



Appendix K: Test Data for E-UTRA Band 17

Product Name: Smartphone

Test Model: NOTE 50

Environmental Conditions

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





K.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.20	PASS
Band17	5MHz	QPSK	23755	1RB#12	24.15	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.16	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.10	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.32	PASS
Band17	5MHz	QPSK	23755	12RB#13	23.12	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.27	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.19	PASS
Band17	5MHz	QPSK	23790	1RB#12	24.23	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.13	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.01	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.13	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.08	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.13	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.12	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.01	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.90	PASS
Band17	5MHz	QPSK	23825	12RB#0	23.07	PASS
Band17	5MHz	QPSK	23825	12RB#6	23.13	PASS
Band17	5MHz	QPSK	23825	12RB#13	23.03	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.91	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.97	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.97	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.05	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.17	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.17	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.22	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.01	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.06	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.99	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.91	PASS





Band17	5MHz	16QAM	23790	12RB#0	22.10	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.09	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.22	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.20	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.52	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.30	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.24	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.11	PASS
Band17	5MHz	16QAM	23825	12RB#6	22.06	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.94	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.13	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.27	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.16	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.03	PASS
Band17	10MHz	QPSK	23780	25RB#0	23.23	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.35	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.21	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.26	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.15	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.12	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.85	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.14	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.22	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.88	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.17	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.25	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.12	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.95	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.11	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.08	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.91	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.92	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.14	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.08	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.99	PASS





Band17	10MHz	16QAM	23780	25RB#0	22.24	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.22	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.27	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.25	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.85	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.70	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.60	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.26	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.28	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.19	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.12	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.94	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.88	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.65	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.16	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.15	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.09	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.13	PASS





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

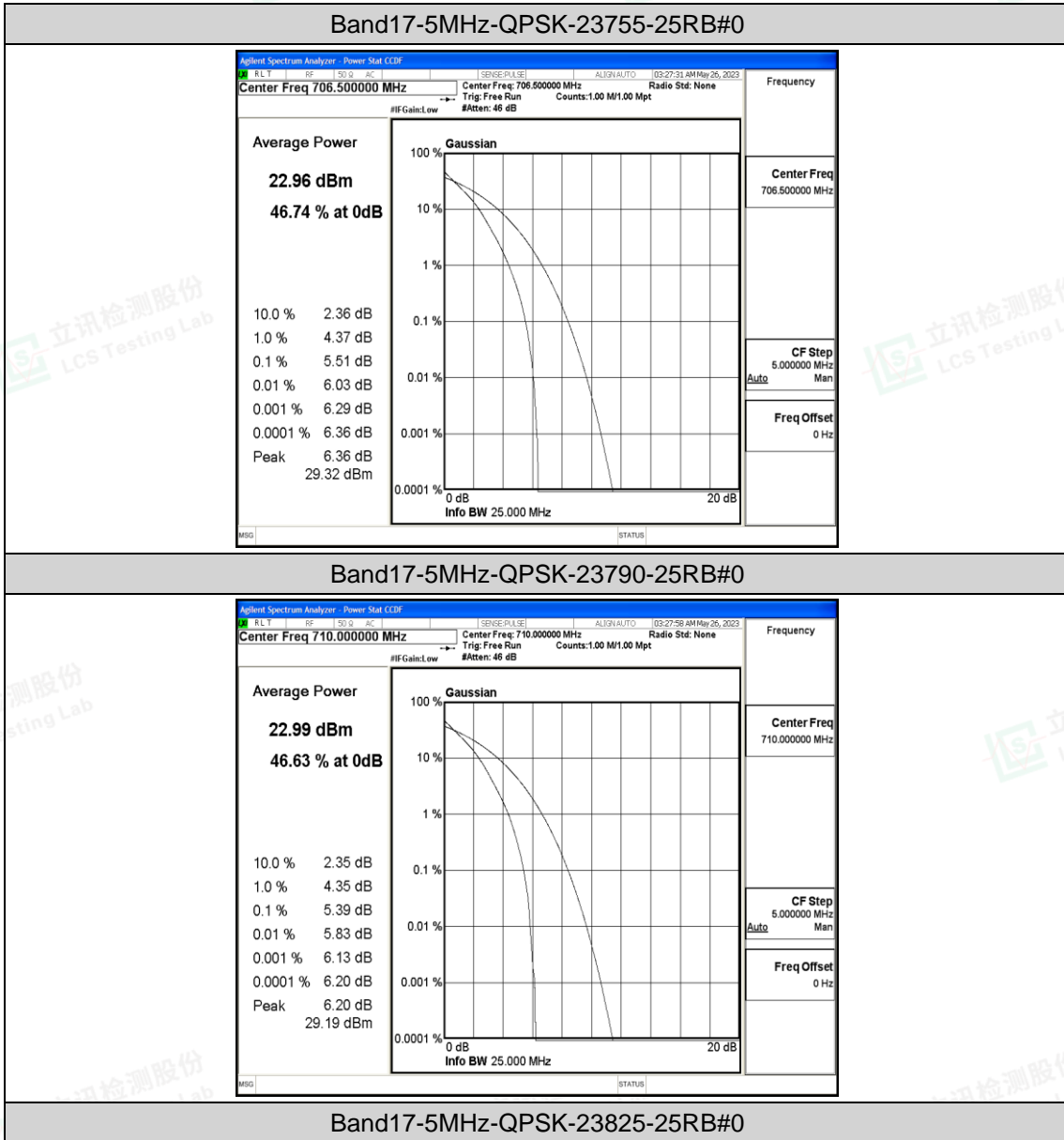
Test Result

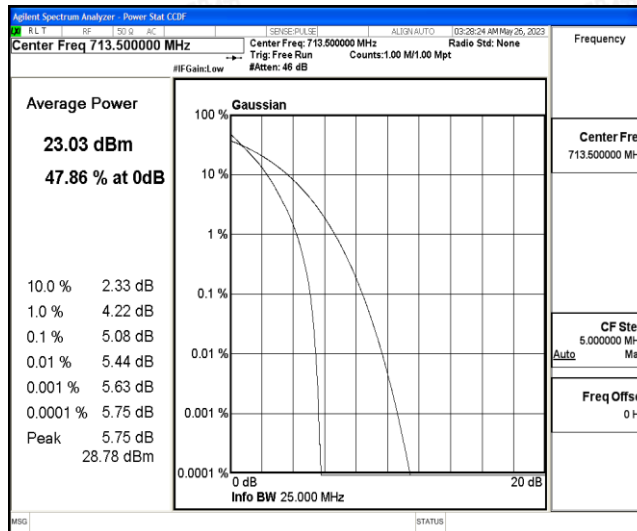
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.51	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.39	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.08	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.23	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.20	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.90	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.54	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.49	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.33	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.27	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.20	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.15	13	PASS



