



Appendix C: Test Data for E-UTRA Band 12

Product Name: Enterprise Catm1 tracker

Test Model: ETCH1S

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Ling Zhu





C.1 Conducted power

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	20.55	PASS
Band12	1.4MHz	23017	QPSK	1	5	Low	20.33	PASS
Band12	1.4MHz	23017	QPSK	6	0	Low	18.10	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	20.34	PASS
Band12	1.4MHz	23095	QPSK	1	5	Low	20.50	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	18.20	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	20.28	PASS
Band12	1.4MHz	23173	QPSK	1	5	High	20.16	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	18.34	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	19.31	PASS
Band12	1.4MHz	23017	16QAM	1	5	Low	19.22	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	18.18	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	19.43	PASS
Band12	1.4MHz	23095	16QAM	1	5	Low	19.32	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	18.30	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	19.43	PASS
Band12	1.4MHz	23173	16QAM	1	5	High	19.37	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	18.28	PASS
Band12	3MHz	23025	QPSK	1	0	Low	20.18	PASS
Band12	3MHz	23025	QPSK	1	5	Low	20.11	PASS
Band12	3MHz	23025	QPSK	6	0	Low	18.15	PASS
Band12	3MHz	23095	QPSK	1	0	Low	20.66	PASS
Band12	3MHz	23095	QPSK	1	5	Low	20.42	PASS
Band12	3MHz	23095	QPSK	6	0	Low	18.21	PASS
Band12	3MHz	23165	QPSK	1	0	High	20.28	PASS
Band12	3MHz	23165	QPSK	1	5	High	20.19	PASS
Band12	3MHz	23165	QPSK	6	0	High	18.24	PASS
Band12	3MHz	23025	16QAM	1	0	Low	19.30	PASS
Band12	3MHz	23025	16QAM	1	5	Low	19.28	PASS
Band12	3MHz	23025	16QAM	6	0	Low	18.06	PASS
Band12	3MHz	23095	16QAM	1	0	Low	19.33	PASS
Band12	3MHz	23095	16QAM	1	5	Low	19.16	PASS
Band12	3MHz	23095	16QAM	6	0	Low	18.24	PASS
Band12	3MHz	23165	16QAM	1	0	High	19.38	PASS
Band12	3MHz	23165	16QAM	1	5	High	19.33	PASS





Band12	3MHz	23165	16QAM	6	0	High	18.17	PASS
Band12	5MHz	23035	QPSK	1	0	Low	20.66	PASS
Band12	5MHz	23035	QPSK	1	5	Low	20.52	PASS
Band12	5MHz	23035	QPSK	6	0	Low	19.16	PASS
Band12	5MHz	23095	QPSK	1	0	Low	20.58	PASS
Band12	5MHz	23095	QPSK	1	5	Low	20.60	PASS
Band12	5MHz	23095	QPSK	6	0	Low	19.32	PASS
Band12	5MHz	23155	QPSK	1	0	High	20.34	PASS
Band12	5MHz	23155	QPSK	1	5	High	20.26	PASS
Band12	5MHz	23155	QPSK	6	0	High	19.27	PASS
Band12	5MHz	23035	16QAM	1	0	Low	20.85	PASS
Band12	5MHz	23035	16QAM	1	5	Low	20.68	PASS
Band12	5MHz	23035	16QAM	6	0	Low	19.11	PASS
Band12	5MHz	23095	16QAM	1	0	Low	20.86	PASS
Band12	5MHz	23095	16QAM	1	5	Low	20.88	PASS
Band12	5MHz	23095	16QAM	6	0	Low	19.18	PASS
Band12	5MHz	23155	16QAM	1	0	High	20.73	PASS
Band12	5MHz	23155	16QAM	1	5	High	20.45	PASS
Band12	5MHz	23155	16QAM	6	0	High	19.18	PASS
Band12	10MHz	23060	QPSK	1	0	Low	20.63	PASS
Band12	10MHz	23060	QPSK	1	5	Low	20.15	PASS
Band12	10MHz	23060	QPSK	6	0	Low	19.14	PASS
Band12	10MHz	23095	QPSK	1	0	Low	20.60	PASS
Band12	10MHz	23095	QPSK	1	5	Low	20.65	PASS
Band12	10MHz	23095	QPSK	6	0	Low	19.04	PASS
Band12	10MHz	23130	QPSK	1	0	High	20.43	PASS
Band12	10MHz	23130	QPSK	1	5	High	20.59	PASS
Band12	10MHz	23130	QPSK	6	0	High	19.30	PASS
Band12	10MHz	23060	16QAM	1	0	Low	20.75	PASS
Band12	10MHz	23060	16QAM	1	5	Low	20.62	PASS
Band12	10MHz	23060	16QAM	6	0	Low	19.10	PASS
Band12	10MHz	23095	16QAM	1	0	Low	20.92	PASS
Band12	10MHz	23095	16QAM	1	5	Low	20.73	PASS
Band12	10MHz	23095	16QAM	6	0	Low	19.06	PASS
Band12	10MHz	23130	16QAM	1	0	High	20.81	PASS
Band12	10MHz	23130	16QAM	1	5	High	20.72	PASS
Band12	10MHz	23130	16QAM	6	0	High	19.23	PASS





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

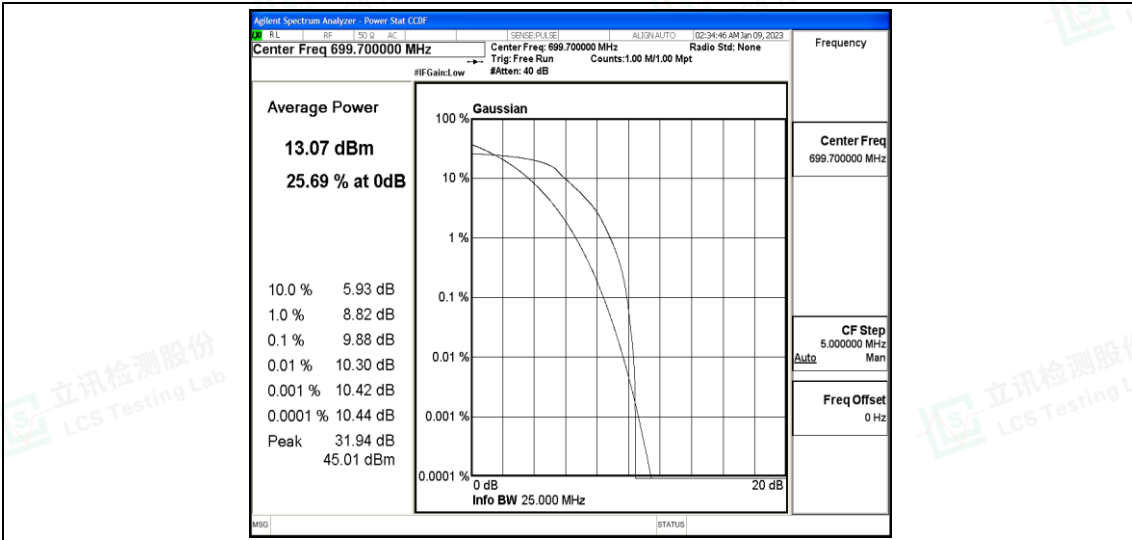
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	9.88	<=13	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	9.21	<=13	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	10.17	<=13	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	9.68	<=13	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	9.82	<=13	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	10.07	<=13	PASS
Band12	3MHz	23025	QPSK	6	0	Low	11.87	<=13	PASS
Band12	3MHz	23095	QPSK	6	0	Low	10.15	<=13	PASS
Band12	3MHz	23165	QPSK	6	0	High	9.00	<=13	PASS
Band12	3MHz	23025	16QAM	6	0	Low	9.34	<=13	PASS
Band12	3MHz	23095	16QAM	6	0	Low	8.97	<=13	PASS
Band12	3MHz	23165	16QAM	6	0	High	8.87	<=13	PASS
Band12	5MHz	23035	QPSK	6	0	Low	11.92	<=13	PASS
Band12	5MHz	23095	QPSK	6	0	Low	9.15	<=13	PASS
Band12	5MHz	23155	QPSK	6	0	High	9.33	<=13	PASS
Band12	5MHz	23035	16QAM	6	0	Low	9.31	<=13	PASS
Band12	5MHz	23095	16QAM	6	0	Low	9.43	<=13	PASS
Band12	5MHz	23155	16QAM	6	0	High	8.90	<=13	PASS
Band12	10MHz	23060	QPSK	6	0	Low	9.75	<=13	PASS
Band12	10MHz	23095	QPSK	6	0	Low	9.24	<=13	PASS
Band12	10MHz	23130	QPSK	6	0	High	9.01	<=13	PASS
Band12	10MHz	23060	16QAM	6	0	Low	10.48	<=13	PASS
Band12	10MHz	23095	16QAM	6	0	Low	8.27	<=13	PASS
Band12	10MHz	23130	16QAM	6	0	High	10.73	<=13	PASS

