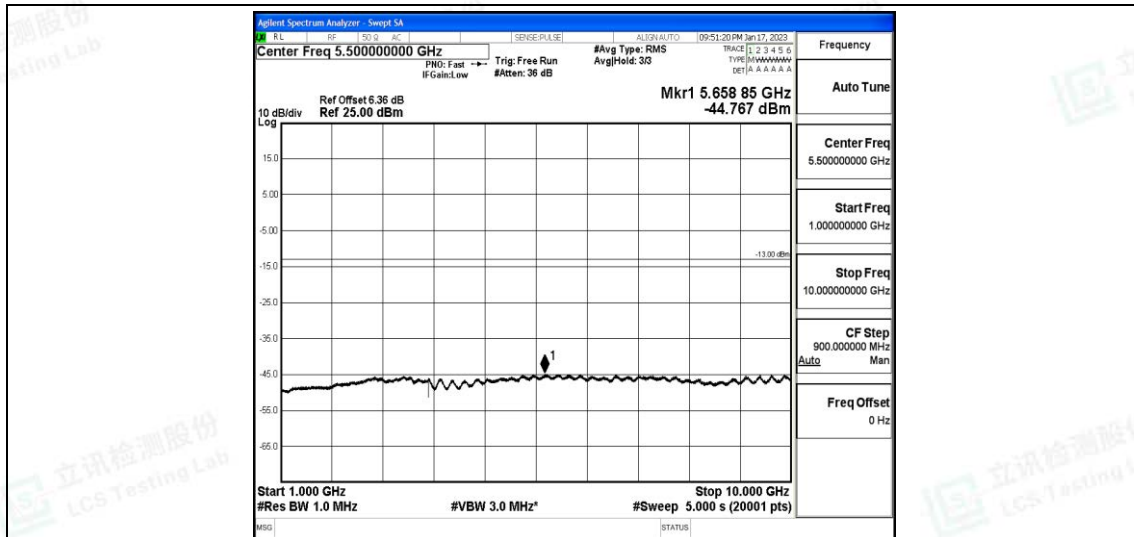


Band17-10MHz-16QAM-23790-1RB#0-Range3:30~1000MHz

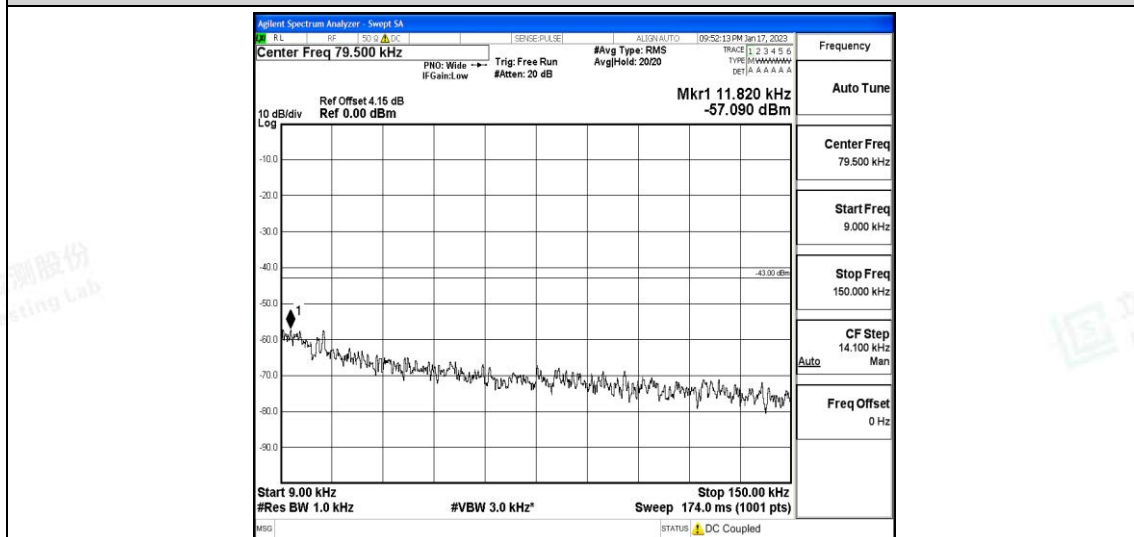


Band17-10MHz-16QAM-23790-1RB#0-Range4:1000~10000MHz

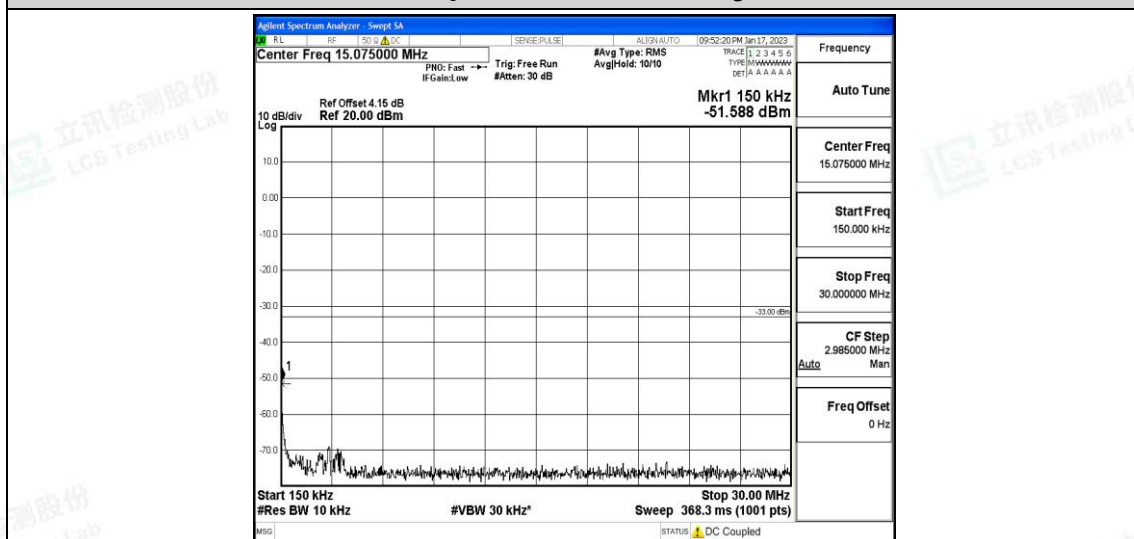




Band17-10MHz-16QAM-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-16QAM-23800-1RB#0-Range2:0.15~30MHz



Band17-10MHz-16QAM-23800-1RB#0-Range3:30~1000MHz