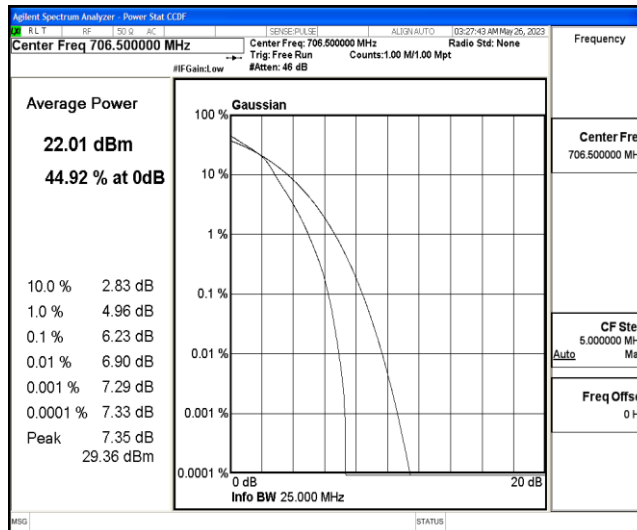


Test Graphs

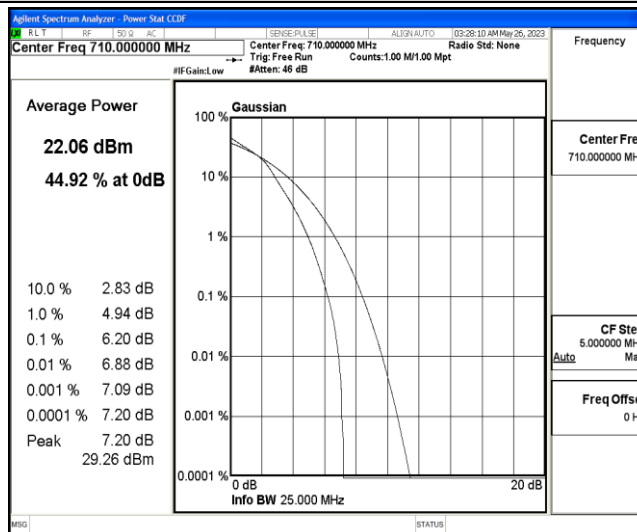




Band17-5MHz-16QAM-23755-25RB#0

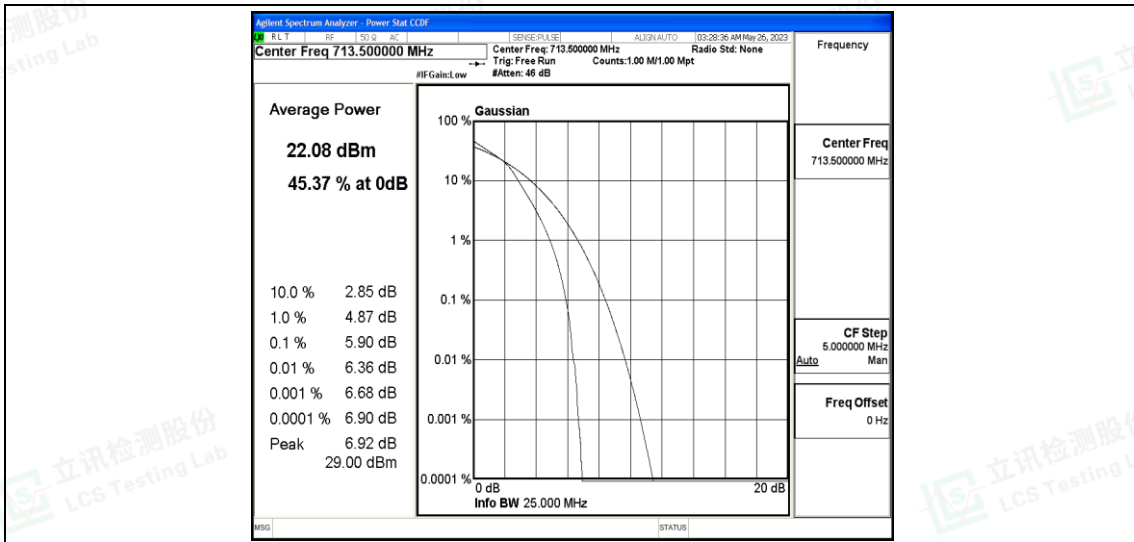


Band17-5MHz-16QAM-23790-25RB#0

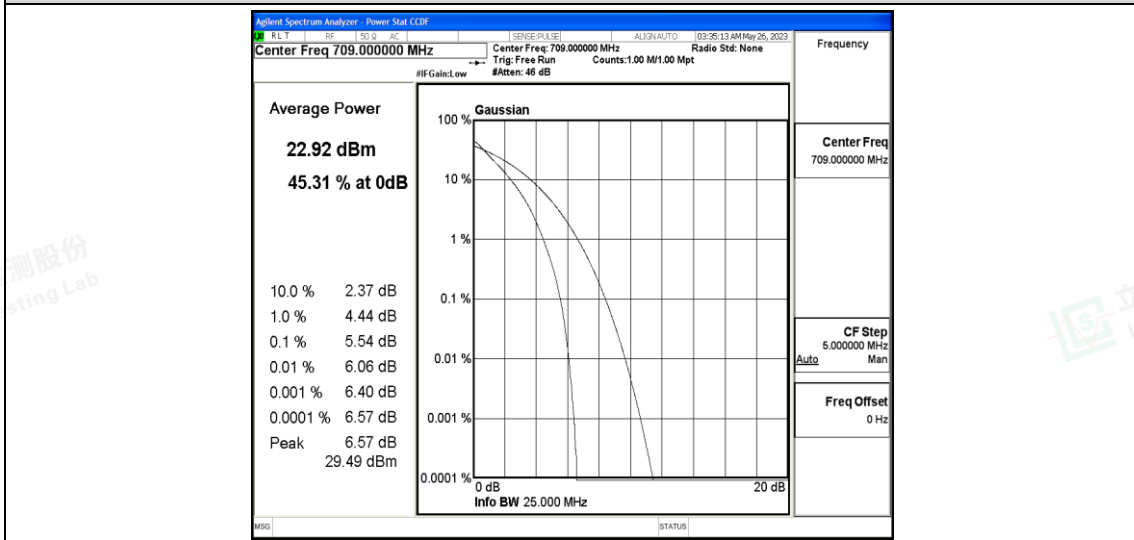


Band17-5MHz-16QAM-23825-25RB#0

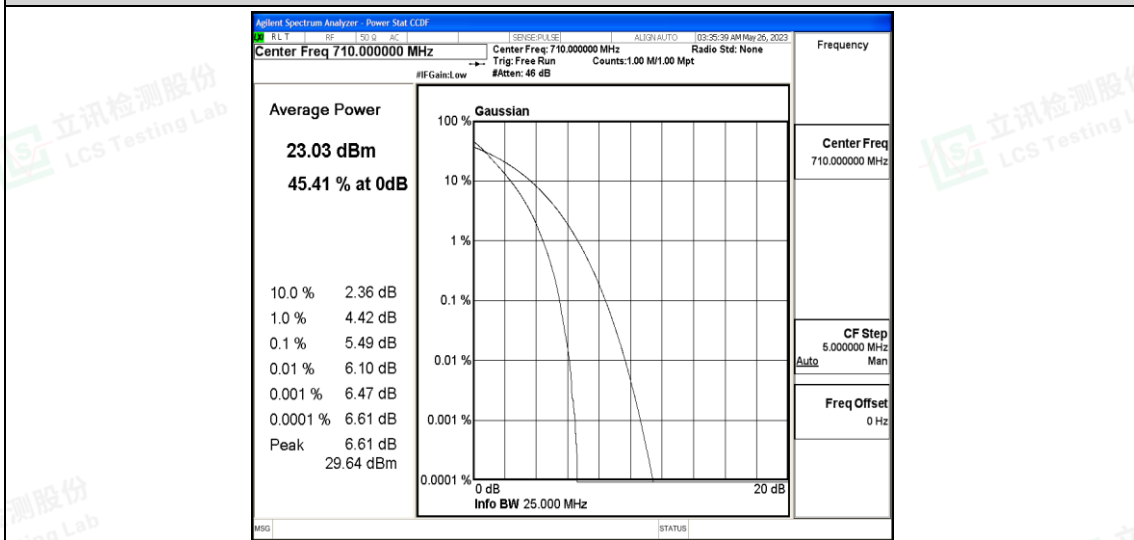




Band17-10MHz-QPSK-23780-50RB#0

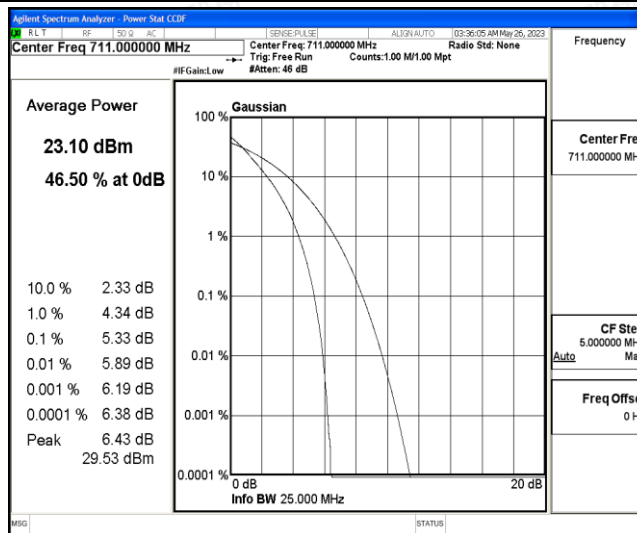


Band17-10MHz-QPSK-23790-50RB#0

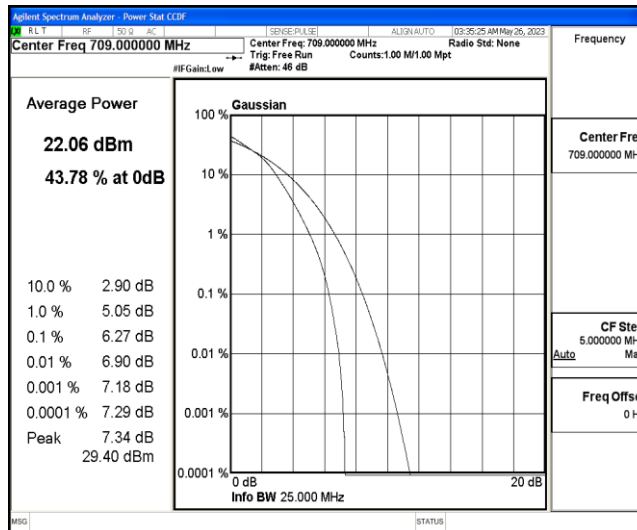


Band17-10MHz-QPSK-23800-50RB#0

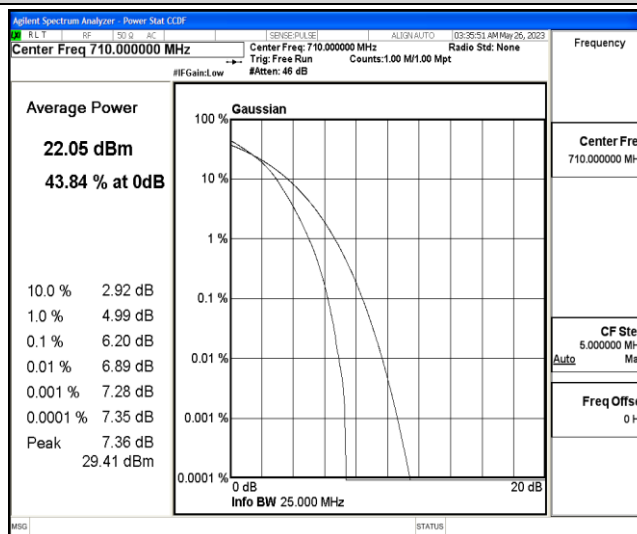




Band17-10MHz-16QAM-23780-50RB#0

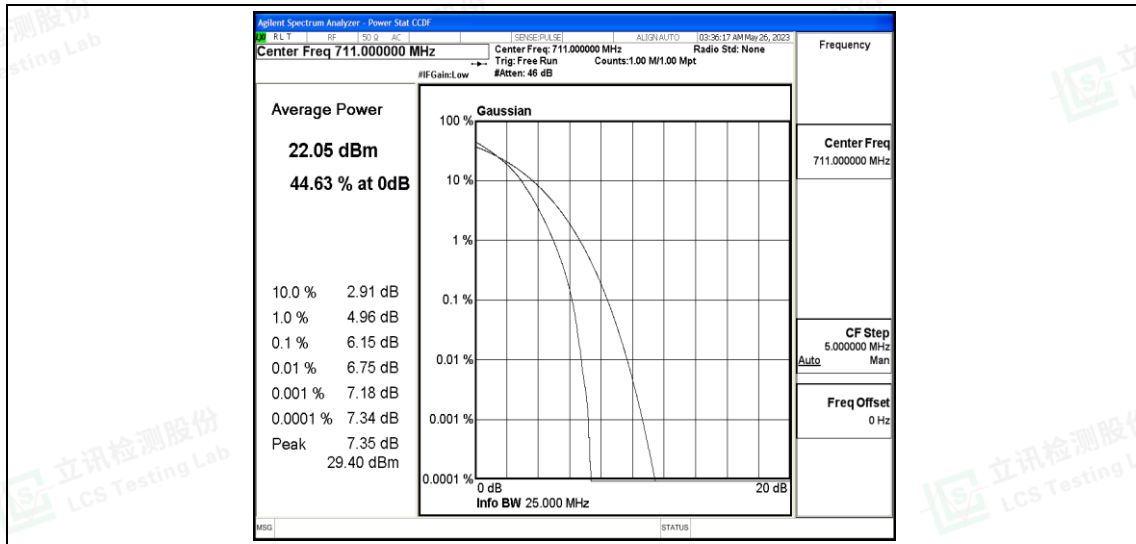


Band17-10MHz-16QAM-23790-50RB#0



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







K.3 26dB Bandwidth and Occupied Bandwidth

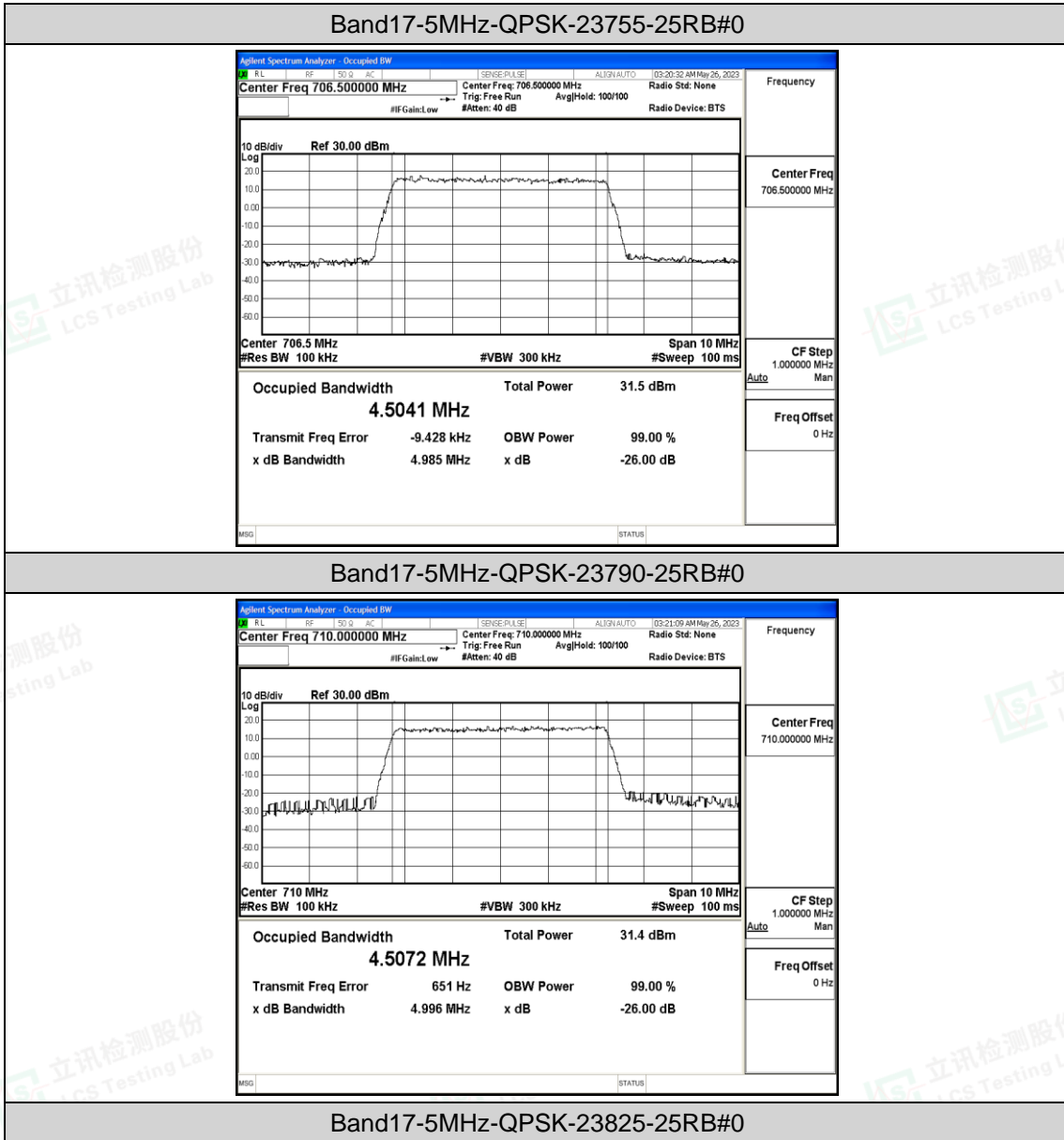
Test Result

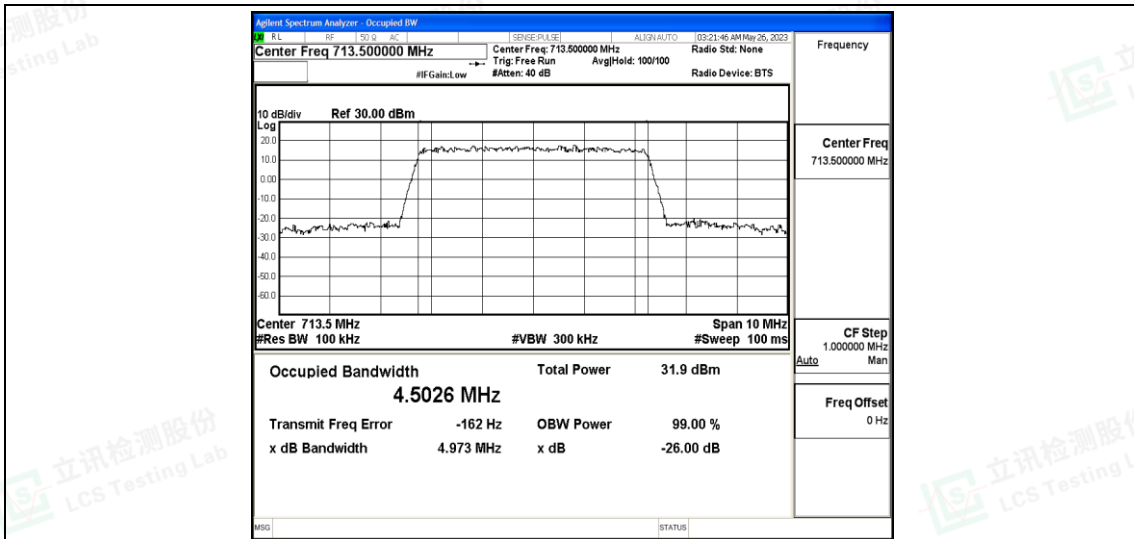
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5041	4.985	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5072	4.996	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5026	4.973	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5294	4.991	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5240	4.993	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.4922	4.942	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0247	9.938	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0272	9.911	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9887	9.922	PASS
Band17	10MHz	16QAM	23780	50RB#0	9.0276	9.955	PASS
Band17	10MHz	16QAM	23790	50RB#0	9.0087	9.826	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9820	9.882	PASS