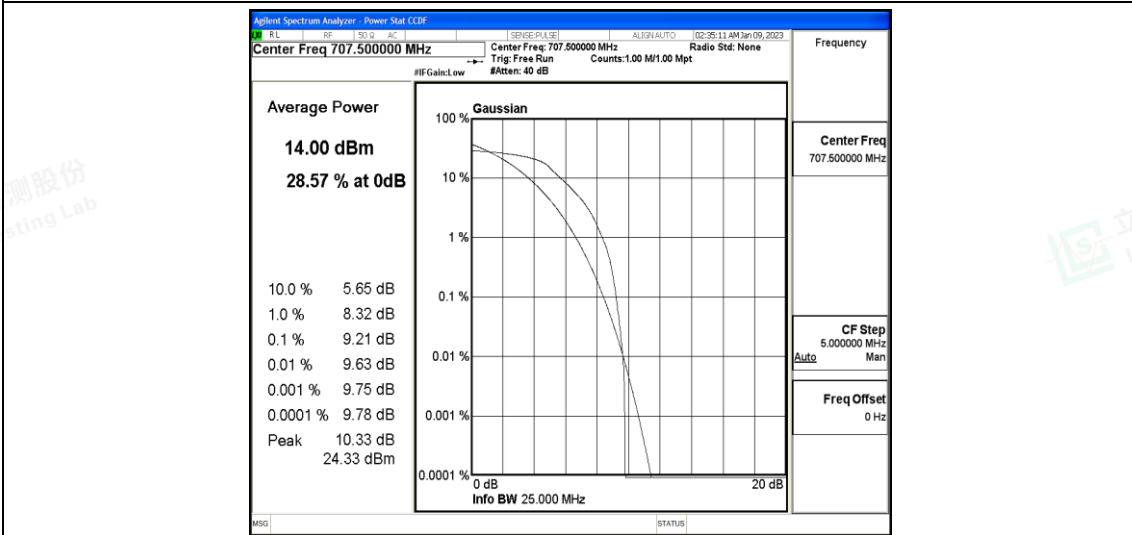




Test Graphs

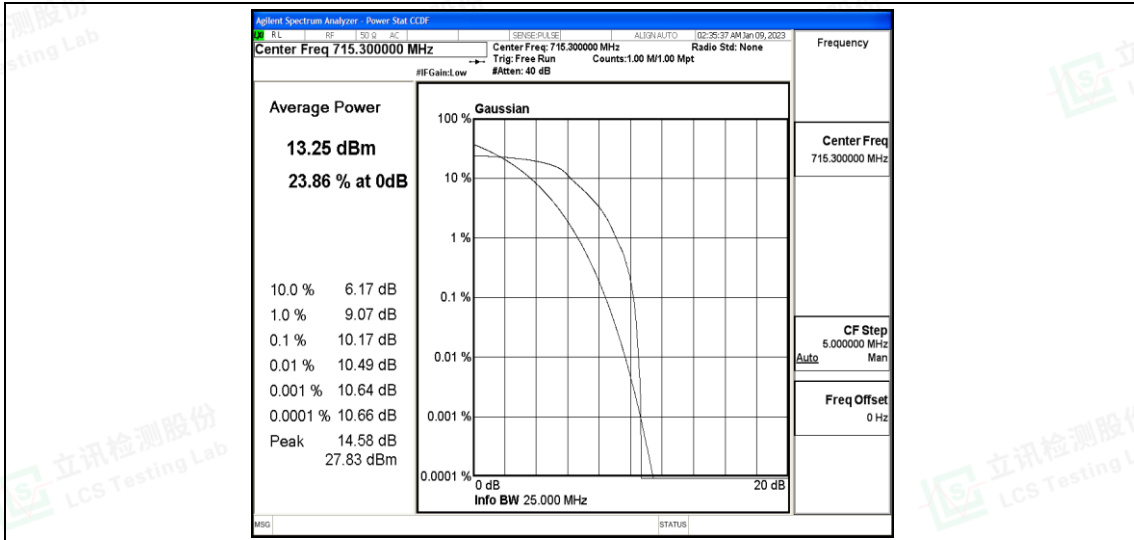


Band12-1.4MHz-QPSK-23017-6-0-Low-9.88-<=13-PASS

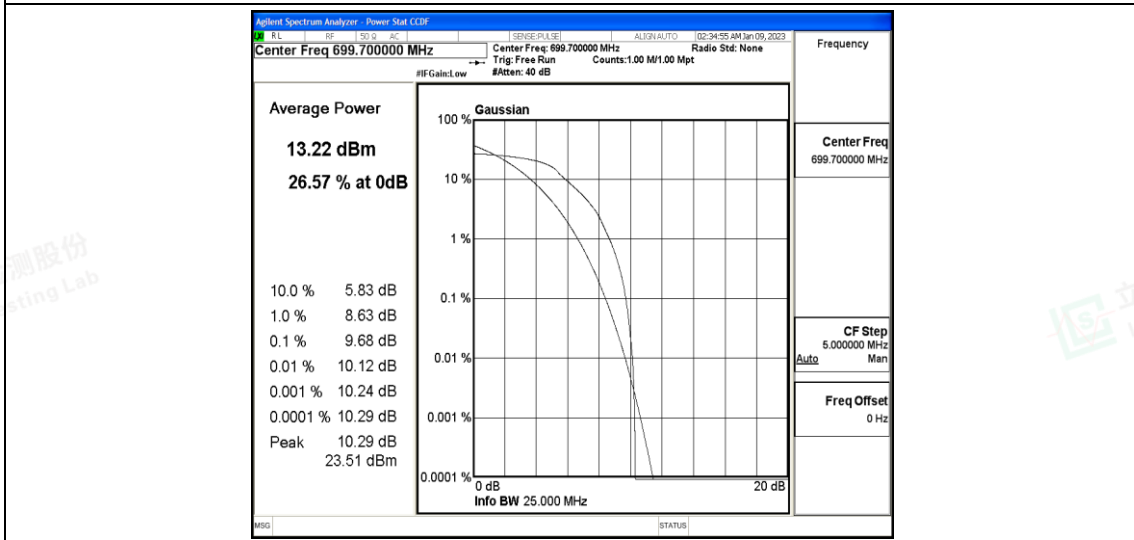


Band12-1.4MHz-QPSK-23095-6-0-Low-9.21-<=13-PASS

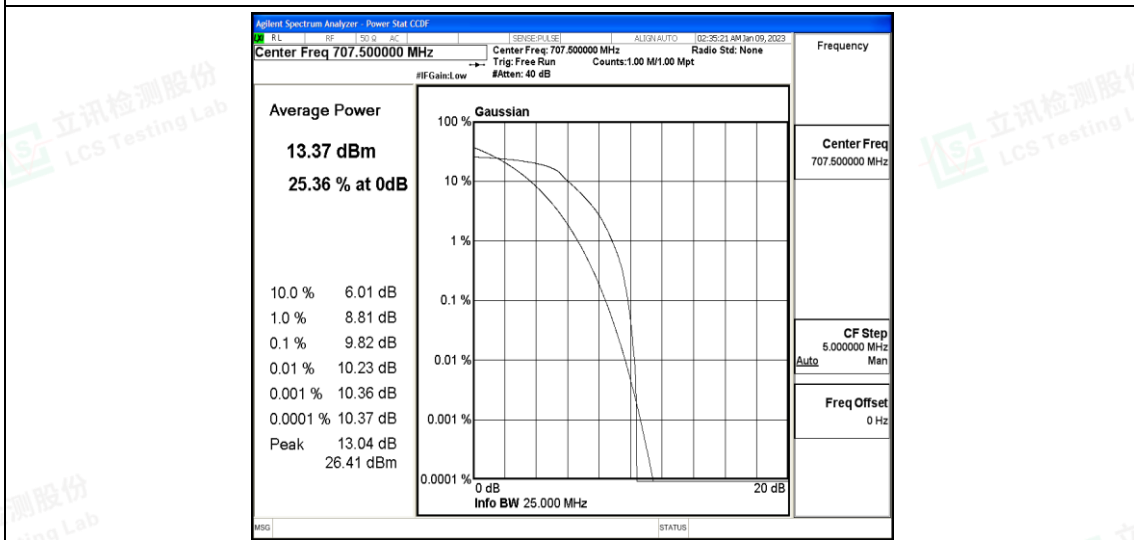




Band12-1.4MHz-QPSK-23173-6-0-High-10.17-<=13-PASS

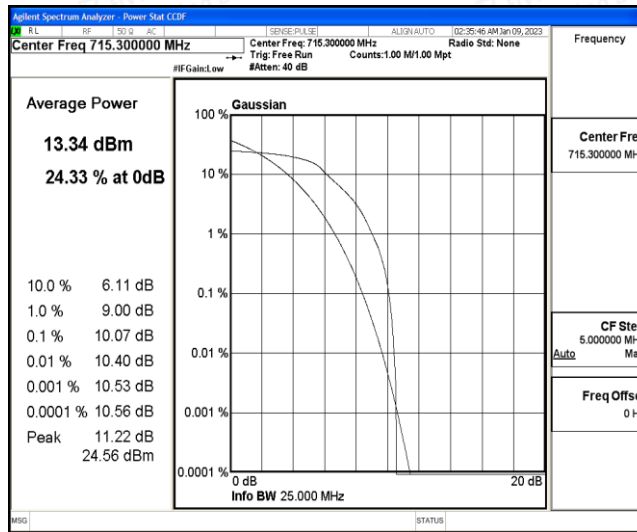


Band12-1.4MHz-16QAM-23017-6-0-Low-9.68-<=13-PASS

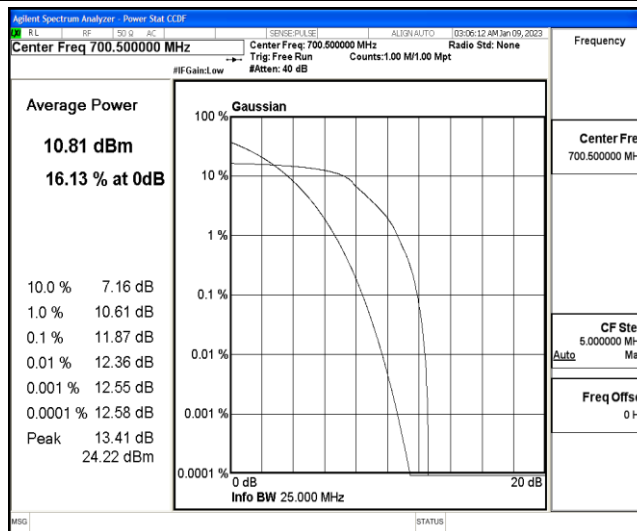




Band12-1.4MHz-16QAM-23095-6-0-Low-9.82-<=13-PASS

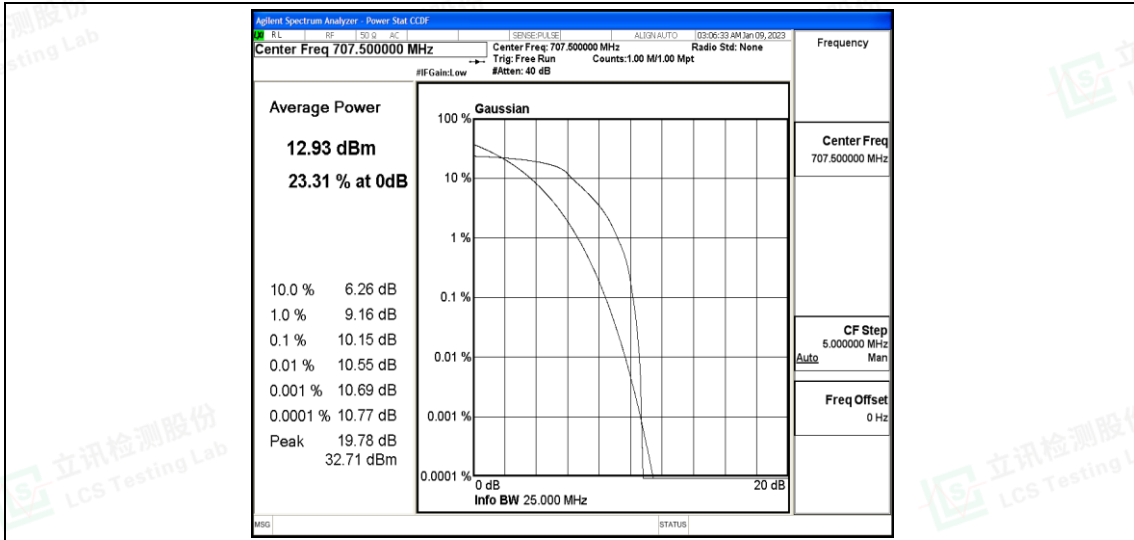


Band12-1.4MHz-16QAM-23173-6-0-High-10.07-<=13-PASS

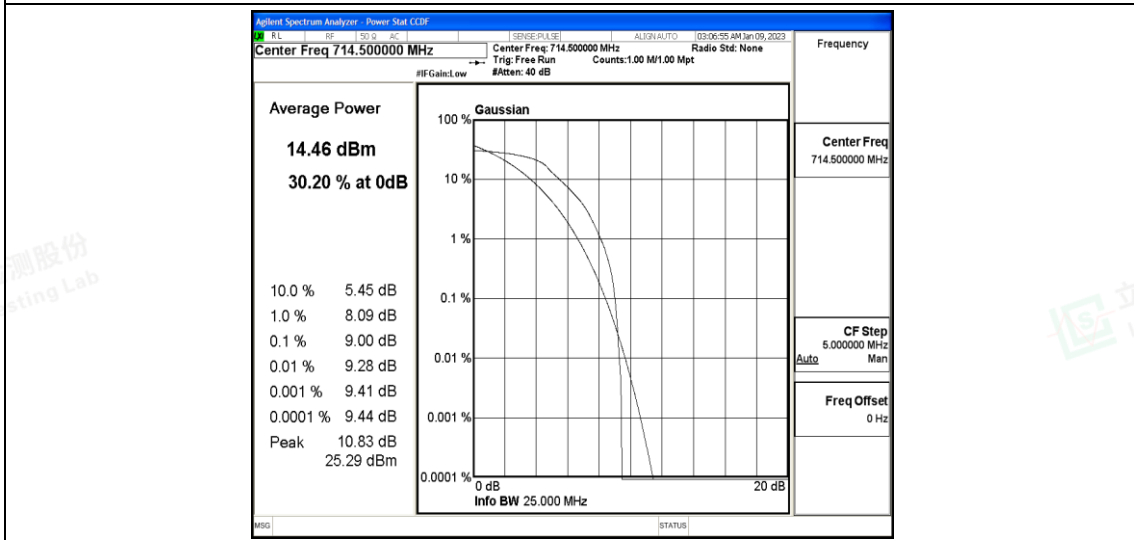


Band12-3MHz-QPSK-23025-6-0-Low-11.87-<=13-PASS

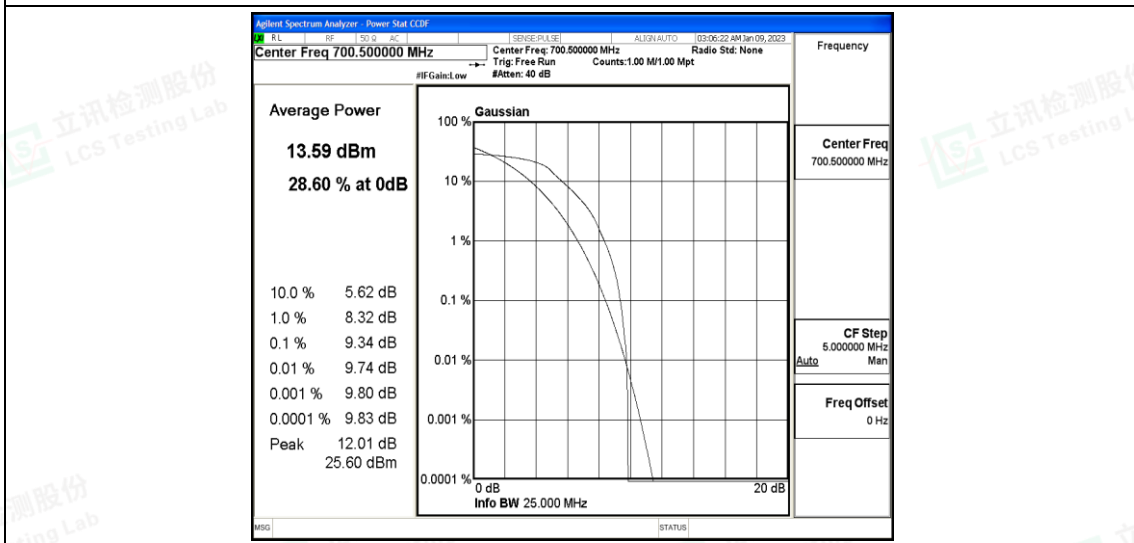




Band12-3MHz-QPSK-23095-6-0-Low-10.15-<=13-PASS

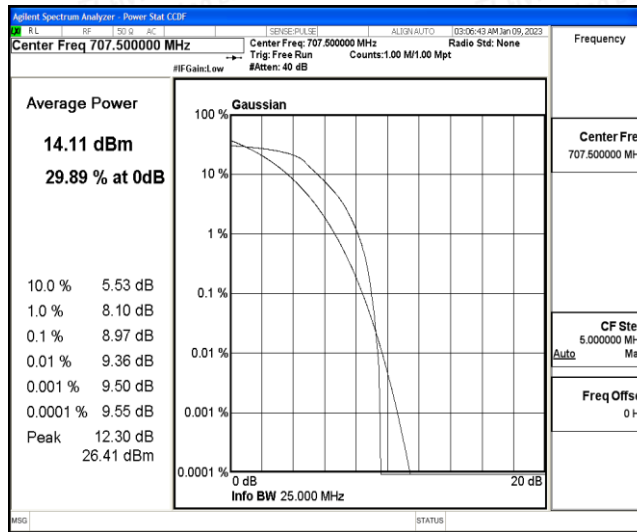


Band12-3MHz-QPSK-23165-6-0-High-9.00-<=13-PASS

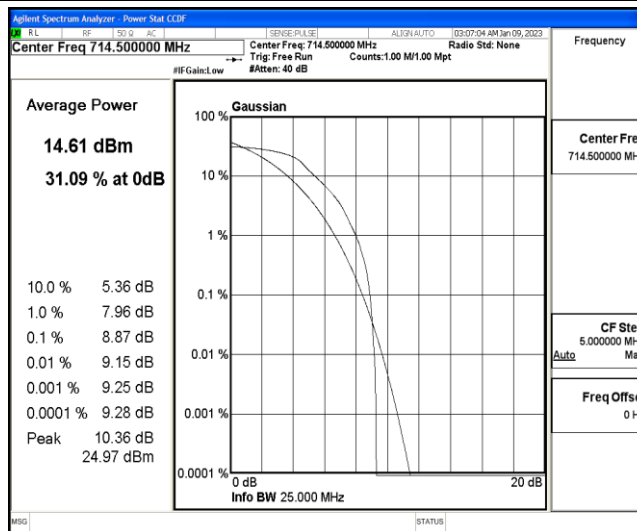




Band12-3MHz-16QAM-23025-6-0-Low-9.34-<=13-PASS

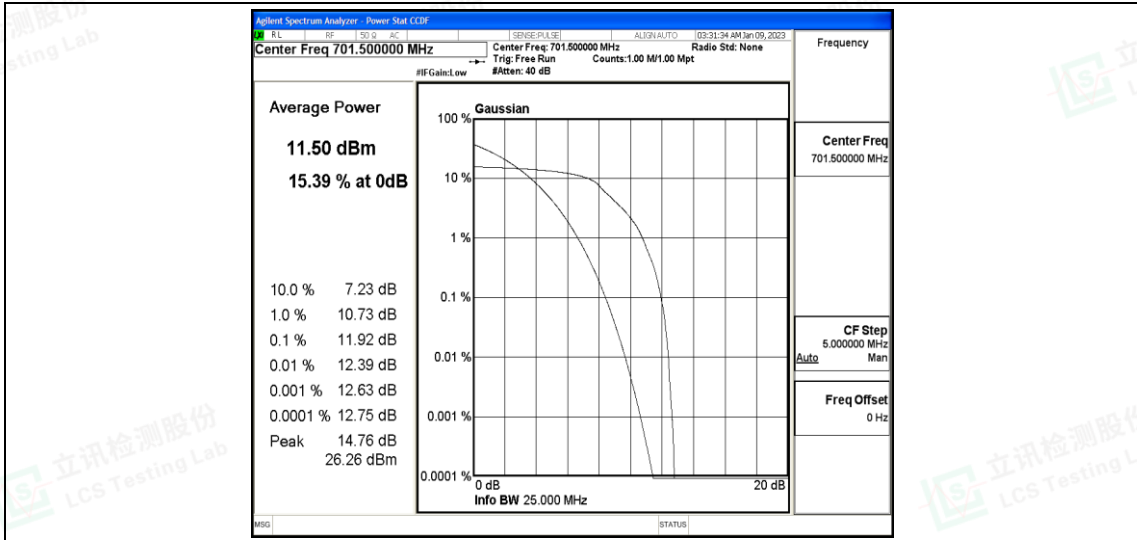


Band12-3MHz-16QAM-23095-6-0-Low-8.97-<=13-PASS

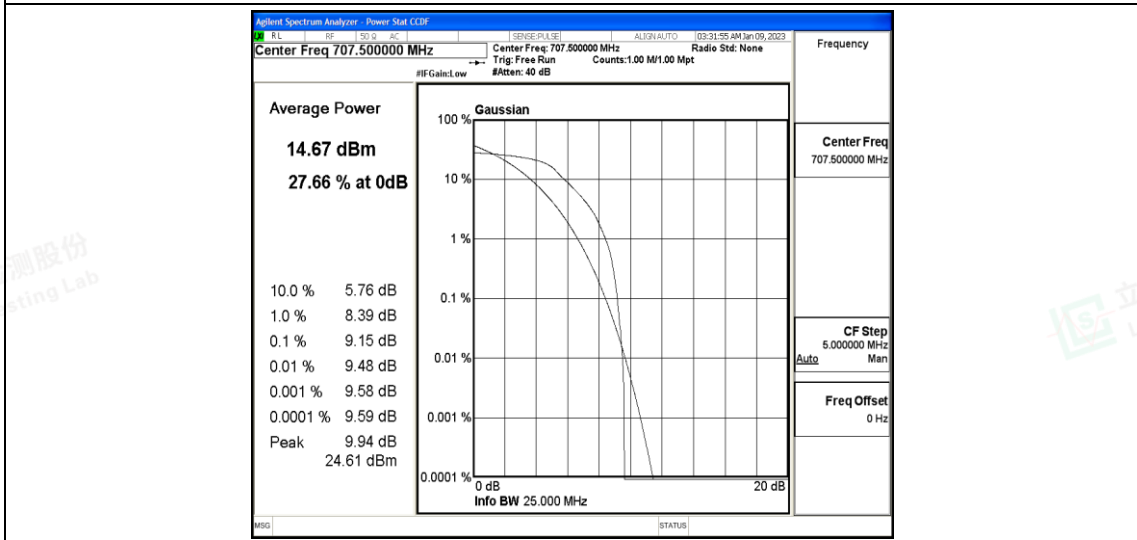


Band12-3MHz-16QAM-23165-6-0-High-8.87-<=13-PASS

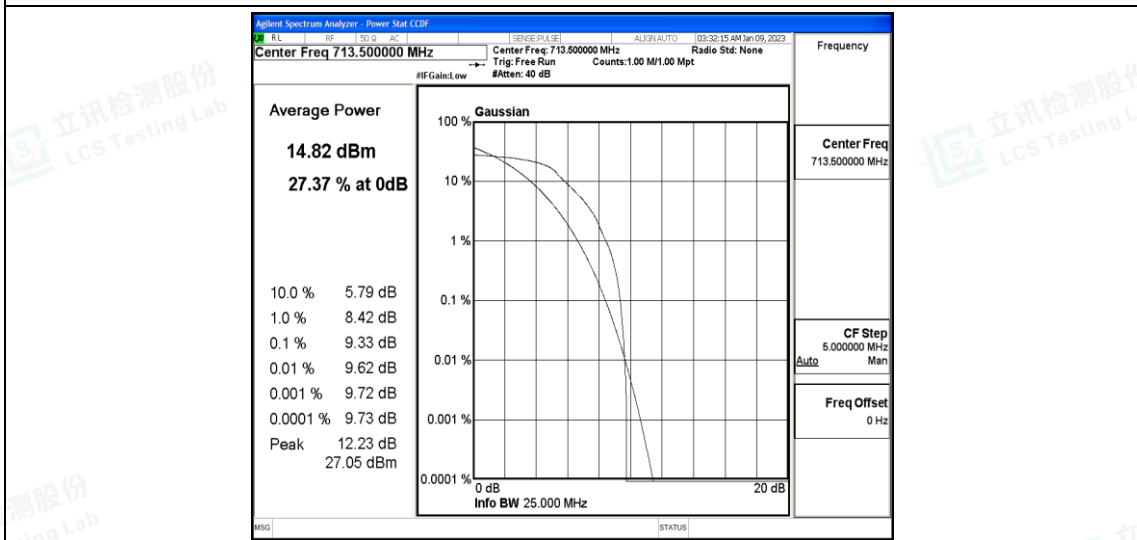