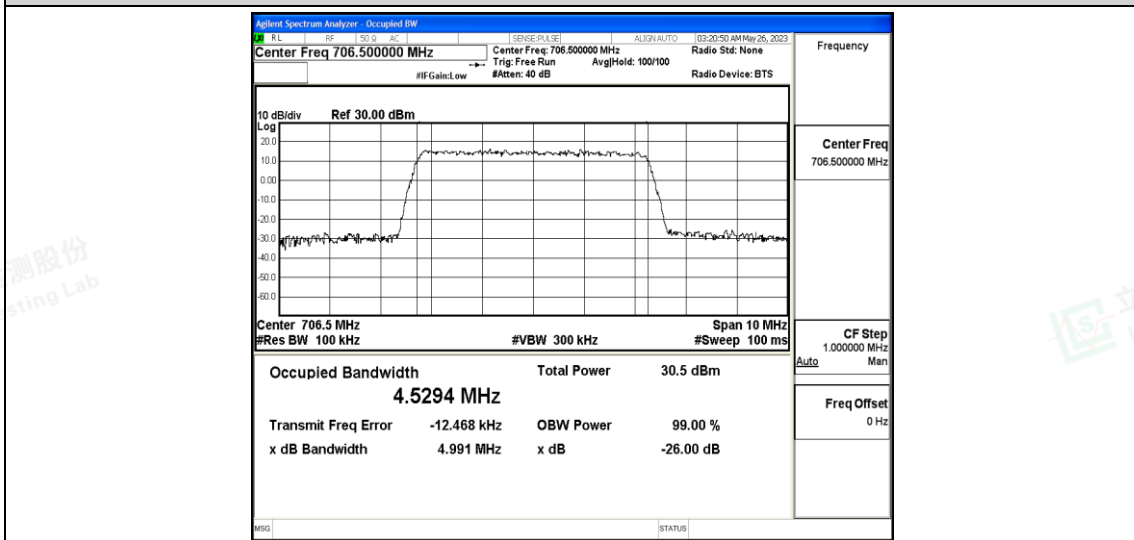


Test Graphs

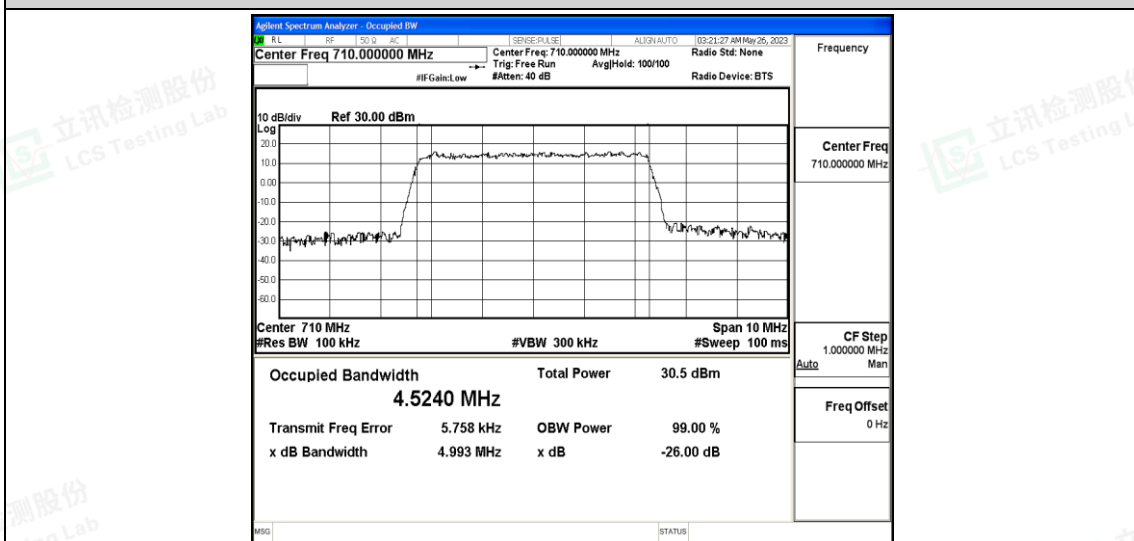




Band17-5MHz-16QAM-23755-25RB#0

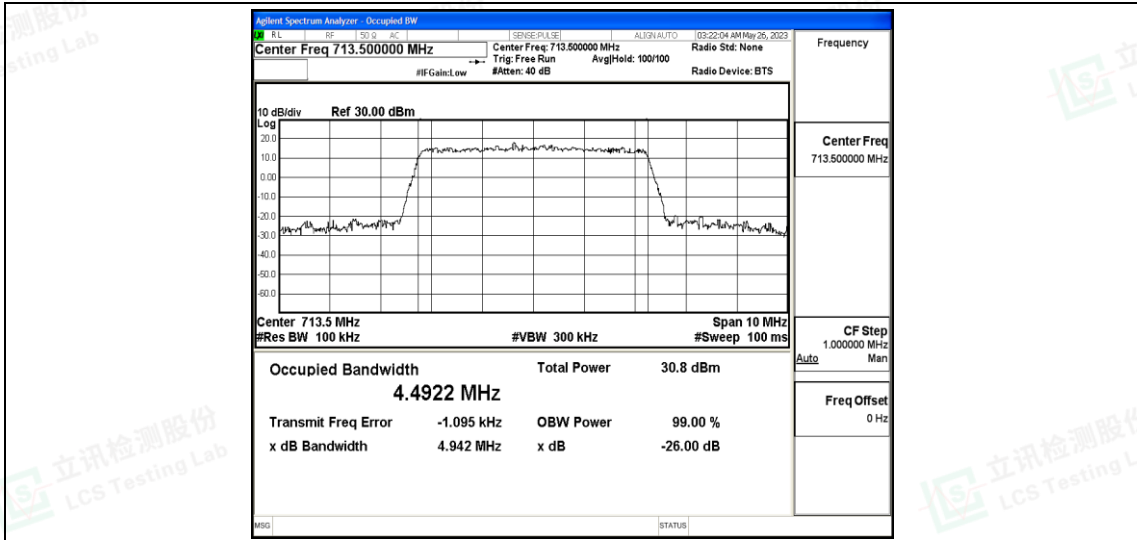


Band17-5MHz-16QAM-23790-25RB#0

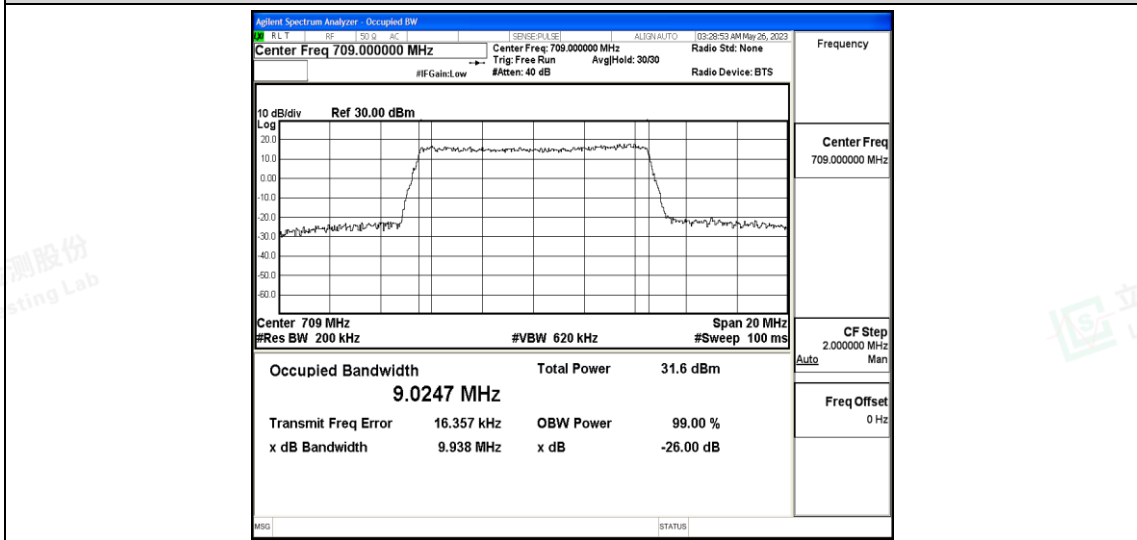


Band17-5MHz-16QAM-23825-25RB#0

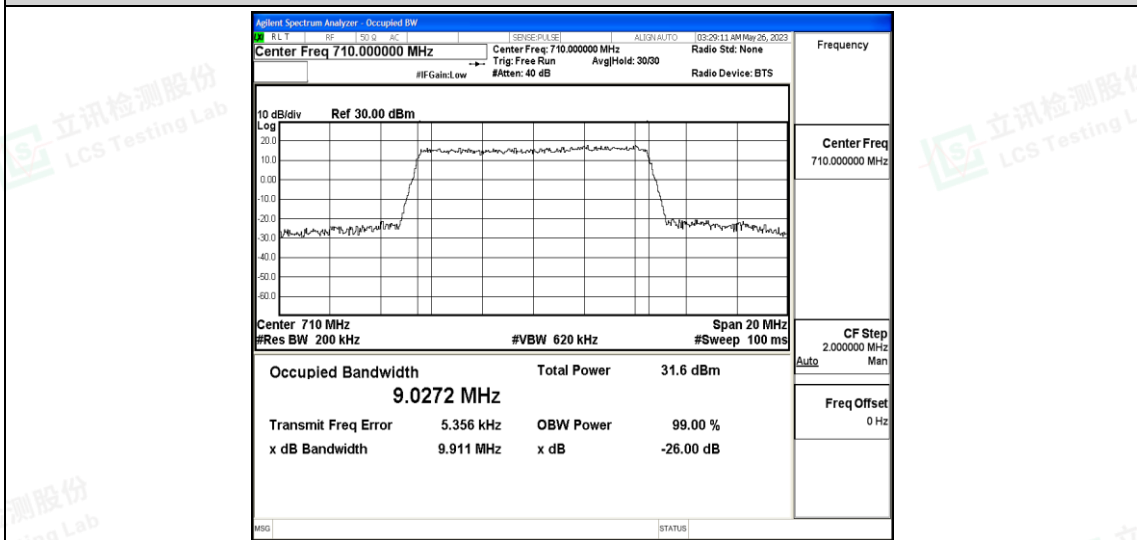




Band17-10MHz-QPSK-23780-50RB#0

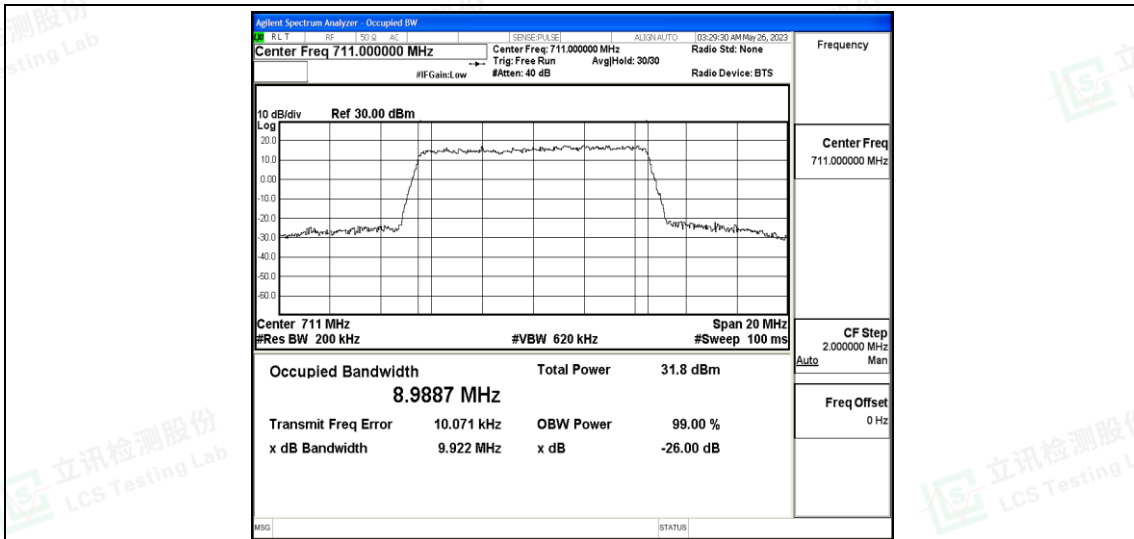


Band17-10MHz-QPSK-23790-50RB#0

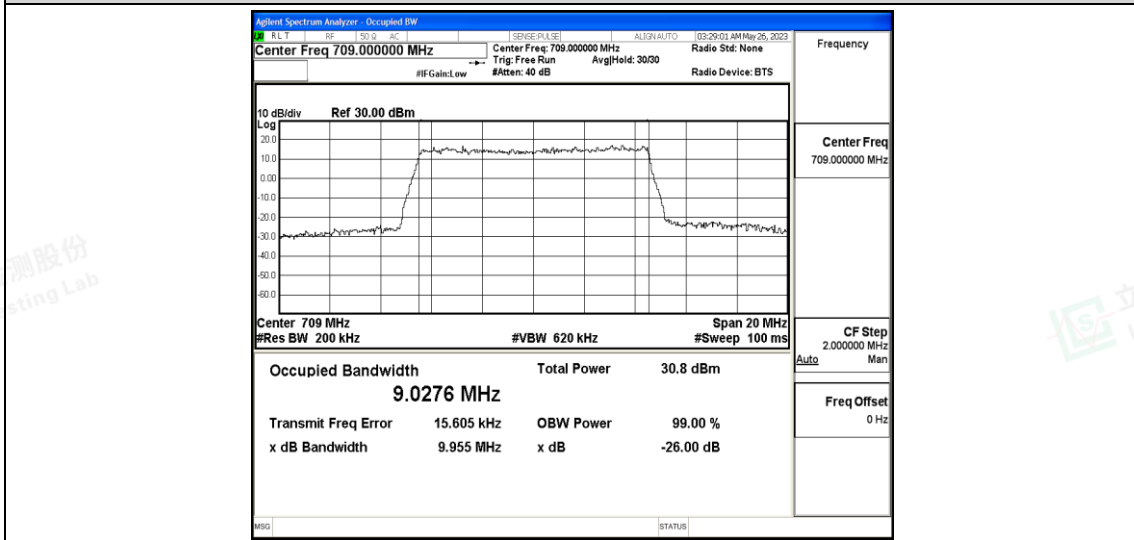


Band17-10MHz-QPSK-23800-50RB#0

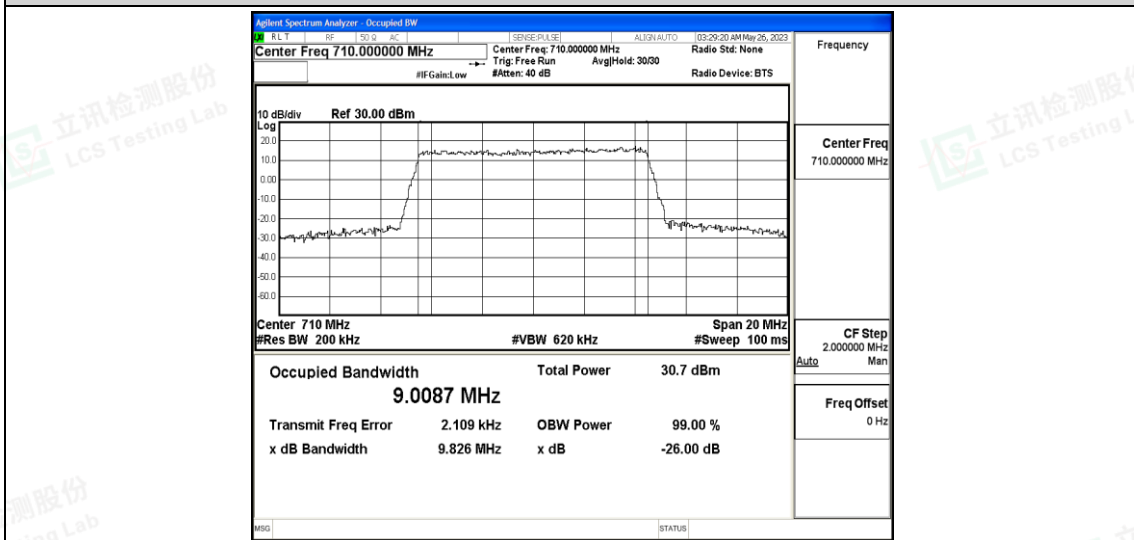




Band17-10MHz-16QAM-23780-50RB#0

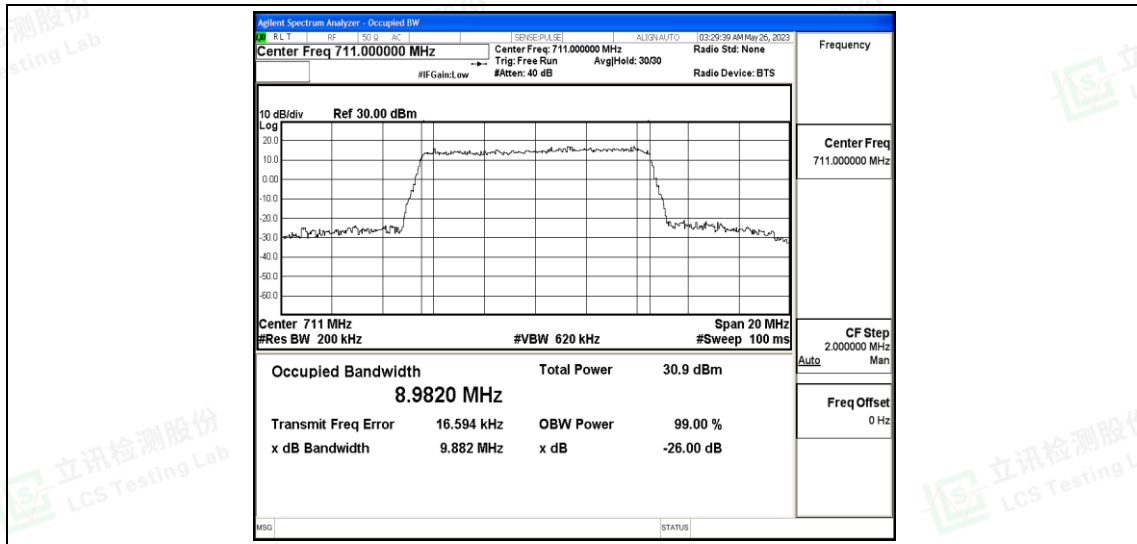