Band12-5MHz-QPSK-23035-6-0-Low-11.92-<=13-PASS

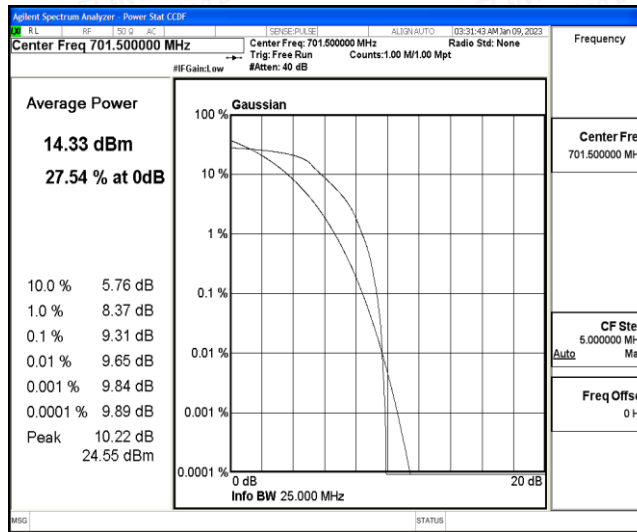


Band12-5MHz-QPSK-23095-6-0-Low-9.15-<=13-PASS

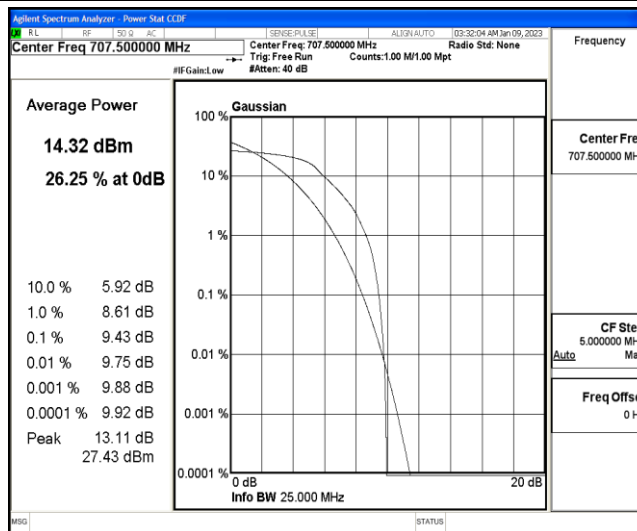




Band12-5MHz-QPSK-23155-6-0-High-9.33-<=13-PASS

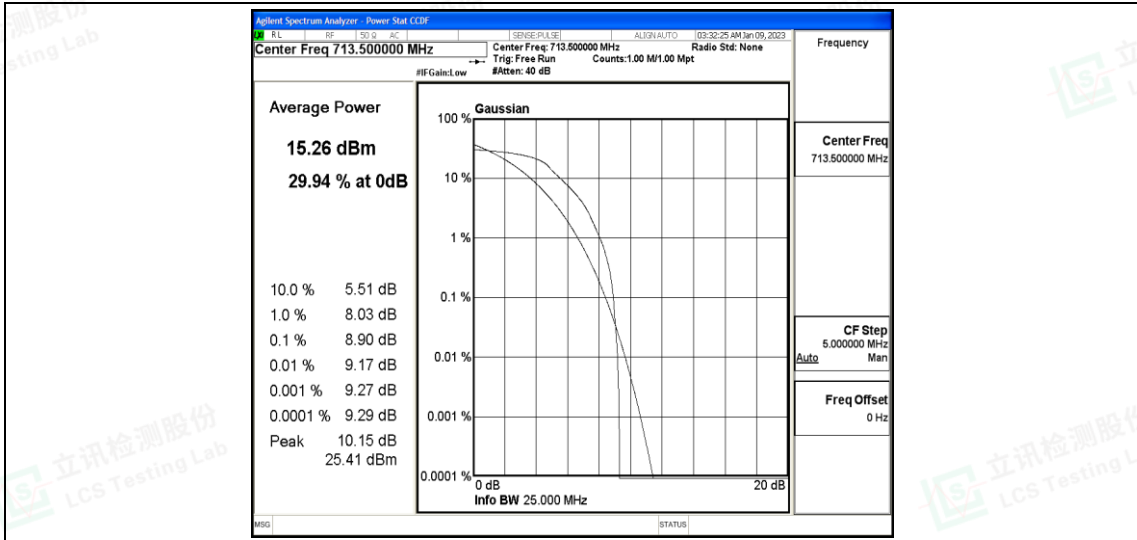


Band12-5MHz-16QAM-23035-6-0-Low-9.31-<=13-PASS

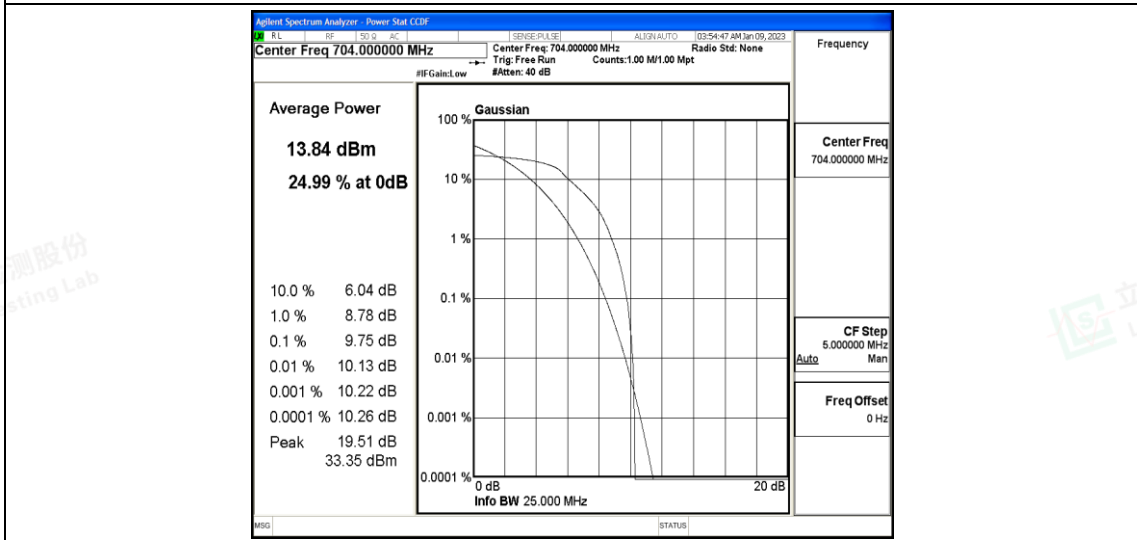


Band12-5MHz-16QAM-23095-6-0-Low-9.43-<=13-PASS

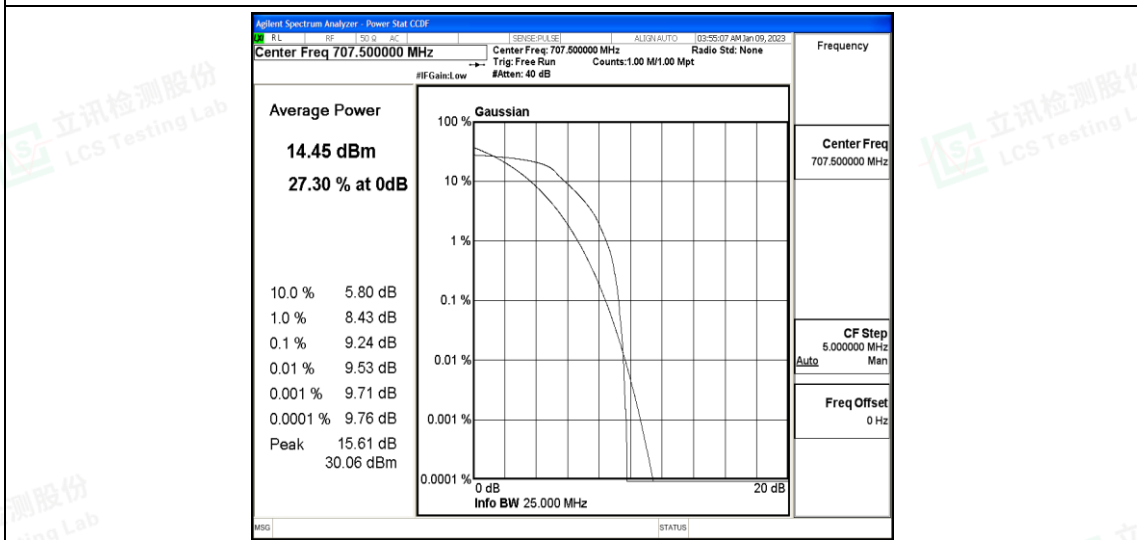




Band12-5MHz-16QAM-23155-6-0-High-8.90-<=13-PASS

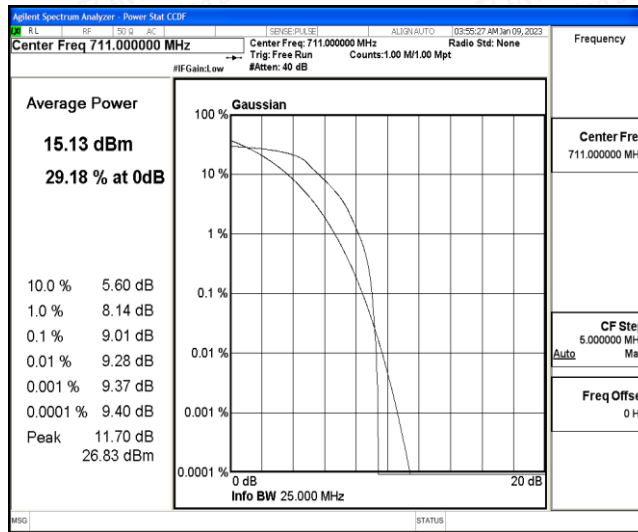


Band12-10MHz-QPSK-23060-6-0-Low-9.75-<=13-PASS

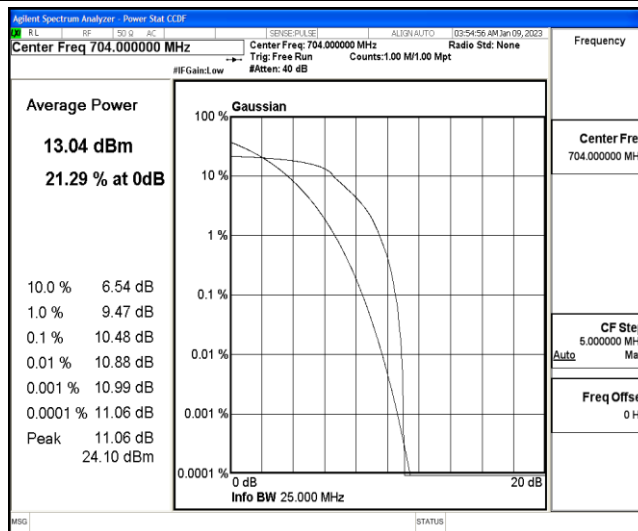




Band12-10MHz-QPSK-23095-6-0-Low-9.24-<=13-PASS

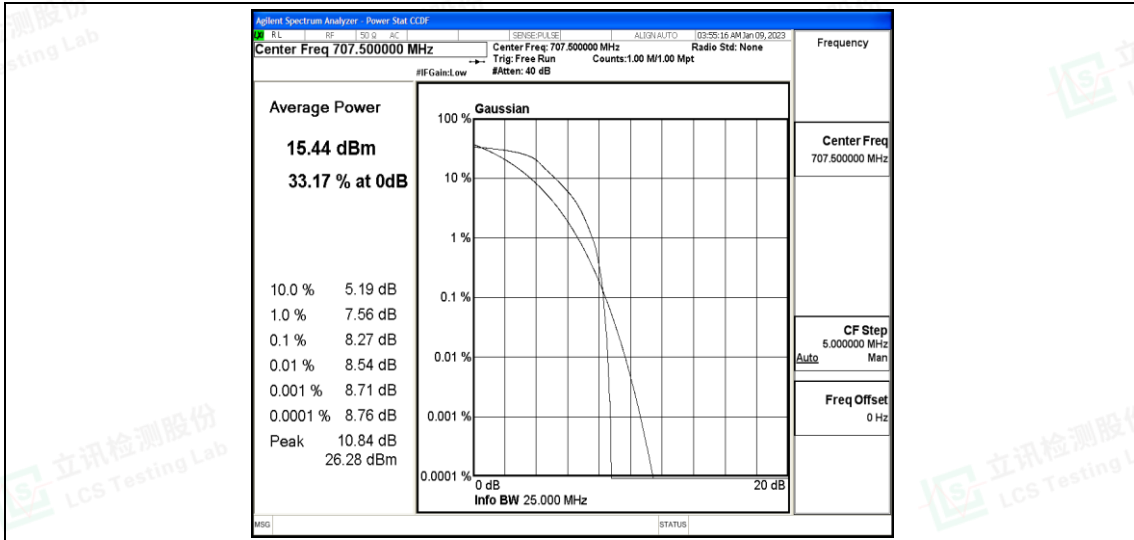


Band12-10MHz-QPSK-23130-6-0-High-9.01-<=13-PASS

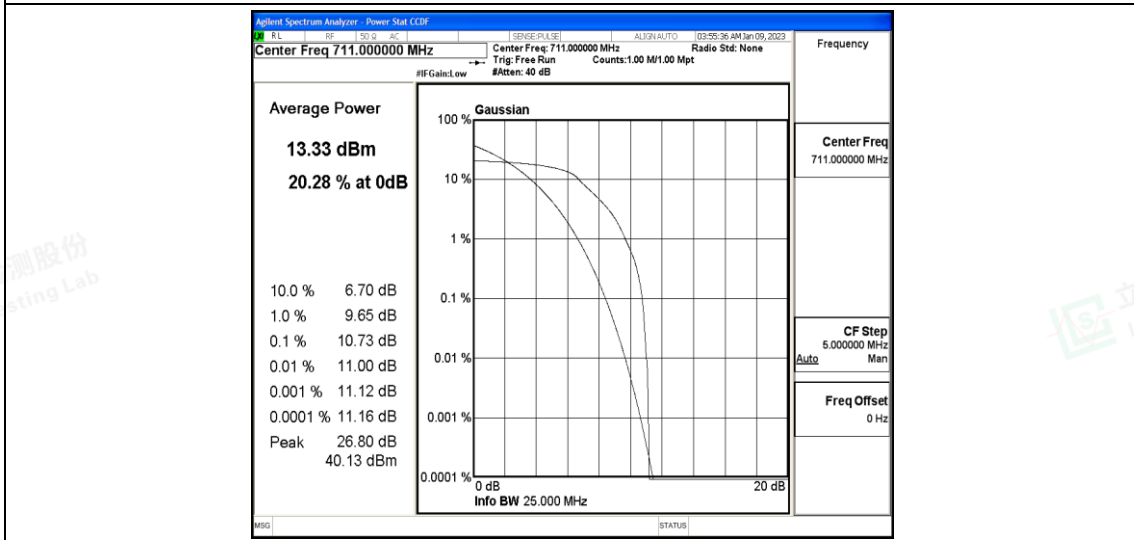


Band12-10MHz-16QAM-23060-6-0-Low-10.48-<=13-PASS





Band12-10MHz-16QAM-23095-6-0-Low-8.27-<=13-PASS



Band12-10MHz-16QAM-23130-6-0-High-10.73-<=13-PASS





C.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	1.0880	1.276	PASS
Band12	1.4MHz	23095	QPSK	6	0	Low	1.0860	1.270	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	1.0986	1.288	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	1.0891	1.277	PASS
Band12	1.4MHz	23095	16QAM	6	0	Low	1.0922	1.271	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	1.0994	1.317	PASS
Band12	3MHz	23025	QPSK	6	0	Low	1.1150	1.357	PASS
Band12	3MHz	23095	QPSK	6	0	Low	1.1073	1.295	PASS
Band12	3MHz	23165	QPSK	6	0	High	1.1281	1.355	PASS
Band12	3MHz	23025	16QAM	6	0	Low	1.1125	1.352	PASS
Band12	3MHz	23095	16QAM	6	0	Low	1.1173	1.331	PASS
Band12	3MHz	23165	16QAM	6	0	High	1.1190	1.340	PASS
Band12	5MHz	23035	QPSK	6	0	Low	1.1819	1.414	PASS
Band12	5MHz	23095	QPSK	6	0	Low	1.1718	1.592	PASS
Band12	5MHz	23155	QPSK	6	0	High	1.1824	1.414	PASS
Band12	5MHz	23035	16QAM	6	0	Low	1.1788	1.487	PASS
Band12	5MHz	23095	16QAM	6	0	Low	1.1782	1.525	PASS
Band12	5MHz	23155	16QAM	6	0	High	1.1760	1.452	PASS
Band12	10MHz	23060	QPSK	6	0	Low	1.3382	2.197	PASS
Band12	10MHz	23095	QPSK	6	0	Low	1.3466	1.892	PASS
Band12	10MHz	23130	QPSK	6	0	High	1.3404	1.679	PASS
Band12	10MHz	23060	16QAM	6	0	Low	1.3401	2.205	PASS
Band12	10MHz	23095	16QAM	6	0	Low	1.3552	2.060	PASS
Band12	10MHz	23130	16QAM	6	0	High	1.3341	1.676	PASS



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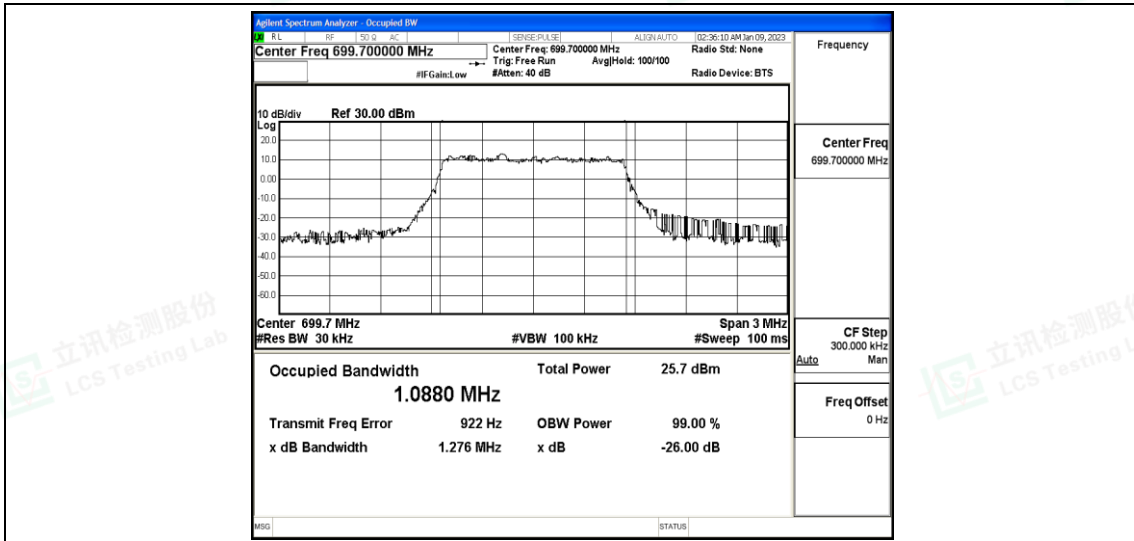
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