Band17-10MHz-16QAM-23790-50RB#0



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





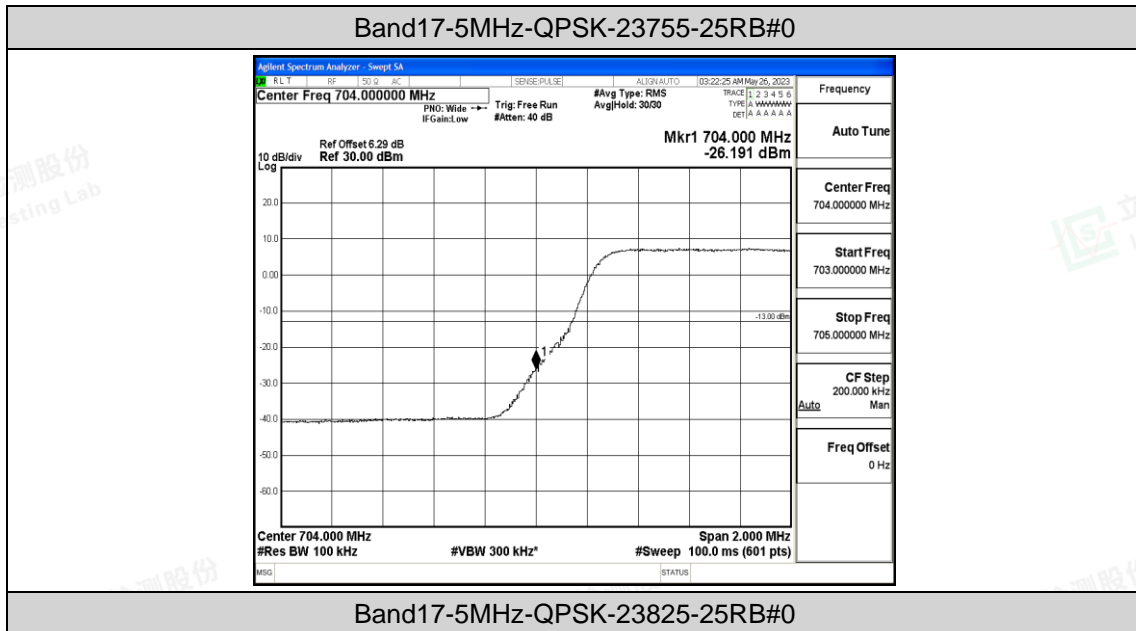


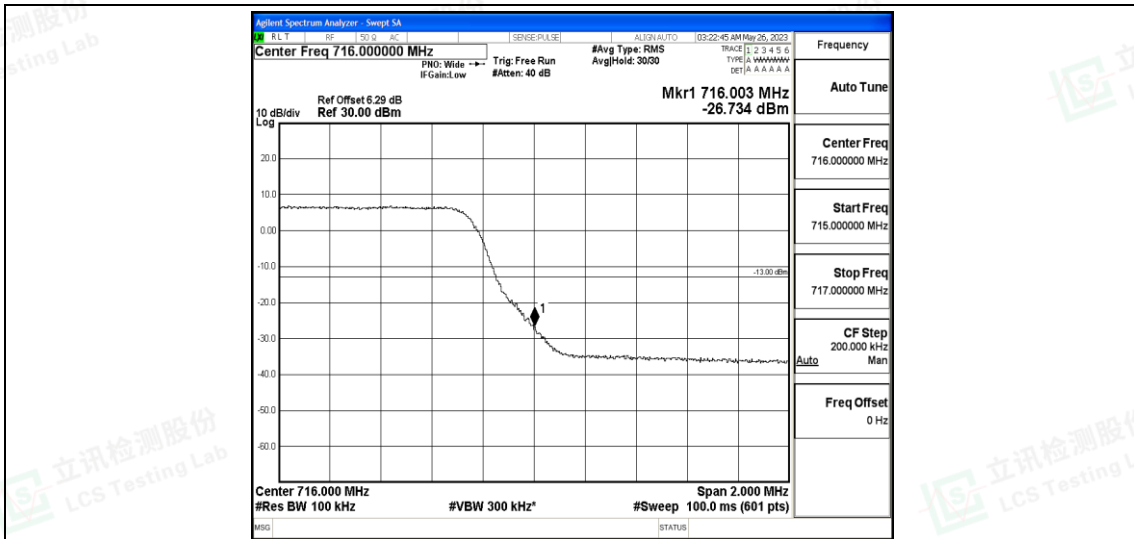
K.4 Band Edge

Test Result

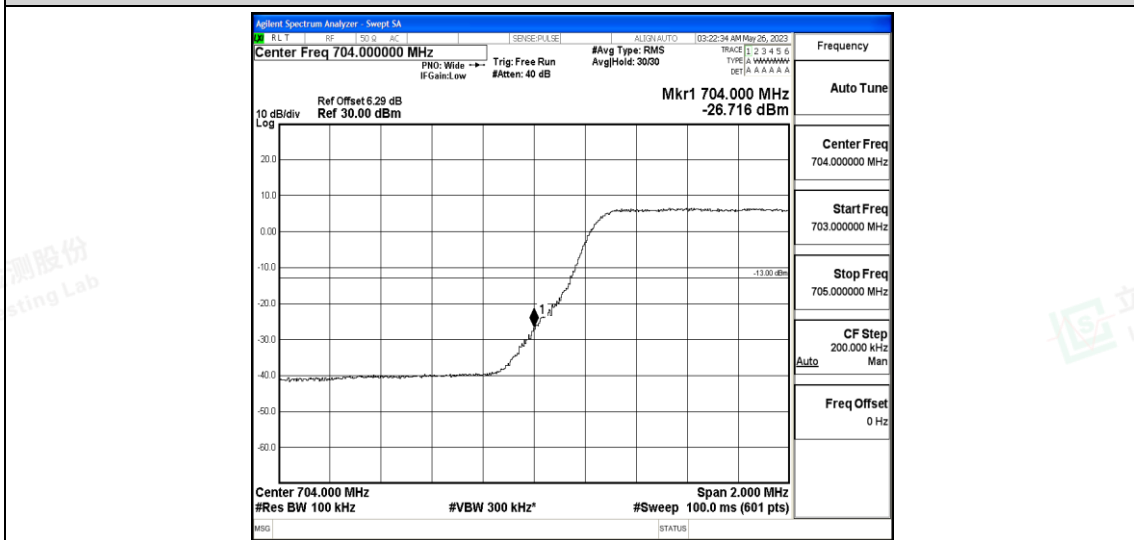
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-26.19	PASS
Band17	5MHz	QPSK	23825	25RB#0	-26.73	PASS
Band17	5MHz	16QAM	23755	25RB#0	-26.72	PASS
Band17	5MHz	16QAM	23825	25RB#0	-27.96	PASS
Band17	10MHz	QPSK	23780	50RB#0	-32.99,-29.23	PASS
Band17	10MHz	QPSK	23800	50RB#0	-28.71,-31.75	PASS
Band17	10MHz	16QAM	23780	50RB#0	-34.42,-29.89	PASS
Band17	10MHz	16QAM	23800	50RB#0	-29.85,-33.24	PASS

Test Graphs

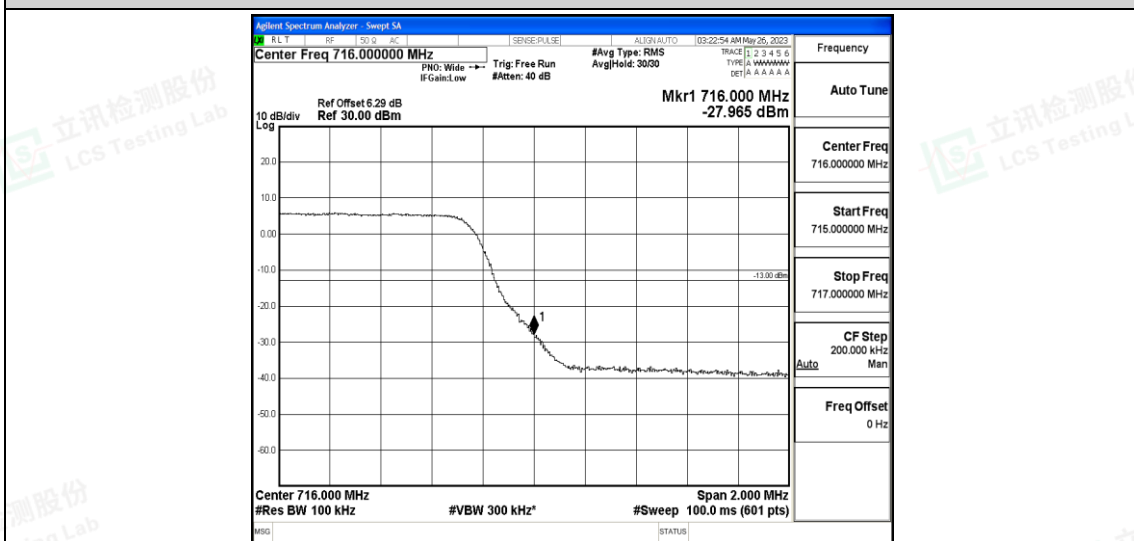




Band17-5MHz-16QAM-23755-25RB#0

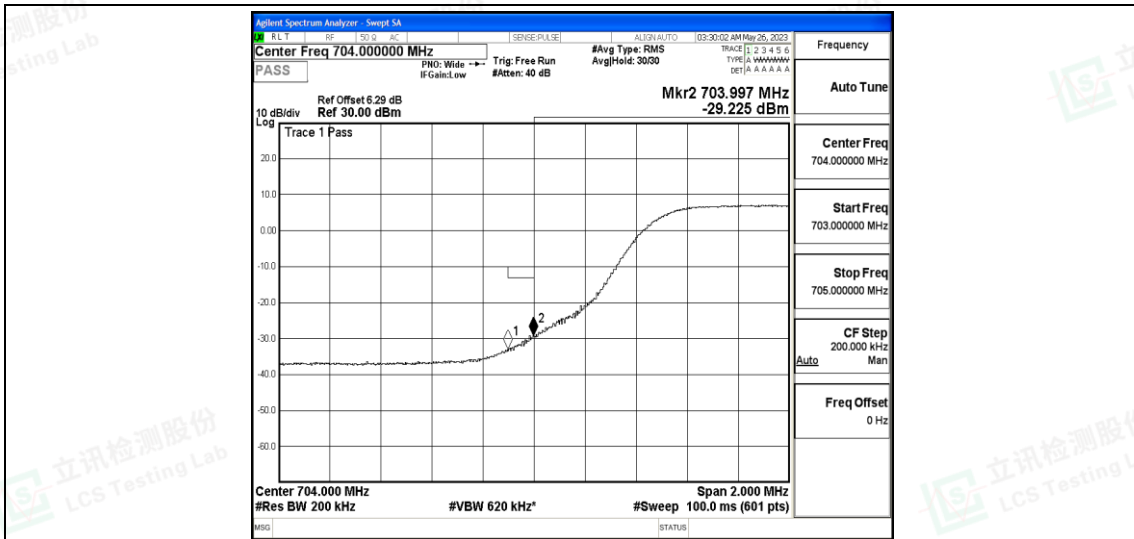


Band17-5MHz-16QAM-23825-25RB#0

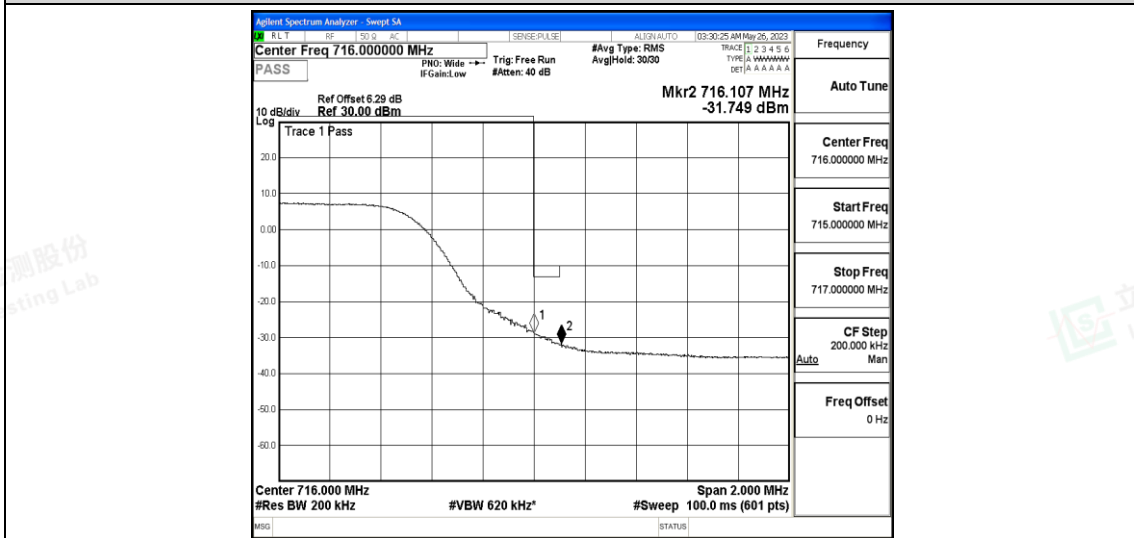


Band17-10MHz-QPSK-23780-50RB#0

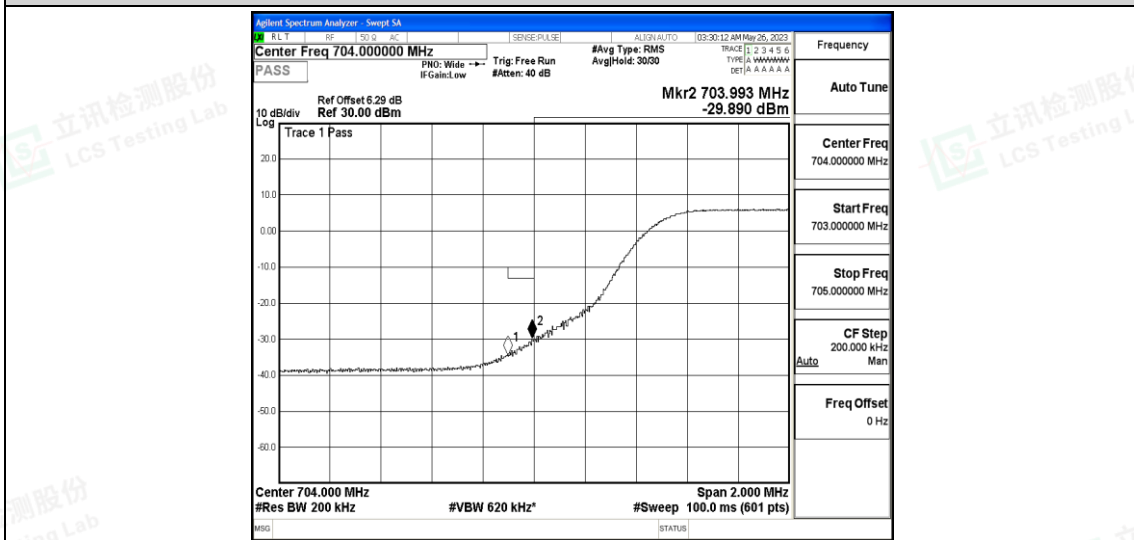




Band17-10MHz-QPSK-23800-50RB#0

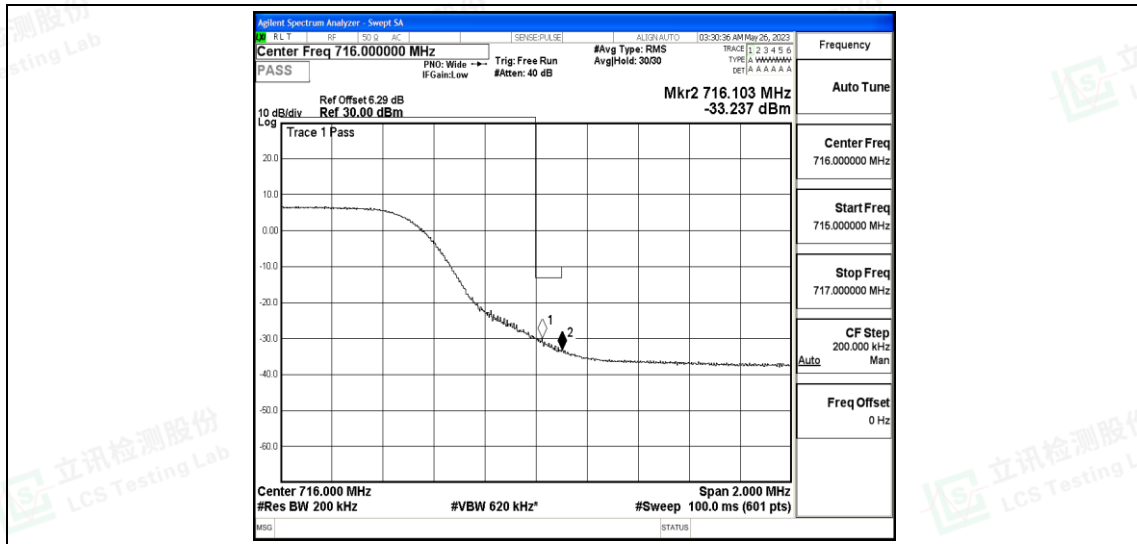


Band17-10MHz-16QAM-23780-50RB#0



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







K.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	-54.84	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-51.43	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-40.66	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000MHz	-44.57	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-54.81	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-52.02	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.68	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-43.62	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-54.96	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-51.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-39.91	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000MHz	-43.62	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-55.3	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-50.17	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-40.82	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000MHz	-44.63	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-54.8	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-51.55	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-41.08	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.33	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-55.35	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-52.74	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-40.83	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000MHz	-44.63	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-55.65	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-50.63	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-41.34	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000MHz	-44.22	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-55.21	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-50.71	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.92	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-44.4	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-55.09	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-51.18	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-40.61	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

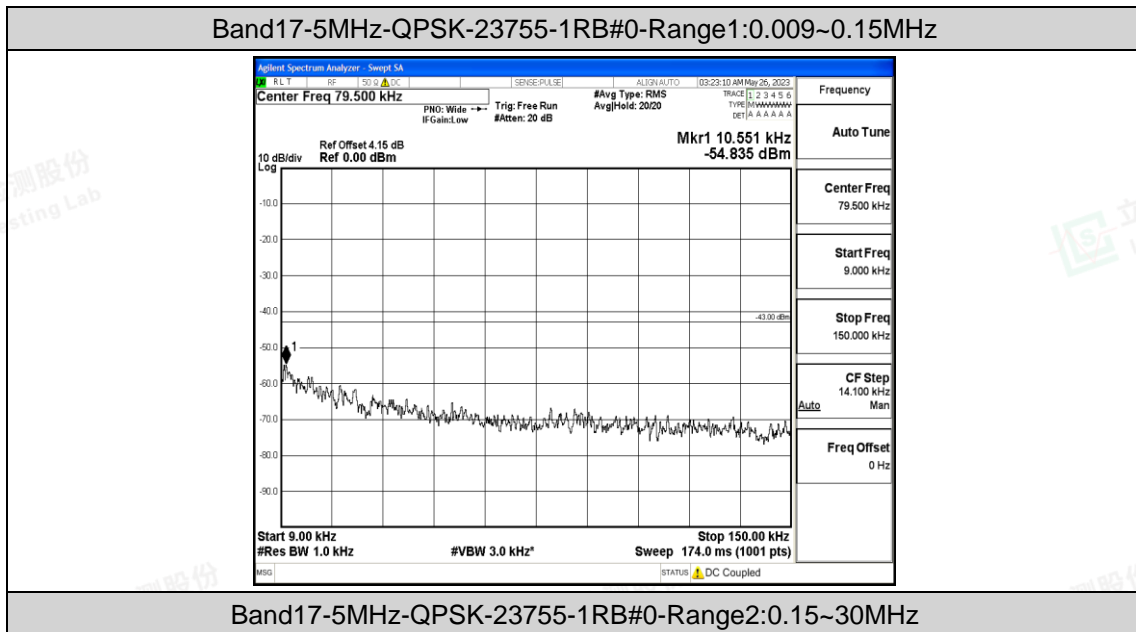
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