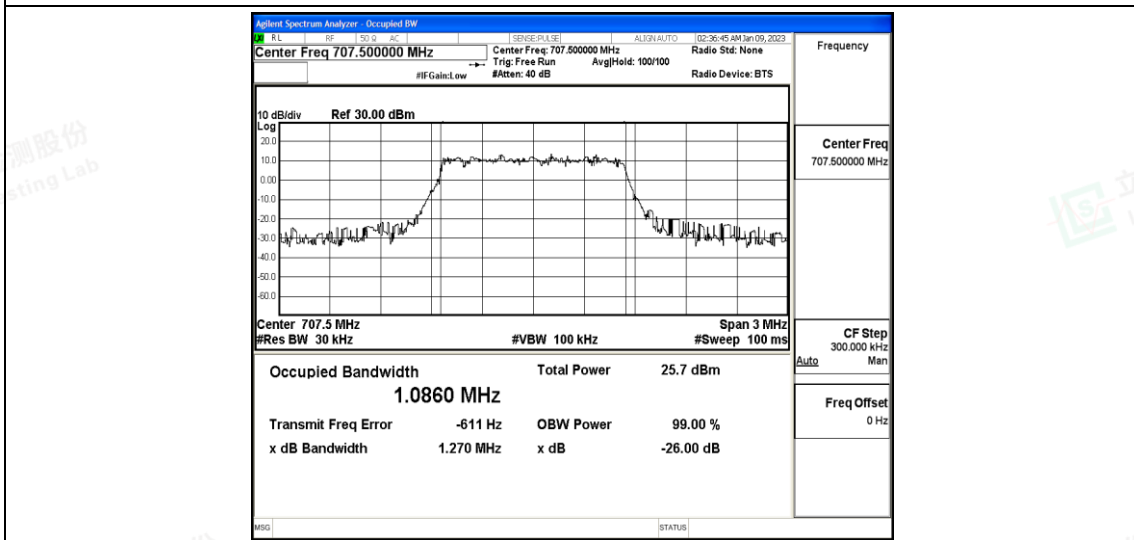
Scan code to check authenticity



Test Graphs

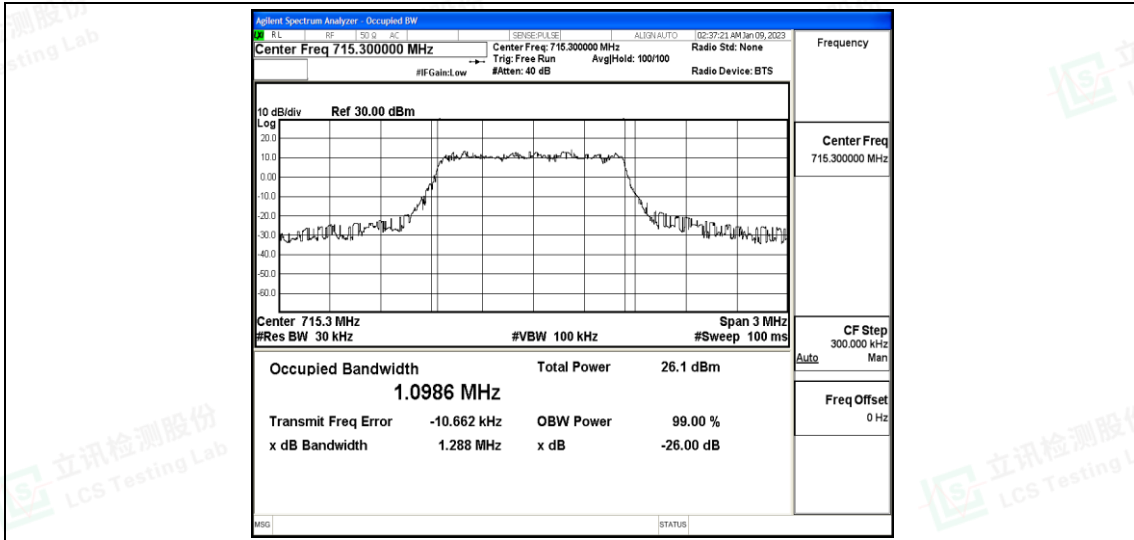


Band12-1.4MHz-QPSK-23017-6-0-Low-1.0880-1.276-PASS

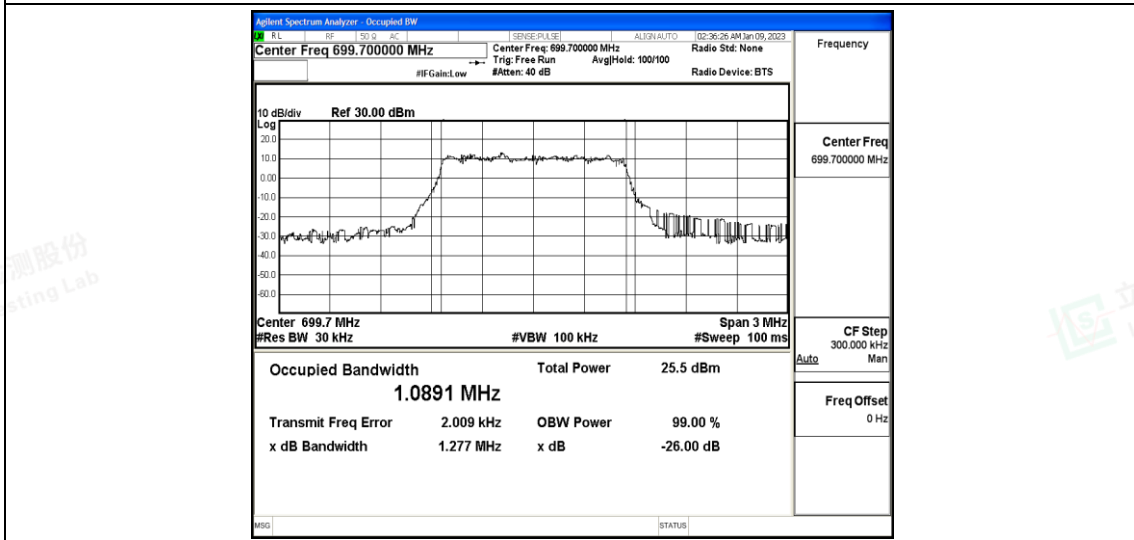


Band12-1.4MHz-QPSK-23095-6-0-Low-1.0860-1.270-PASS

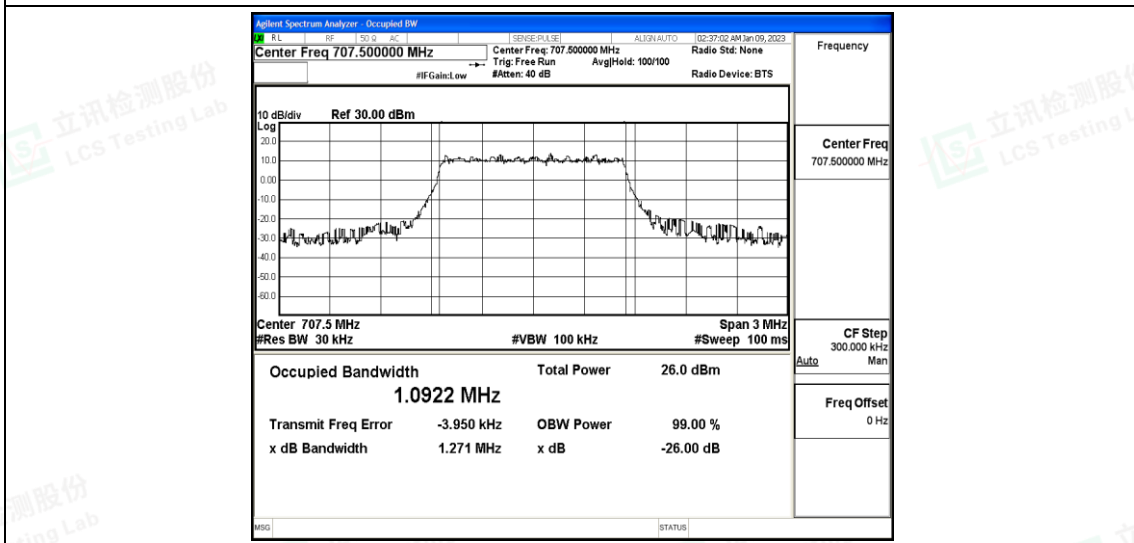




Band12-1.4MHz-QPSK-23173-6-0-High-1.0986-1.288-PASS

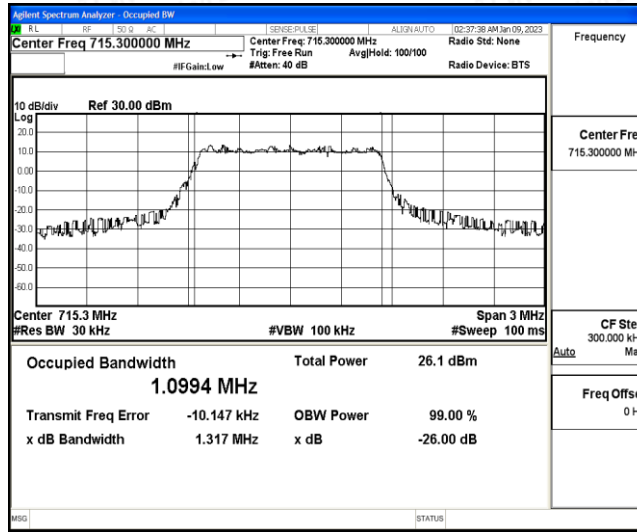


Band12-1.4MHz-16QAM-23017-6-0-Low-1.0891-1.277-PASS

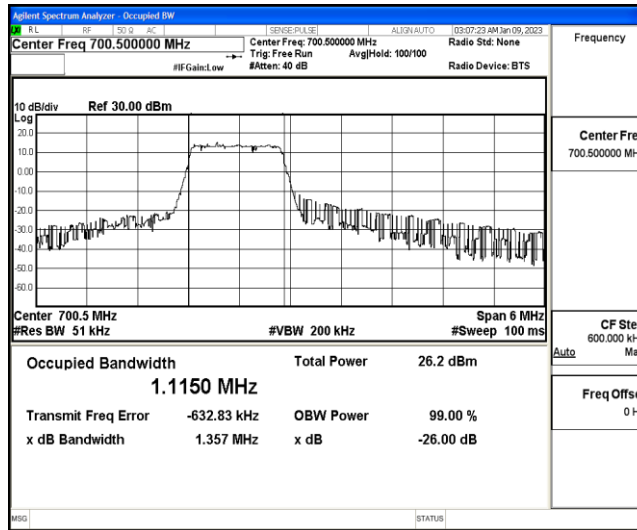




Band12-1.4MHz-16QAM-23095-6-0-Low-1.0922-1.271-PASS

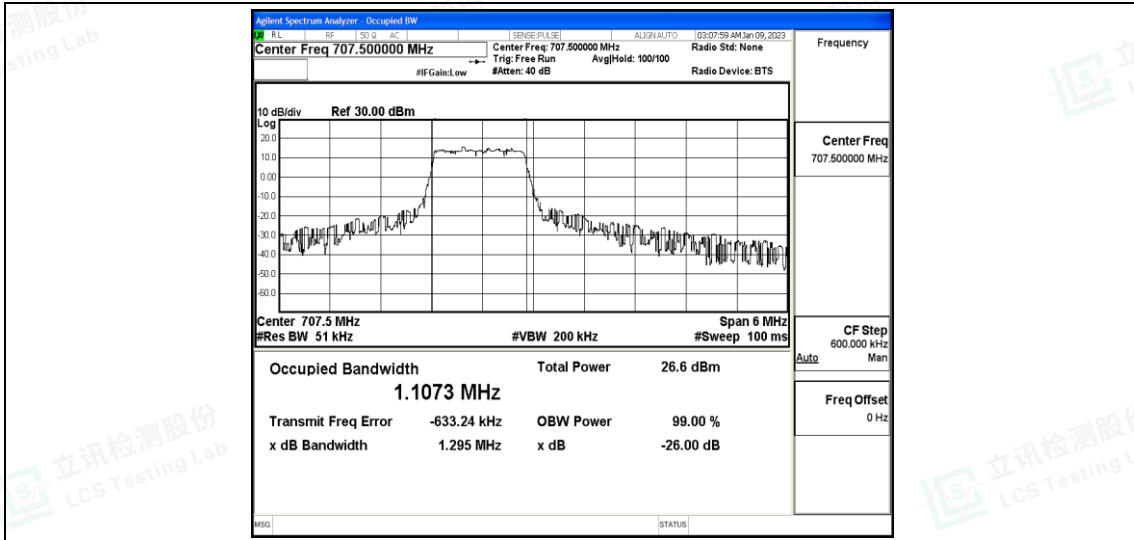


Band12-1.4MHz-16QAM-23173-6-0-High-1.0994-1.317-PASS

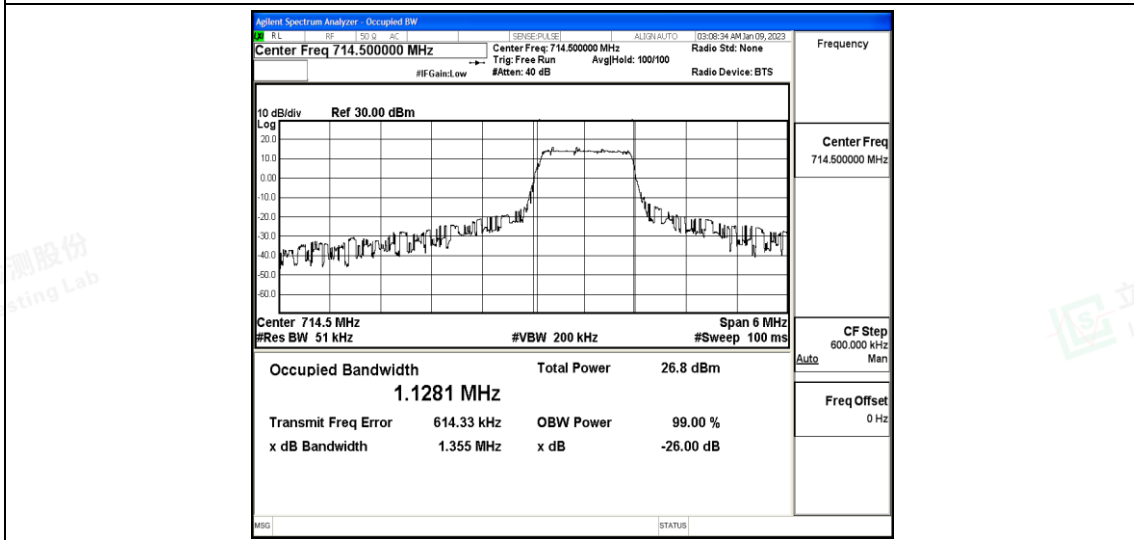


Band12-3MHz-QPSK-23025-6-0-Low-1.1150-1.357-PASS

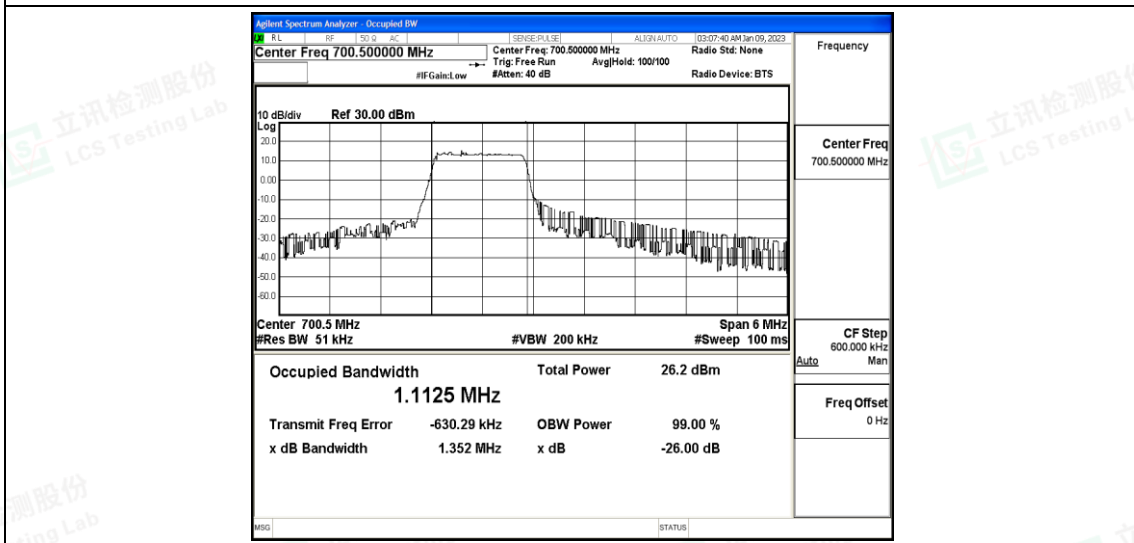




Band12-3MHz-QPSK-23095-6-0-Low-1.1073-1.295-PASS

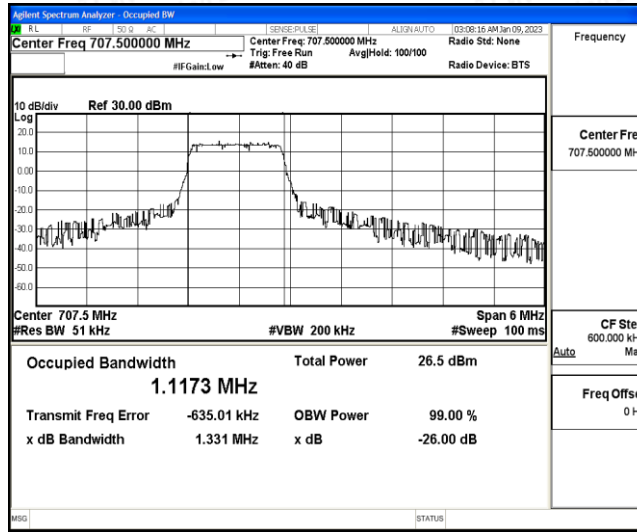


Band12-3MHz-QPSK-23165-6-0-High-1.1281-1.355-PASS

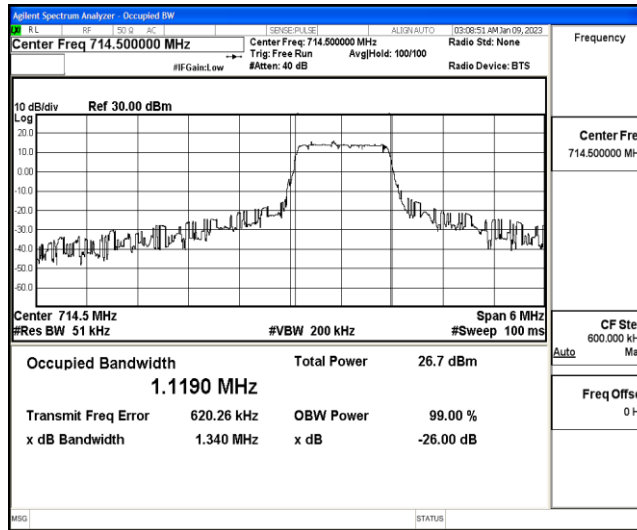




Band12-3MHz-16QAM-23025-6-0-Low-1.1125-1.352-PASS

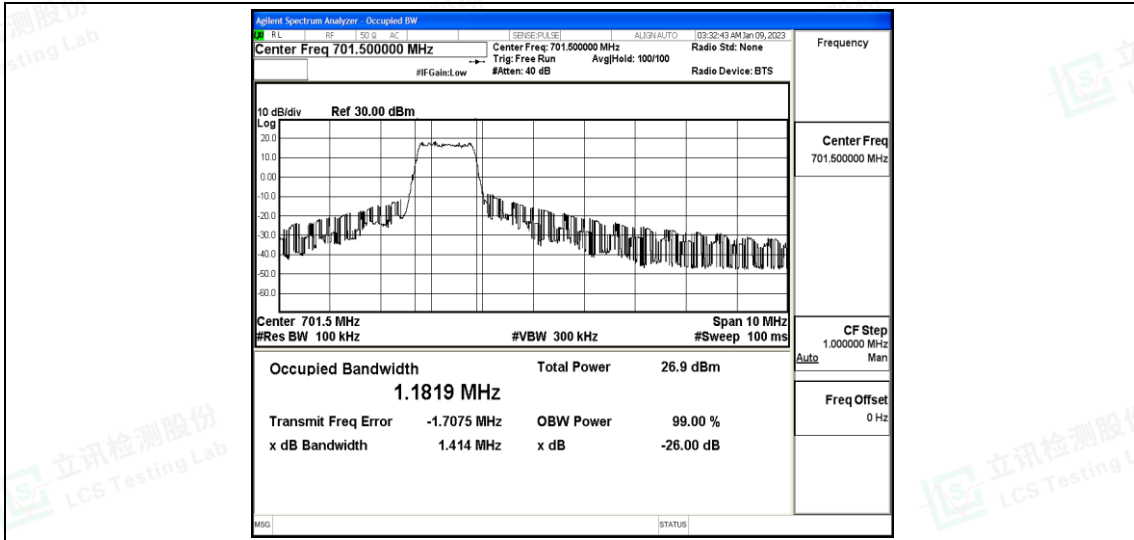


Band12-3MHz-16QAM-23095-6-0-Low-1.1173-1.331-PASS

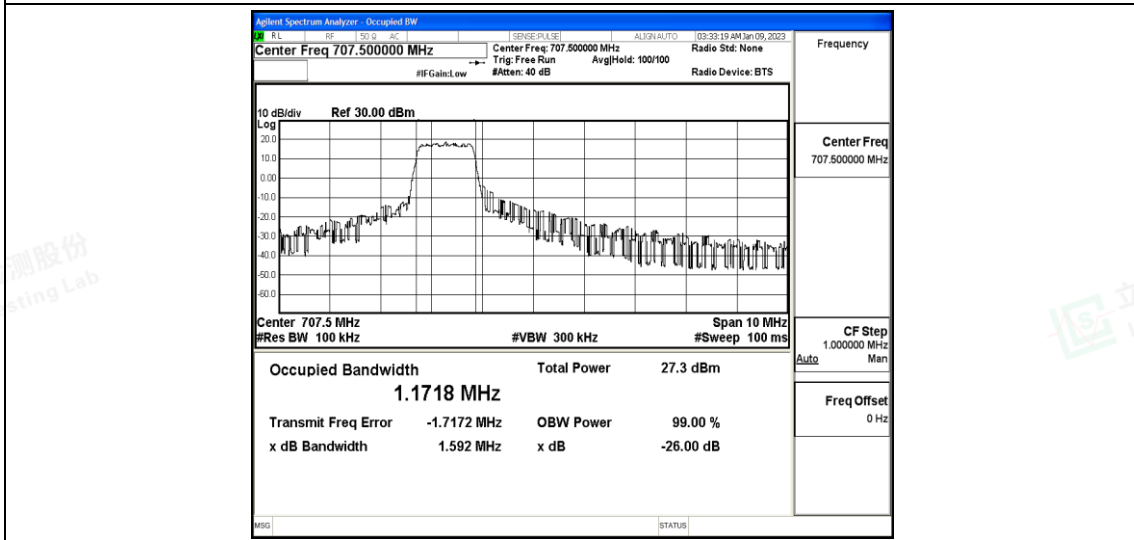


Band12-3MHz-16QAM-23165-6-0-High-1.1190-1.340-PASS

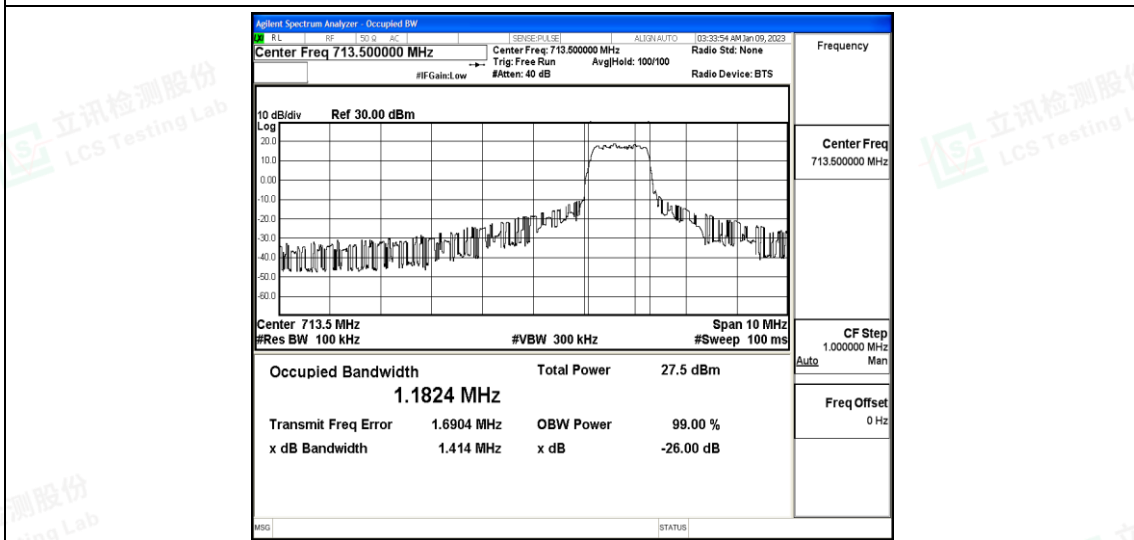




Band12-5MHz-QPSK-23035-6-0-Low-1.1819-1.414-PASS

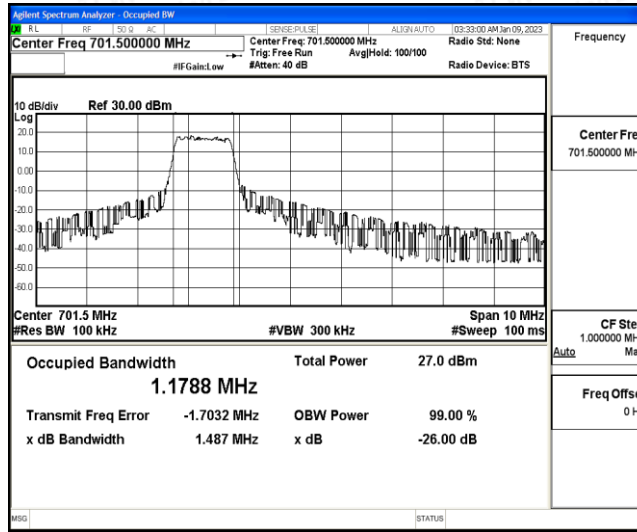


Band12-5MHz-QPSK-23095-6-0-Low-1.1718-1.592-PASS

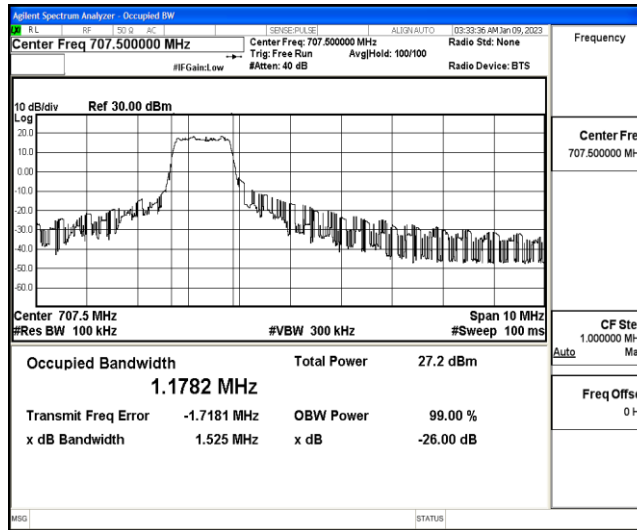




Band12-5MHz-QPSK-23155-6-0-High-1.1824-1.414-PASS

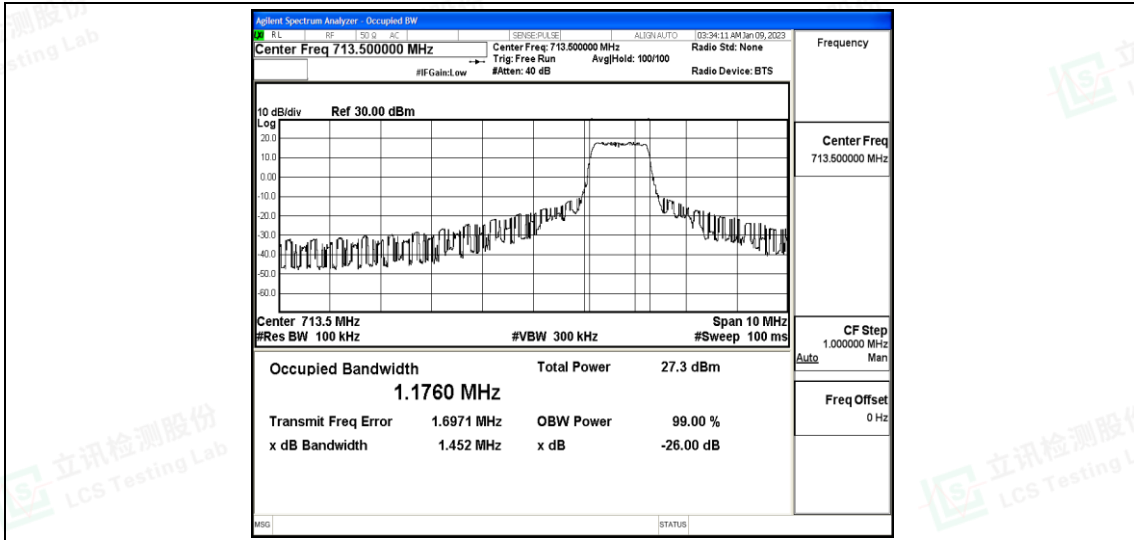


Band12-5MHz-16QAM-23035-6-0-Low-1.1788-1.487-PASS

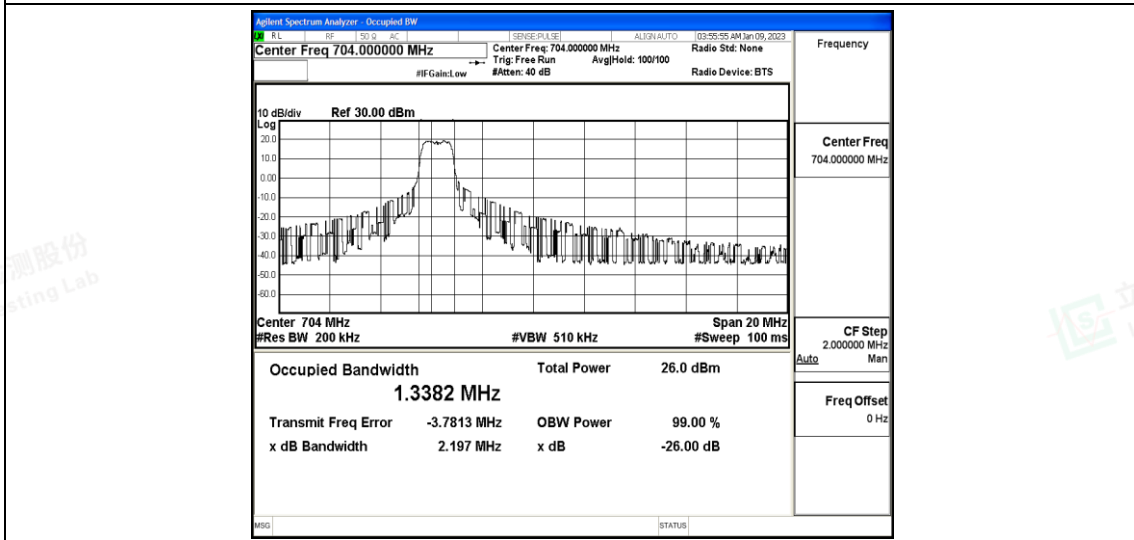


Band12-5MHz-16QAM-23095-6-0-Low-1.1782-1.525-PASS

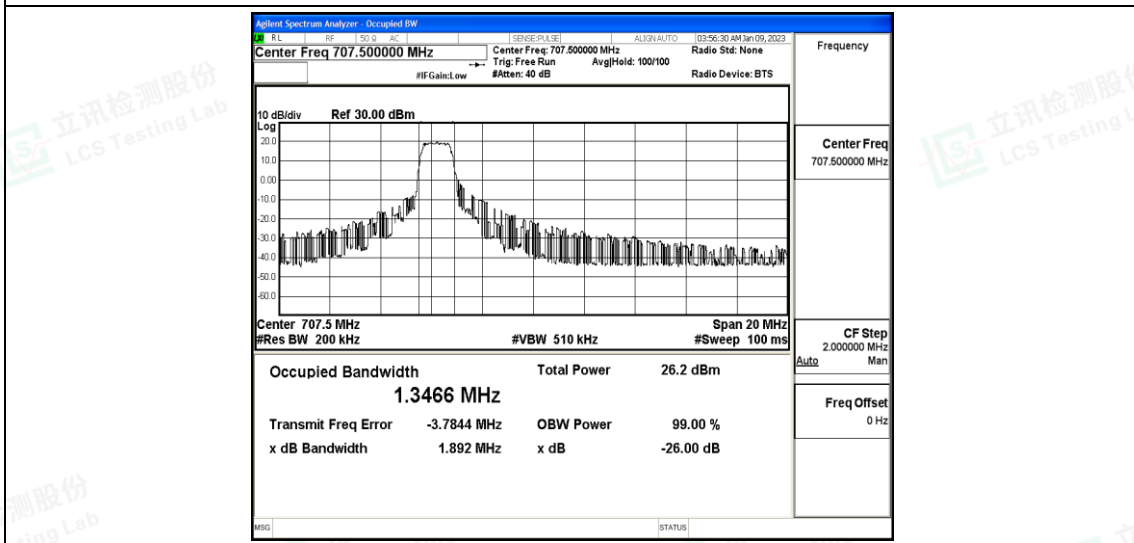




Band12-5MHz-16QAM-23155-6-0-High-1.1760-1.452-PASS

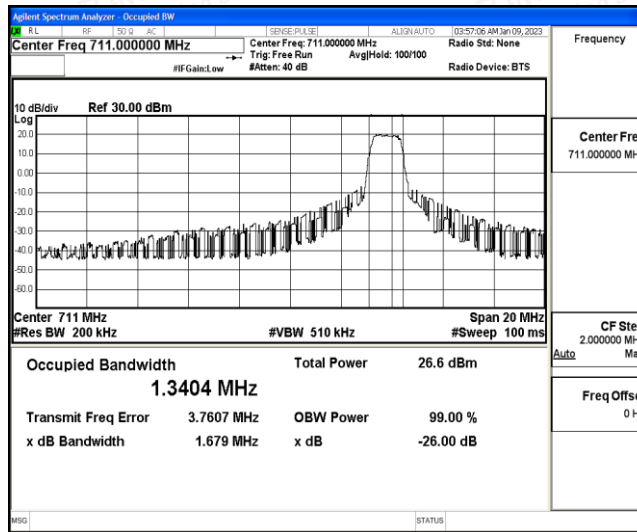


Band12-10MHz-QPSK-23060-6-0-Low-1.3382-2.197-PASS

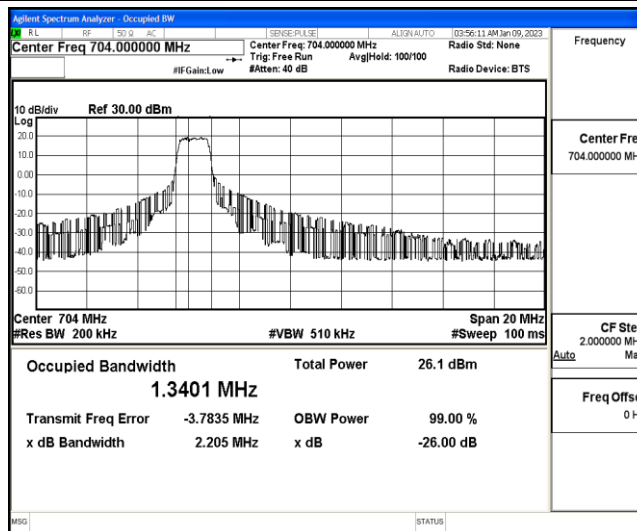




Band12-10MHz-QPSK-23095-6-0-Low-1.3466-1.892-PASS

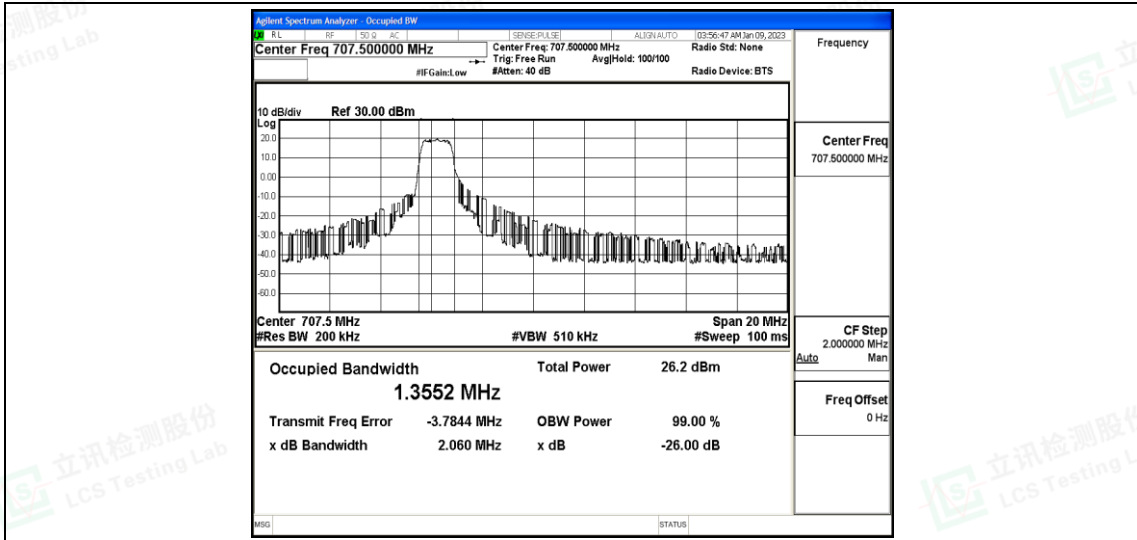


Band12-10MHz-QPSK-23130-6-0-High-1.3404-1.679-PASS

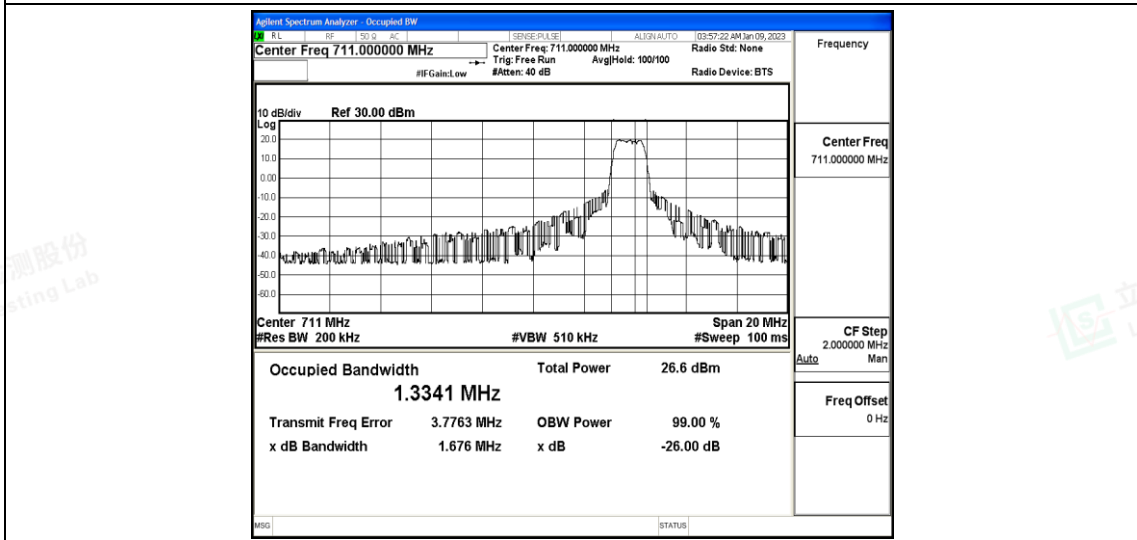


Band12-10MHz-16QAM-23060-6-0-Low-1.3401-2.205-PASS





Band12-10MHz-16QAM-23095-6-0-Low-1.3552-2.060-PASS



Band12-10MHz-16QAM-23130-6-0-High-1.3341-1.676-PASS





C.4 Band Edge

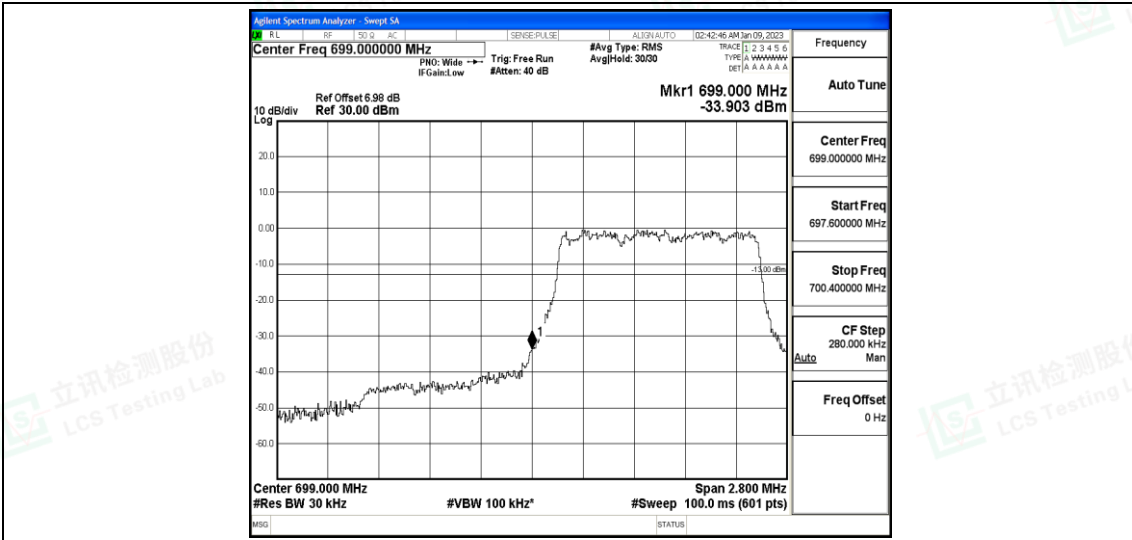
Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band12	1.4MHz	23017	QPSK	6	0	Low	-33.90	PASS
Band12	1.4MHz	23173	QPSK	6	0	High	-32.97	PASS
Band12	1.4MHz	23017	16QAM	6	0	Low	-34.74	PASS
Band12	1.4MHz	23173	16QAM	6	0	High	-33.55	PASS
Band12	3MHz	23025	QPSK	6	0	Low	-37.49	PASS
Band12	3MHz	23165	QPSK	6	0	High	-34.23	PASS
Band12	3MHz	23025	16QAM	6	0	Low	-38.98	PASS
Band12	3MHz	23165	16QAM	6	0	High	-33.98	PASS
Band12	5MHz	23035	QPSK	6	0	Low	-34.23	PASS
Band12	5MHz	23155	QPSK	6	0	High	-30.22	PASS
Band12	5MHz	23035	16QAM	6	0	Low	-32.11	PASS
Band12	5MHz	23155	16QAM	6	0	High	-29.91	PASS
Band12	10MHz	23060	QPSK	6	0	Low	-34.60	PASS
Band12	10MHz	23130	QPSK	6	0	High	-30.71	PASS
Band12	10MHz	23060	16QAM	6	0	Low	-33.00	PASS
Band12	10MHz	23130	16QAM	6	0	High	-30.95	PASS