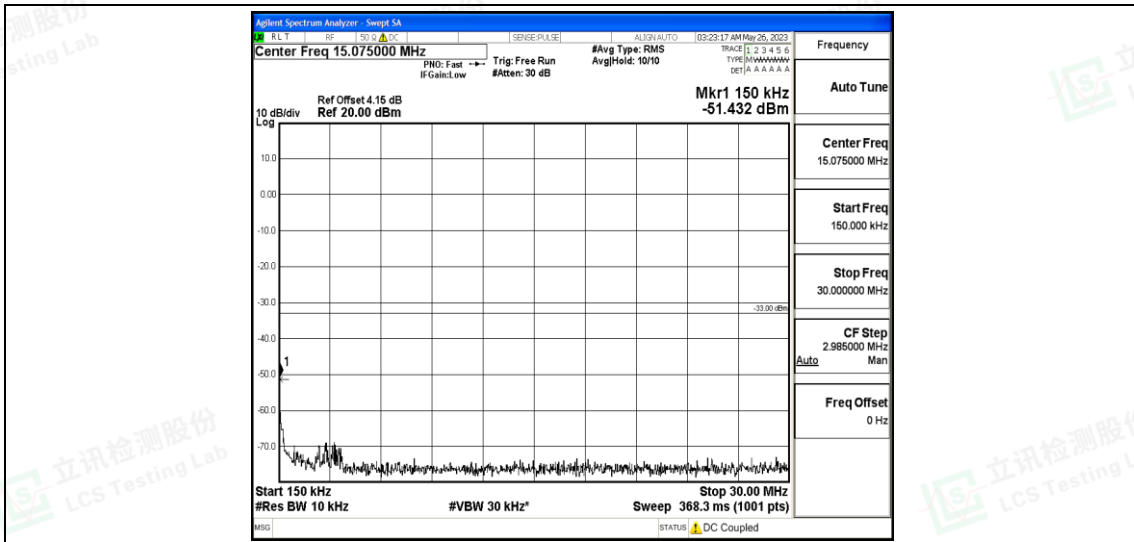
Scan code to check authenticity



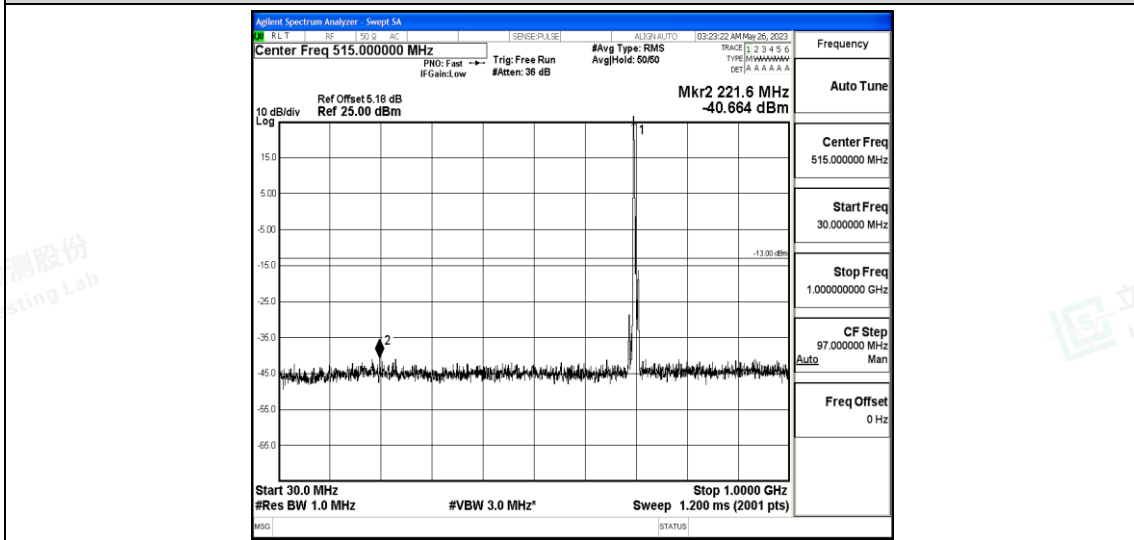
Band17	10MHz	QPSK	23800	1RB#0	Range4:1000~10000MHz	-43.85	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:0.009~0.15MHz	-53.93	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:0.15~30MHz	-49.91	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range3:30~1000MHz	-40.4	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range4:1000~10000MHz	-44.35	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-55.1	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-49.04	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-40.29	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-44.8	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:0.009~0.15MHz	-53.23	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:0.15~30MHz	-49.59	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range3:30~1000MHz	-39.87	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range4:1000~10000MHz	-44.68	PASS