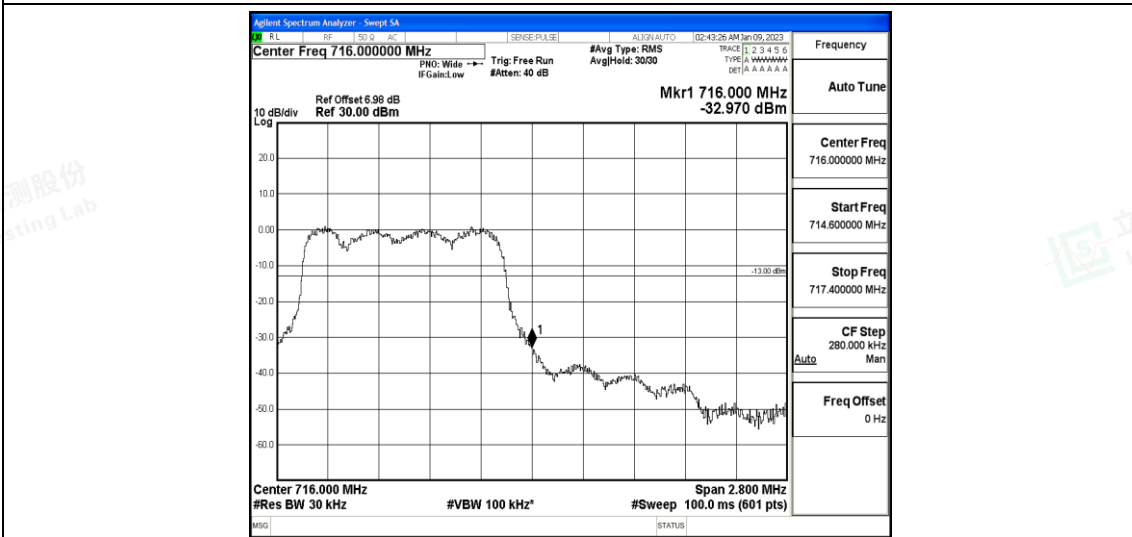




Test Graphs

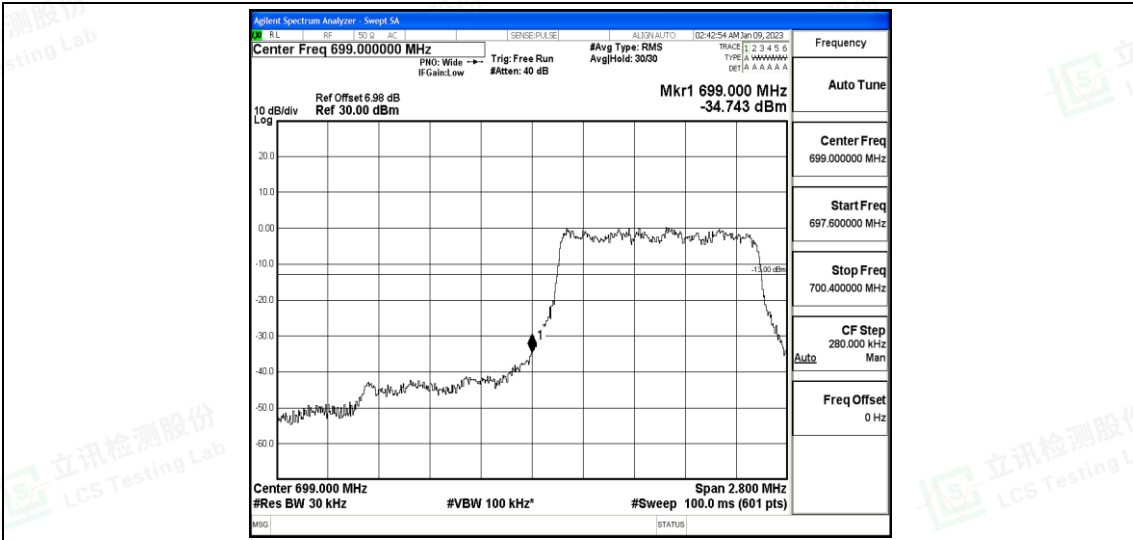


Band12-1.4MHz-QPSK-23017-6-0-Low--33.90-PASS

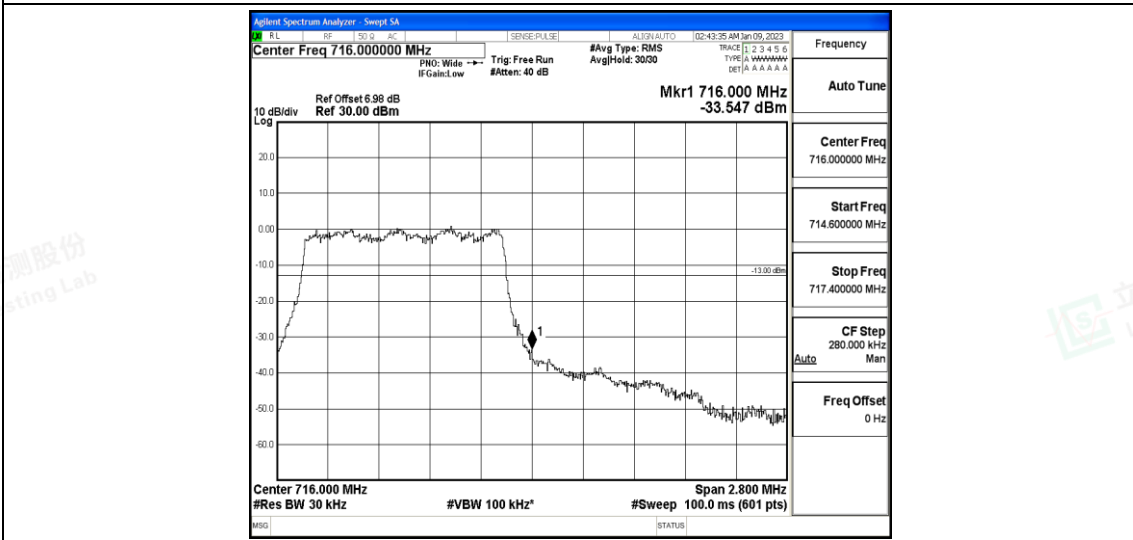


Band12-1.4MHz-QPSK-23173-6-0-High--32.97-PASS

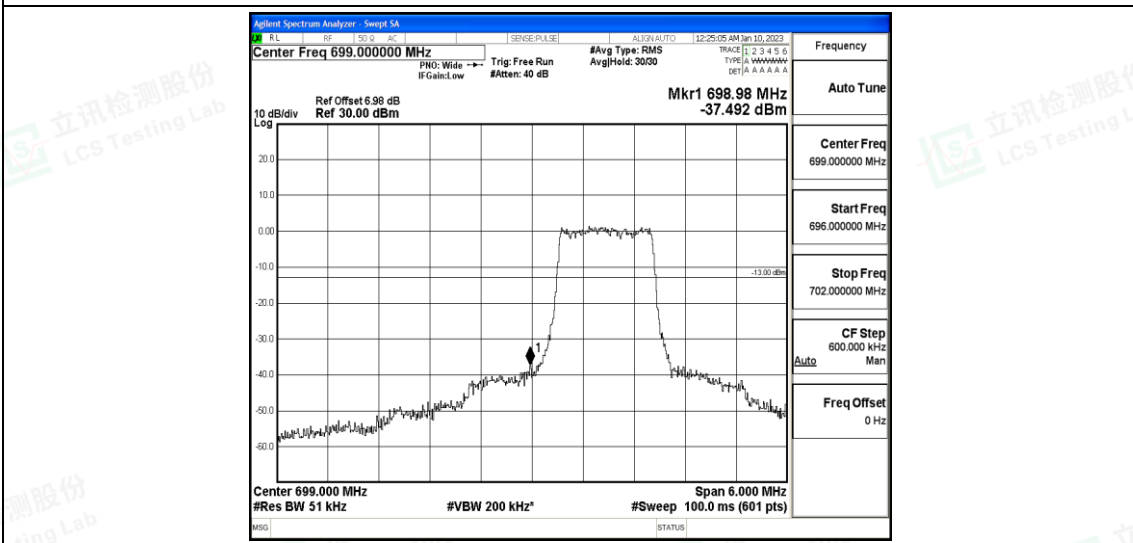




Band12-1.4MHz-16QAM-23017-6-0-Low--34.74-PASS

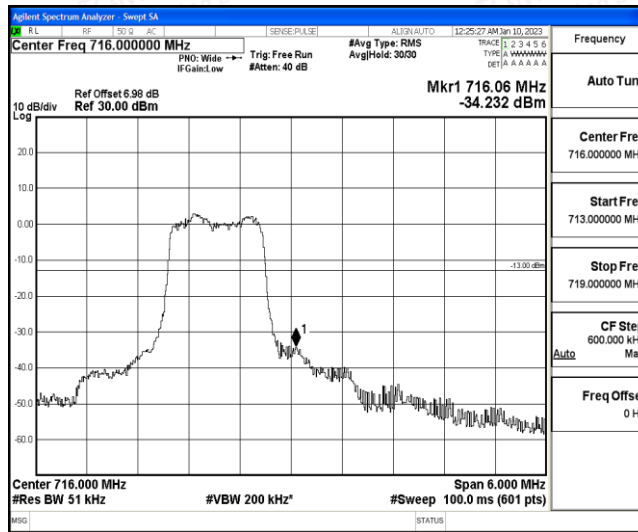


Band12-1.4MHz-16QAM-23173-6-0-High--33.55-PASS

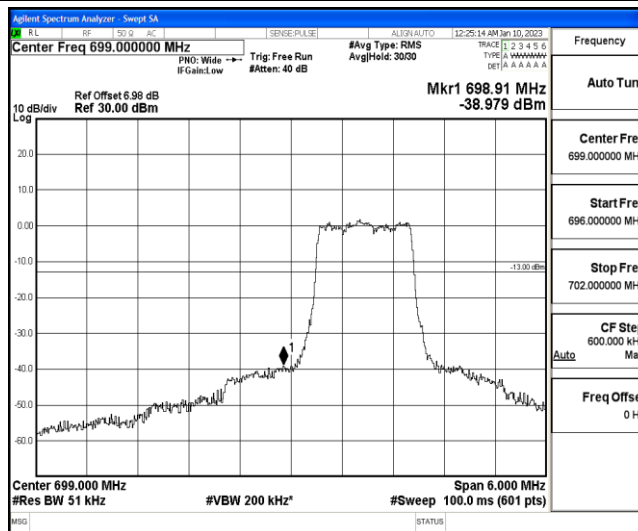




Band12-3MHz-QPSK-23025-6-0-Low--37.49-PASS

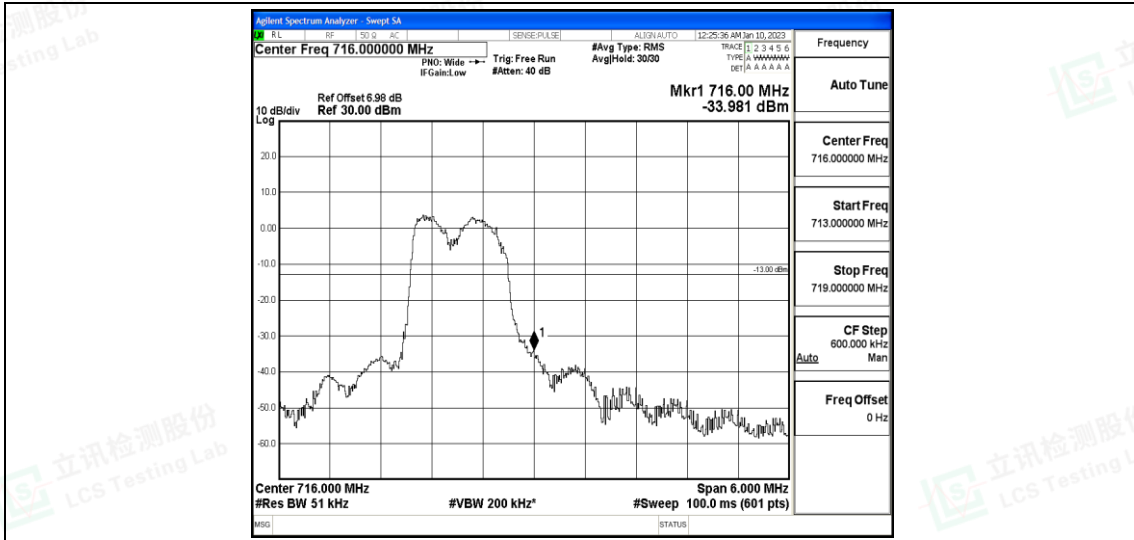


Band12-3MHz-QPSK-23165-6-0-High--34.23-PASS

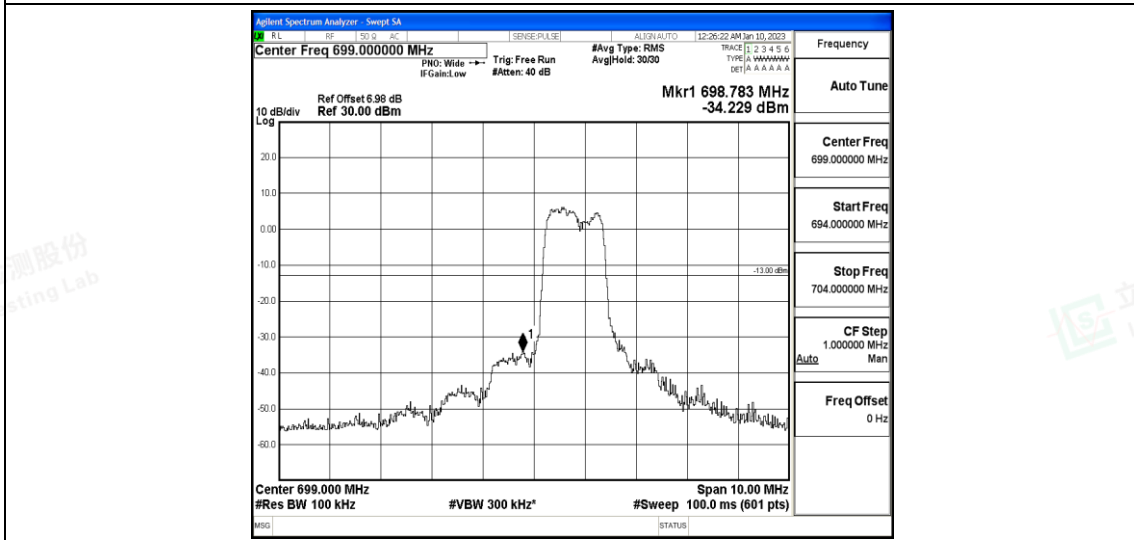


Band12-3MHz-16QAM-23025-6-0-Low--38.98-PASS

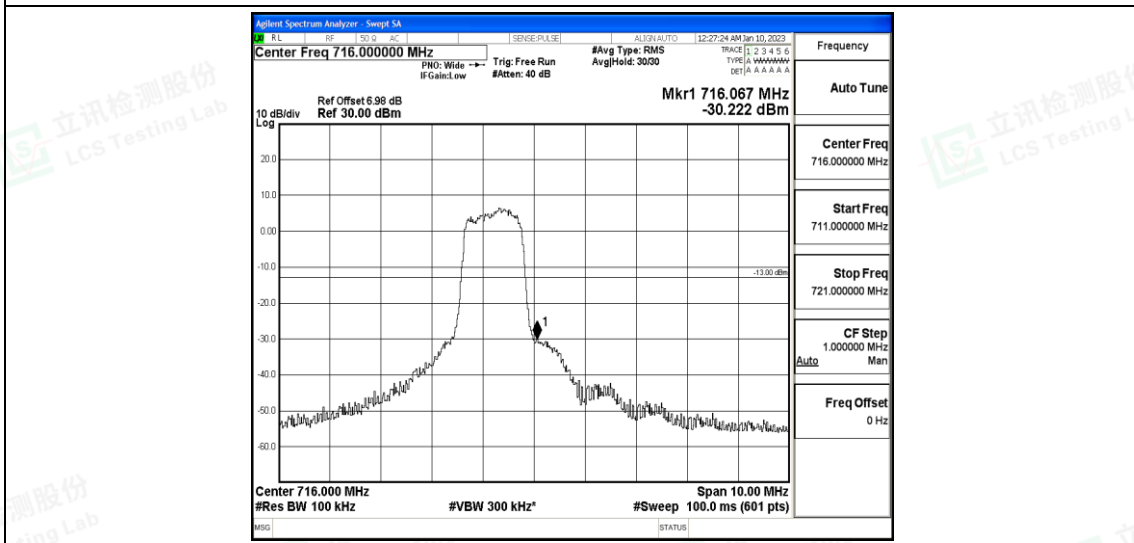




Band12-3MHz-16QAM-23165-6-0-High--33.98-PASS

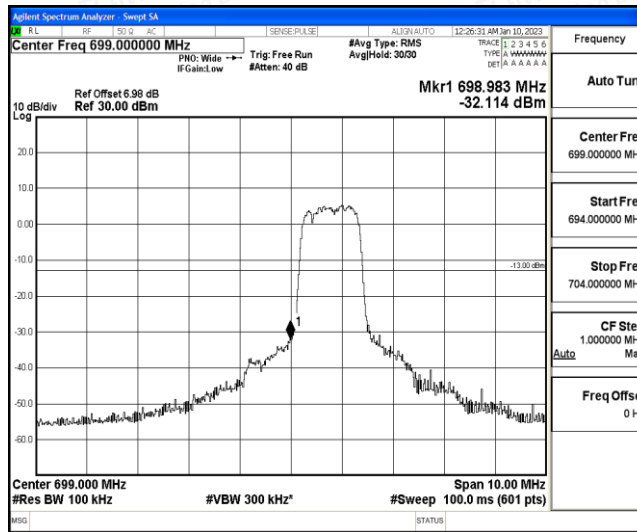


Band12-5MHz-QPSK-23035-6-0-Low--34.23-PASS

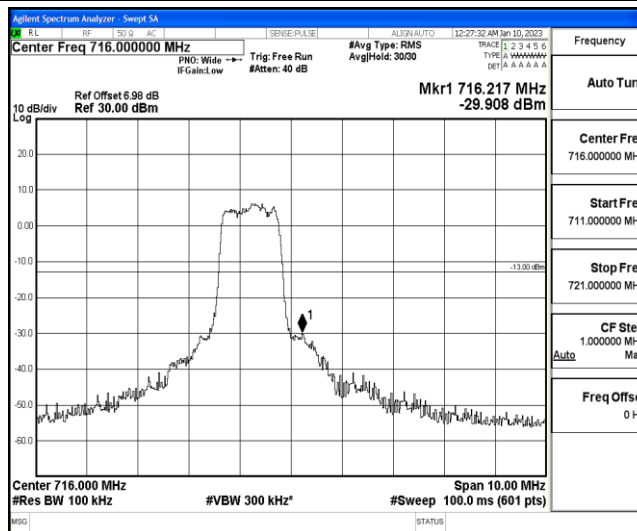




Band12-5MHz-QPSK-23155-6-0-High--30.22-PASS

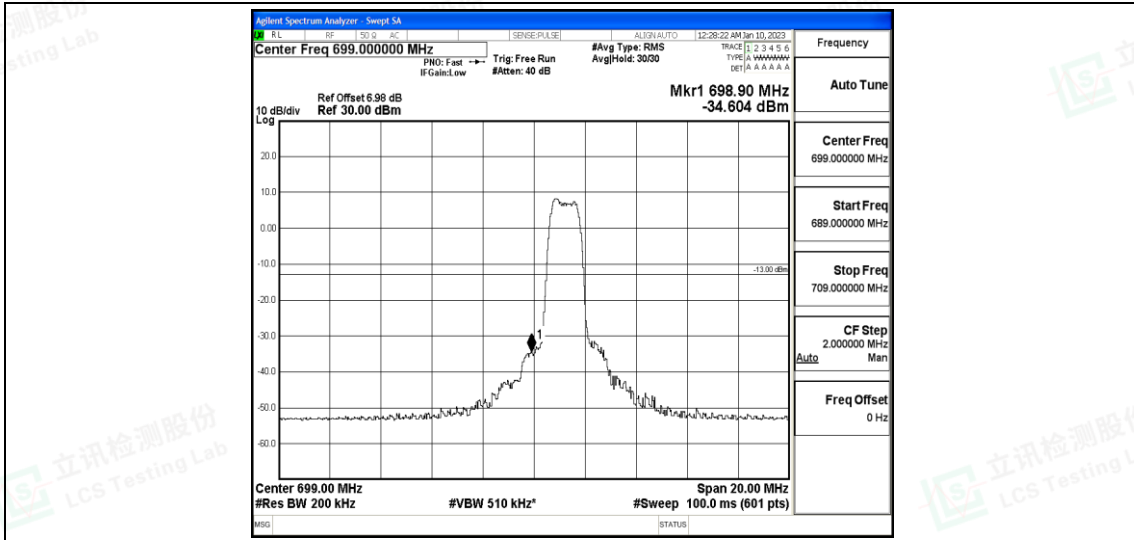


Band12-5MHz-16QAM-23035-6-0-Low--32.11-PASS

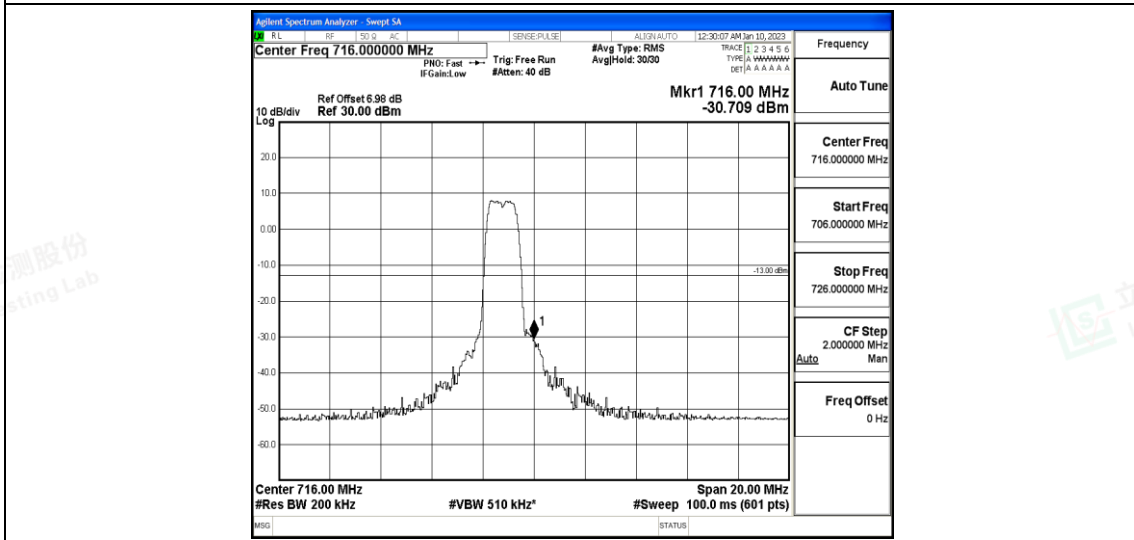


Band12-5MHz-16QAM-23155-6-0-High--29.91-PASS

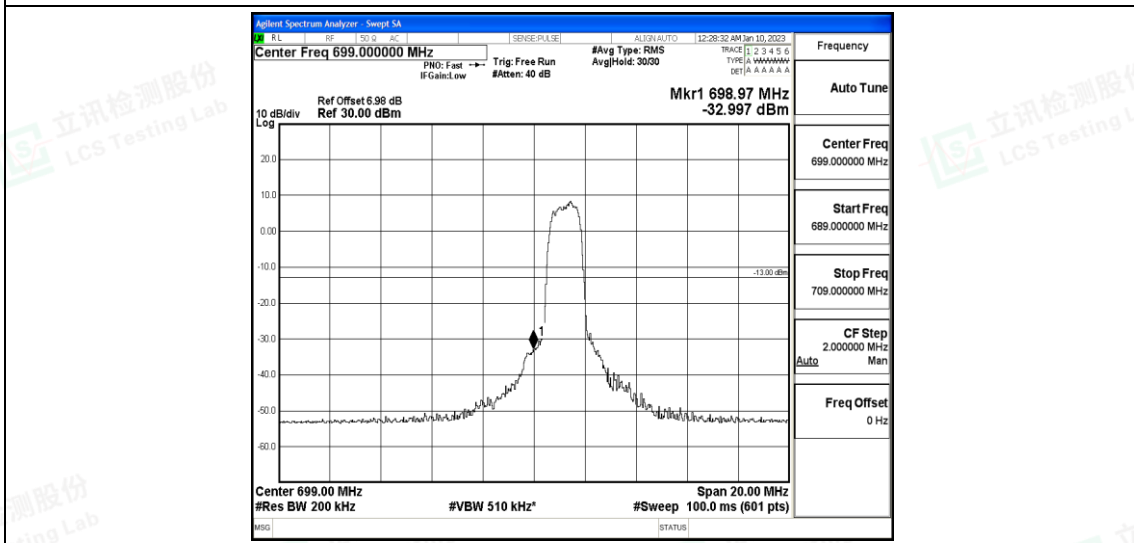




Band12-10MHz-QPSK-23060-6-0-Low--34.60-PASS

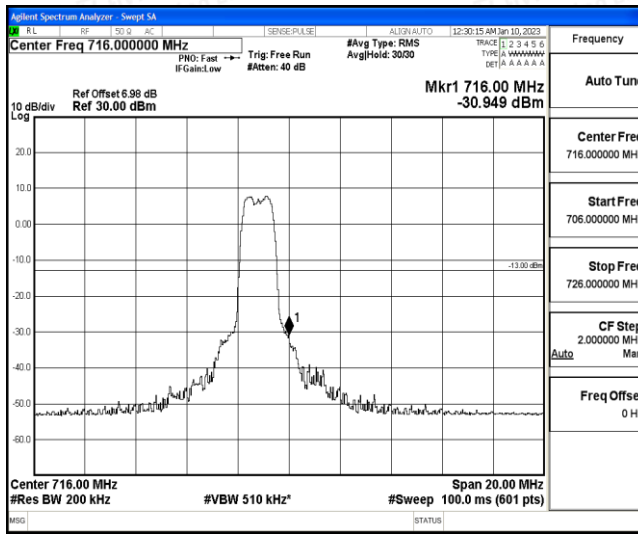


Band12-10MHz-QPSK-23130-6-0-High--30.71-PASS





Band12-10MHz-16QAM-23060-6-0-Low--33.00-PASS



Band12-10MHz-16QAM-23130-6-0-High--30.95-PASS





C.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band12	1.4MHz	23017	QPSK	1	0	Low	30	1000	-37.35	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	1000	5000	-41.54	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	5000	12000	-59.29	PASS
Band12	1.4MHz	23017	QPSK	1	0	Low	12000	26500	-44.3	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	30	1000	-37.46	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	1000	5000	-41.69	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	5000	12000	-59.14	PASS
Band12	1.4MHz	23095	QPSK	1	0	Low	12000	26500	-44.35	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	30	1000	-36.99	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	1000	5000	-42.22	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	5000	12000	-59.3	PASS
Band12	1.4MHz	23173	QPSK	1	0	High	12000	26500	-44.51	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	30	1000	-37.22	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	1000	5000	-42.4	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	5000	12000	-59.41	PASS