Test Graphs

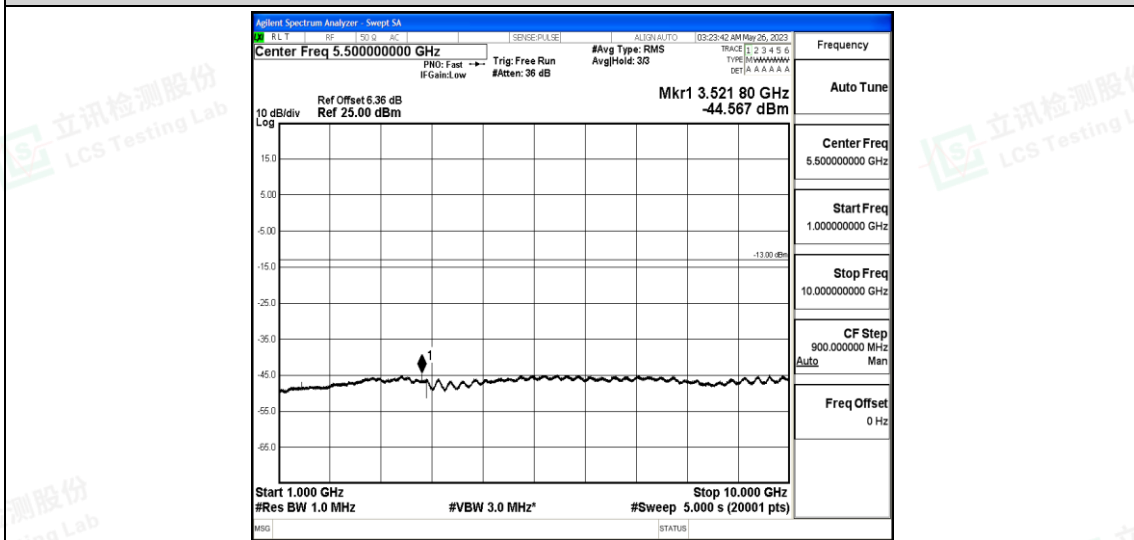




Band17-5MHz-QPSK-23755-1RB#0-Range3:30~1000MHz

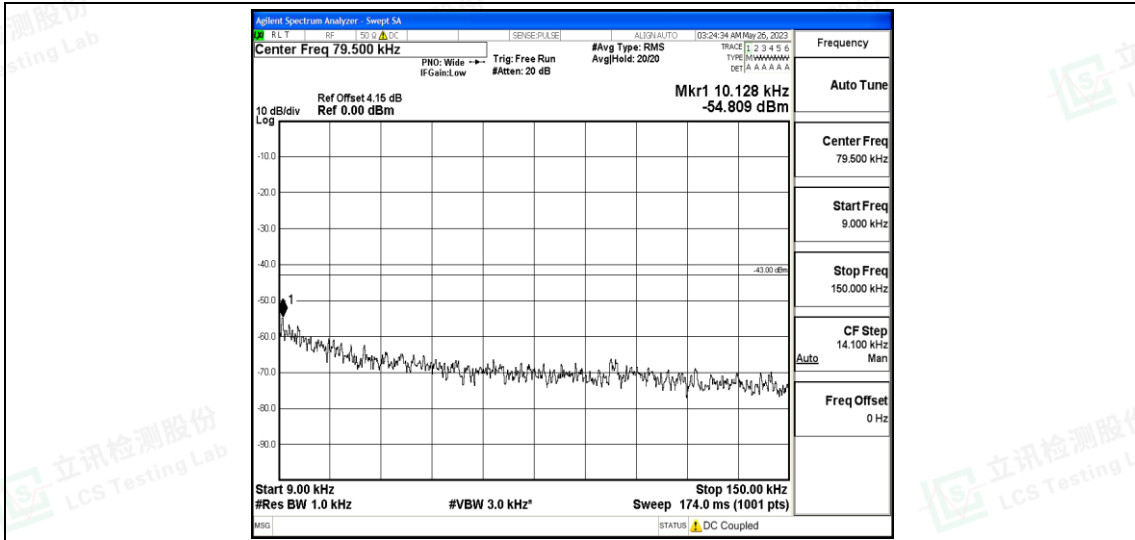


Band17-5MHz-QPSK-23755-1RB#0-Range4:1000~10000MHz

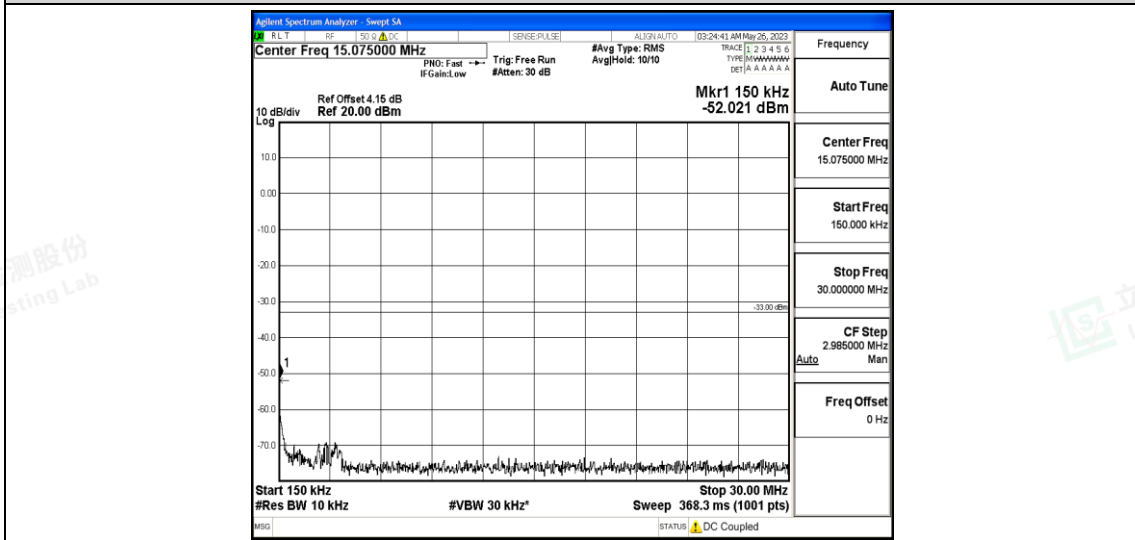


Band17-5MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

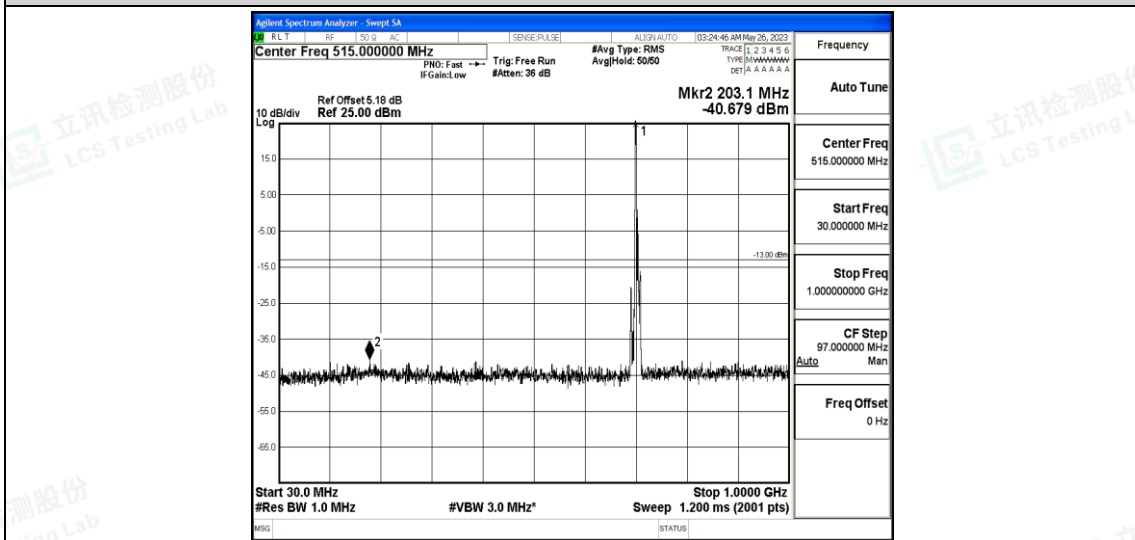




Band17-5MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

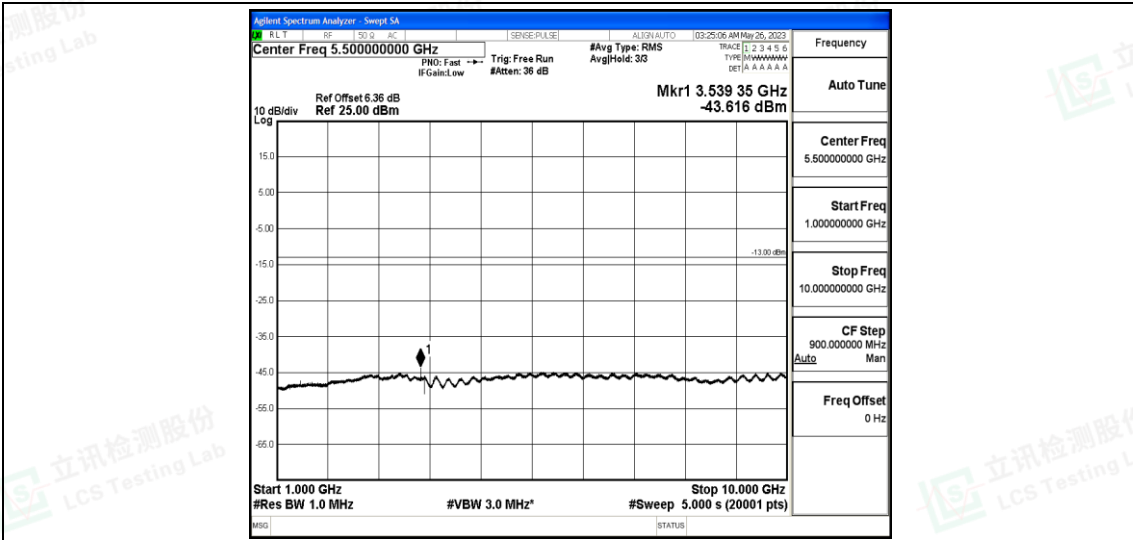


Band17-5MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

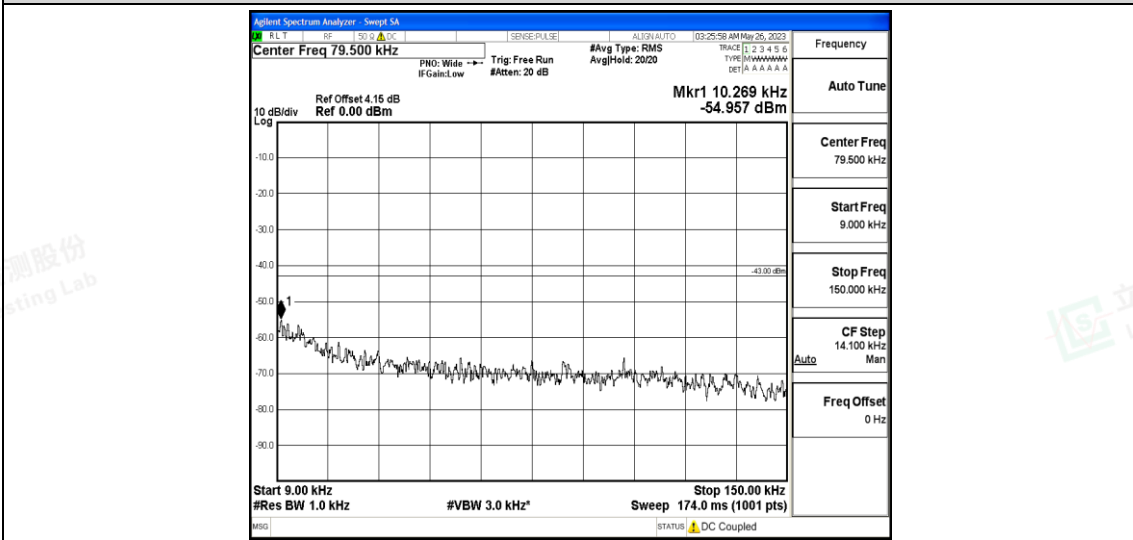


Band17-5MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

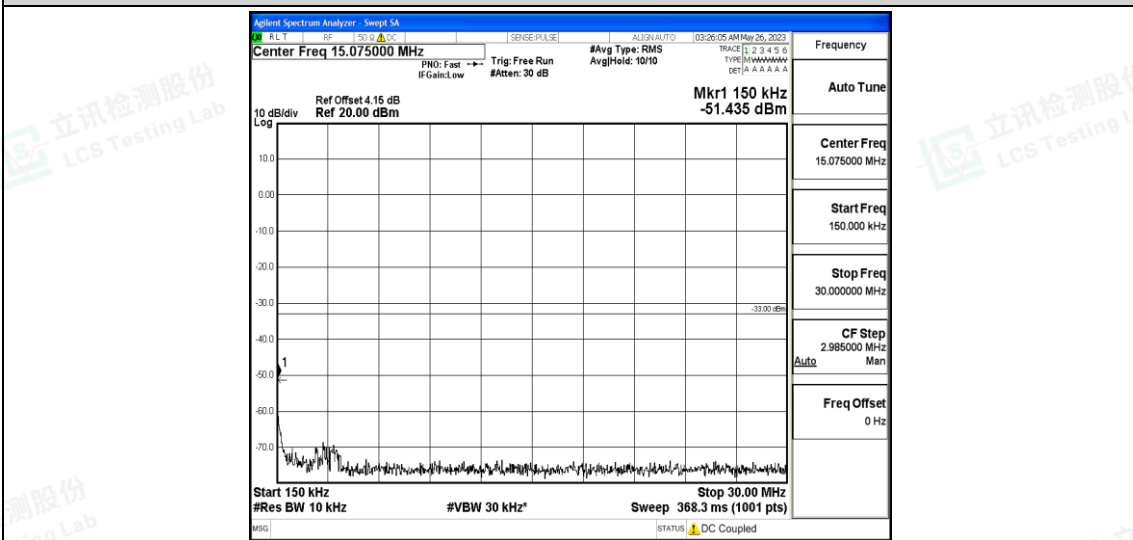




Band17-5MHz-QPSK-23825-1RB#0-Range1:0.009~0.15MHz

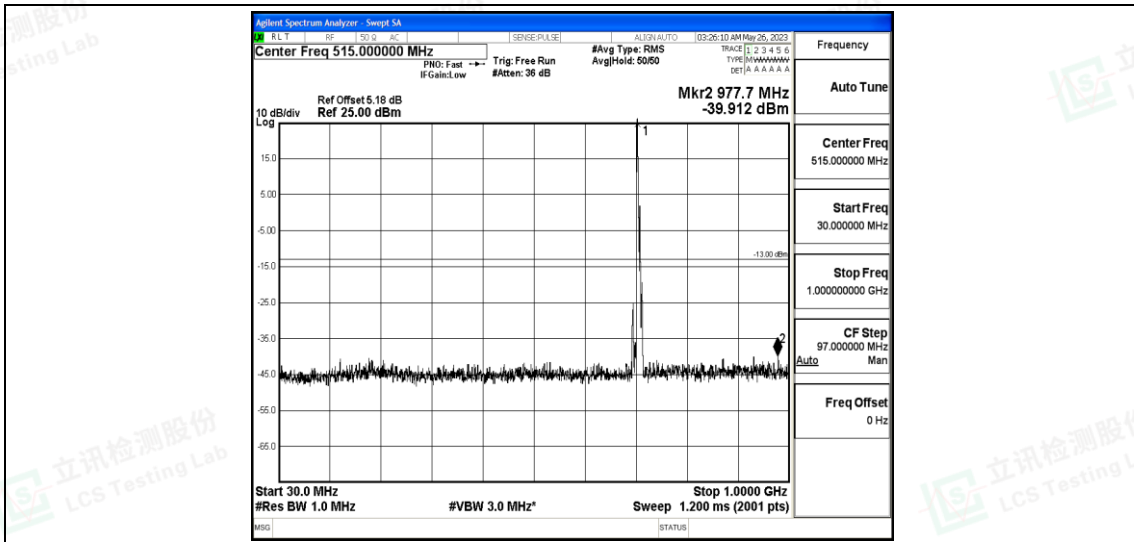


Band17-5MHz-QPSK-23825-1RB#0-Range2:0.15~30MHz

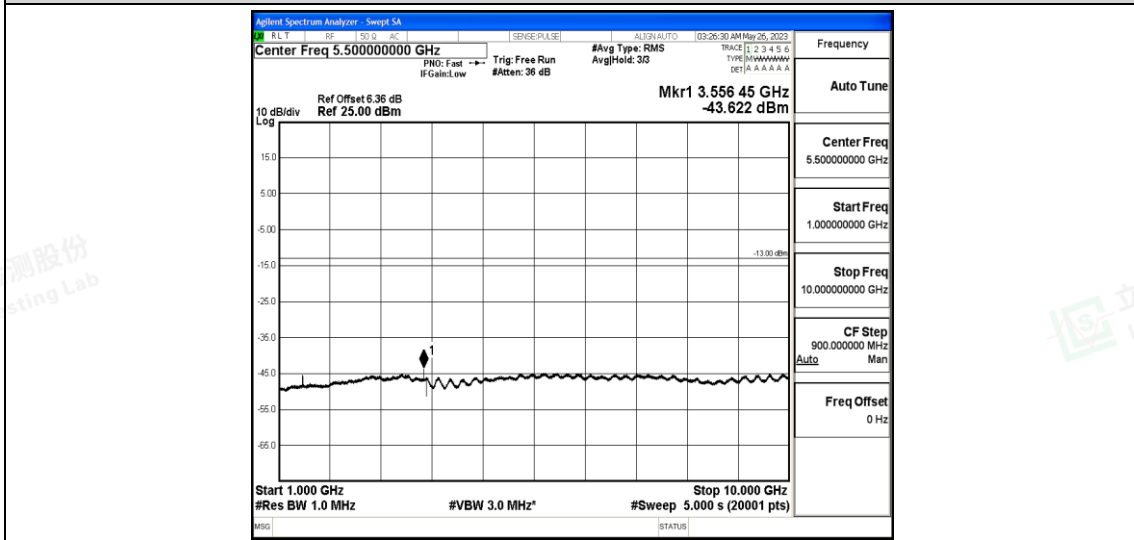


Band17-5MHz-QPSK-23825-1RB#0-Range3:30~1000MHz

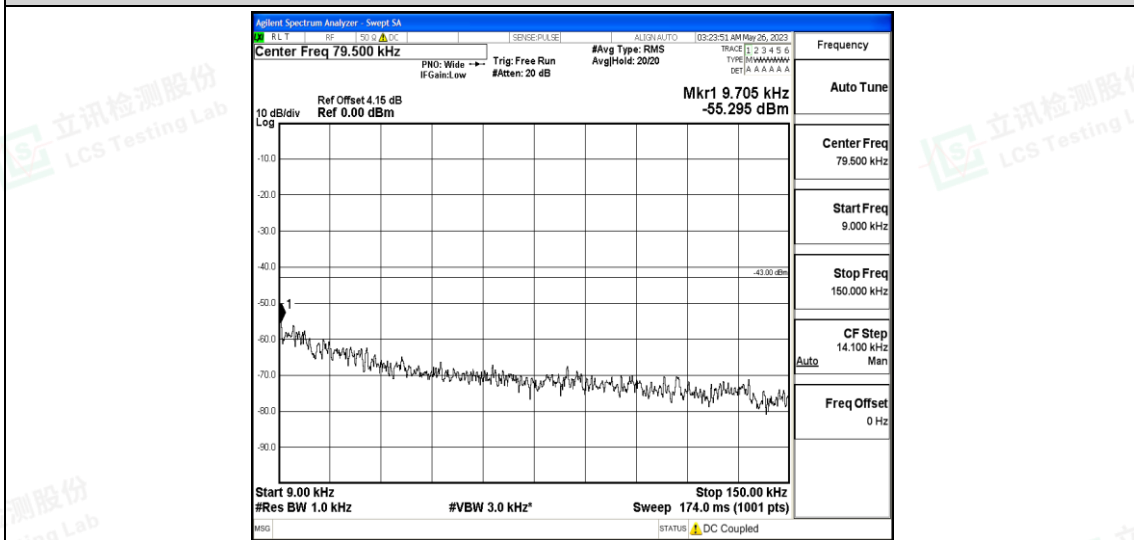




Band17-5MHz-QPSK-23825-1RB#0-Range4:1000~10000MHz

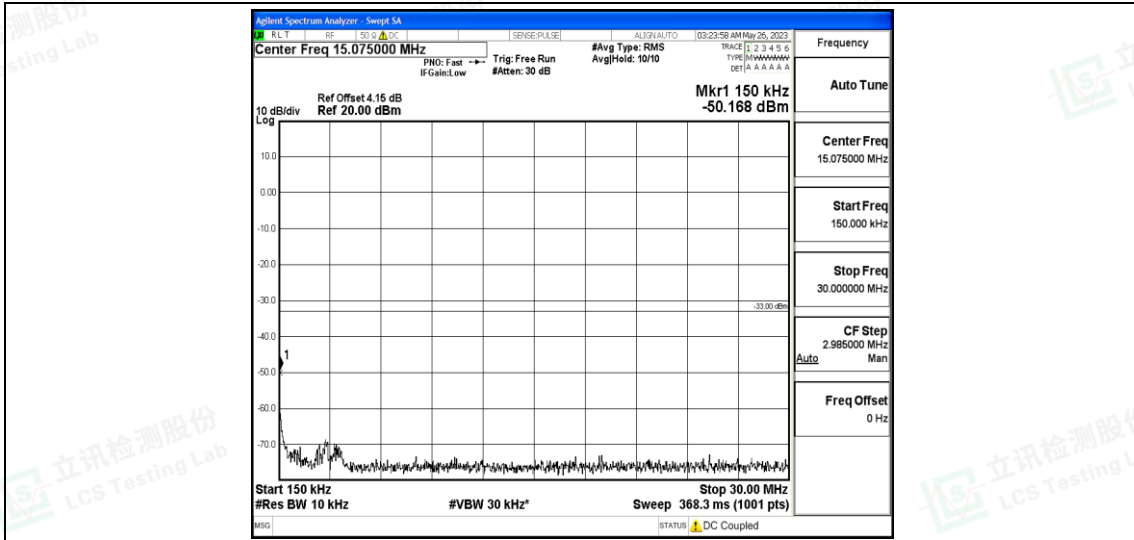


Band17-5MHz-16QAM-23755-1RB#0-Range1:0.009~0.15MHz

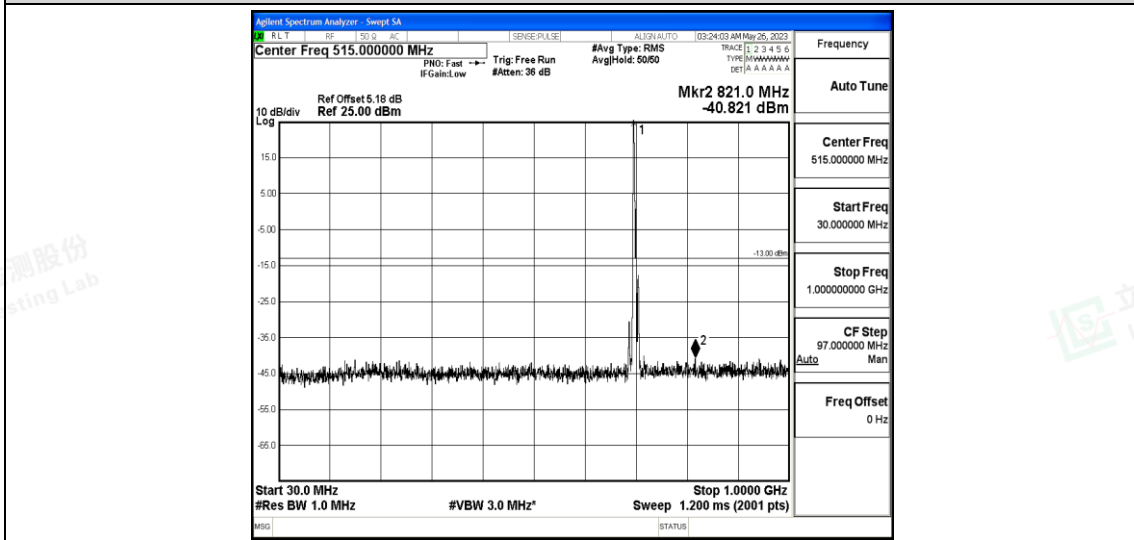


Band17-5MHz-16QAM-23755-1RB#0-Range2:0.15~30MHz

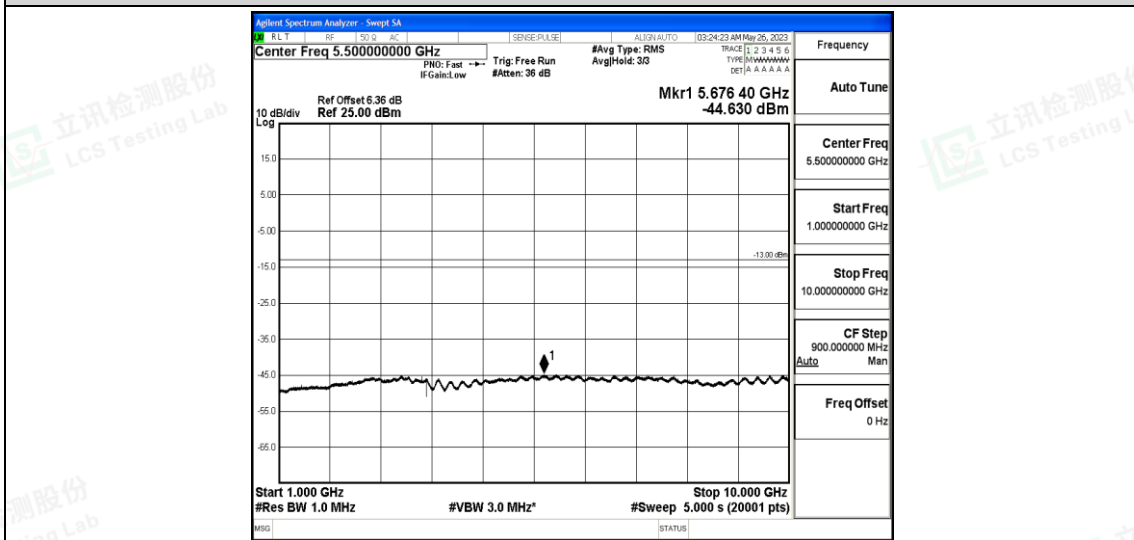




Band17-5MHz-16QAM-23755-1RB#0-Range3:30~1000MHz

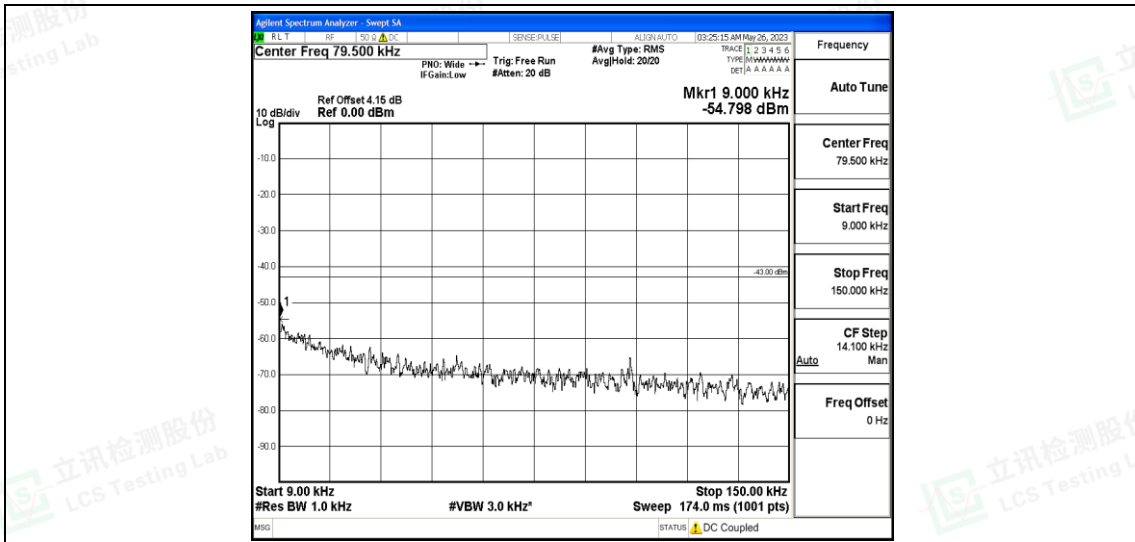


Band17-5MHz-16QAM-23755-1RB#0-Range4:1000~10000MHz

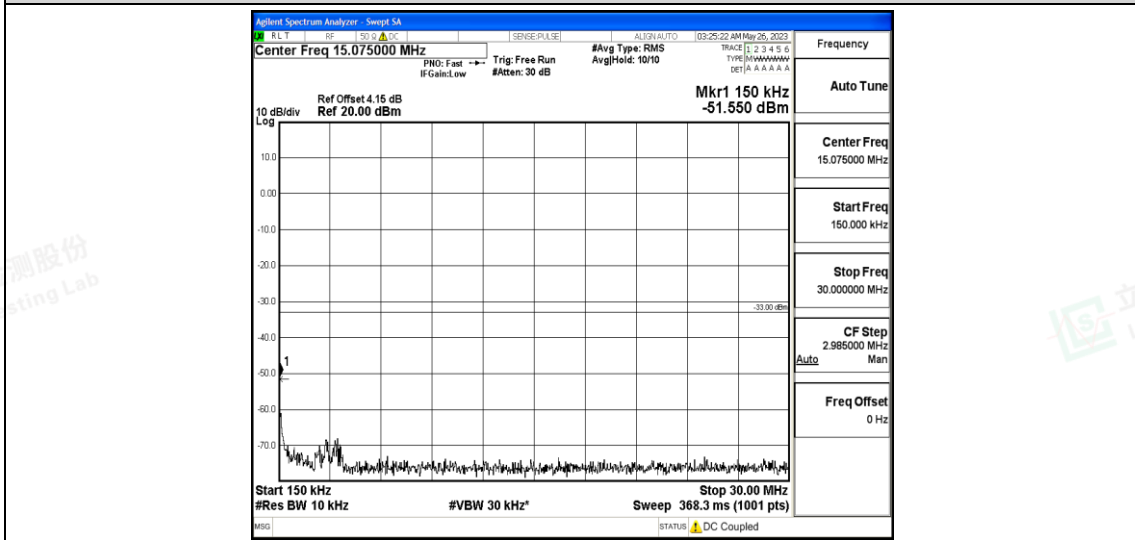


Band17-5MHz-16QAM-23790-1RB#0-Range1:0.009~0.15MHz

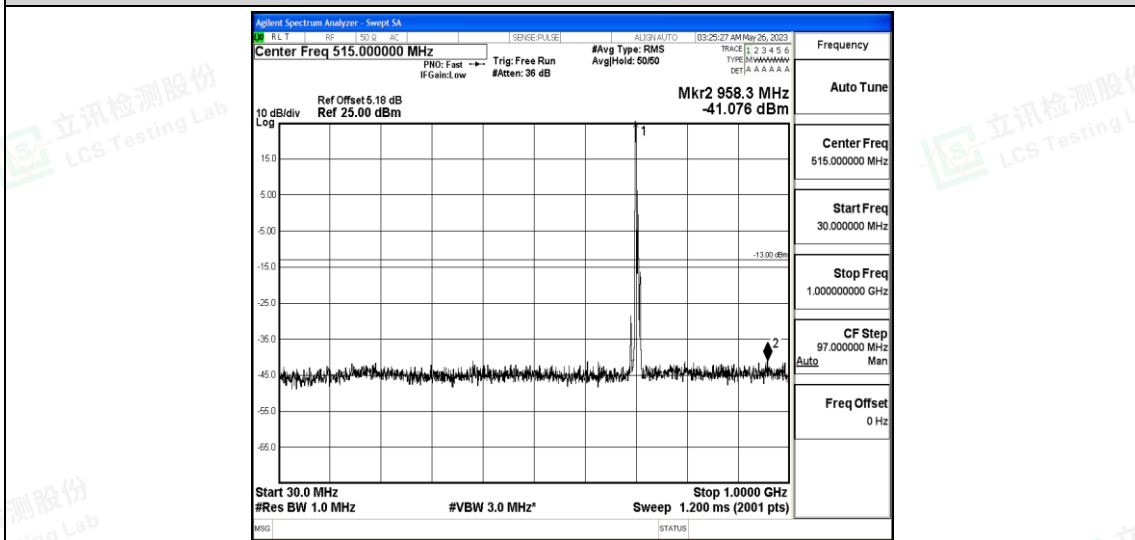




Band17-5MHz-16QAM-23790-1RB#0-Range2:0.15~30MHz



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



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