Band12	1.4MHz	23017	16QAM	1	0	Low	12000	26500	-44.4	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	30	1000	-37.01	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	1000	5000	-42.1	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	5000	12000	-59.3	PASS
Band12	1.4MHz	23095	16QAM	1	0	Low	12000	26500	-44.55	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	30	1000	-37.47	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	1000	5000	-43.6	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	5000	12000	-59.36	PASS
Band12	1.4MHz	23173	16QAM	1	0	High	12000	26500	-44.27	PASS
Band12	3MHz	23025	QPSK	1	0	Low	30	1000	-37.6	PASS
Band12	3MHz	23025	QPSK	1	0	Low	1000	5000	-41.96	PASS
Band12	3MHz	23025	QPSK	1	0	Low	5000	12000	-59.22	PASS
Band12	3MHz	23025	QPSK	1	0	Low	12000	26500	-44.39	PASS
Band12	3MHz	23095	QPSK	1	0	Low	30	1000	-36.97	PASS
Band12	3MHz	23095	QPSK	1	0	Low	1000	5000	-41.2	PASS
Band12	3MHz	23095	QPSK	1	0	Low	5000	12000	-59.38	PASS
Band12	3MHz	23095	QPSK	1	0	Low	12000	26500	-44.26	PASS
Band12	3MHz	23165	QPSK	1	0	High	30	1000	-36.9	PASS
Band12	3MHz	23165	QPSK	1	0	High	1000	5000	-41.66	PASS



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Scan code to check authenticity



Band12	3MHz	23165	QPSK	1	0	High	5000	12000	-59.12	PASS
Band12	3MHz	23165	QPSK	1	0	High	12000	26500	-44.41	PASS
Band12	3MHz	23025	16QAM	1	0	Low	30	1000	-37.64	PASS
Band12	3MHz	23025	16QAM	1	0	Low	1000	5000	-42.83	PASS
Band12	3MHz	23025	16QAM	1	0	Low	5000	12000	-59.14	PASS
Band12	3MHz	23025	16QAM	1	0	Low	12000	26500	-44.27	PASS
Band12	3MHz	23095	16QAM	1	0	Low	30	1000	-37.13	PASS
Band12	3MHz	23095	16QAM	1	0	Low	1000	5000	-41.76	PASS
Band12	3MHz	23095	16QAM	1	0	Low	5000	12000	-59.09	PASS
Band12	3MHz	23095	16QAM	1	0	Low	12000	26500	-44.44	PASS
Band12	3MHz	23165	16QAM	1	0	High	30	1000	-38.02	PASS
Band12	3MHz	23165	16QAM	1	0	High	1000	5000	-42.84	PASS
Band12	3MHz	23165	16QAM	1	0	High	5000	12000	-59.14	PASS
Band12	3MHz	23165	16QAM	1	0	High	12000	26500	-44.24	PASS
Band12	5MHz	23035	QPSK	1	0	Low	30	1000	-37.27	PASS
Band12	5MHz	23035	QPSK	1	0	Low	1000	5000	-42.77	PASS
Band12	5MHz	23035	QPSK	1	0	Low	5000	12000	-59.35	PASS
Band12	5MHz	23035	QPSK	1	0	Low	12000	26500	-44.55	PASS
Band12	5MHz	23095	QPSK	1	0	Low	30	1000	-37.05	PASS
Band12	5MHz	23095	QPSK	1	0	Low	1000	5000	-41.42	PASS
Band12	5MHz	23095	QPSK	1	0	Low	5000	12000	-59.01	PASS
Band12	5MHz	23095	QPSK	1	0	Low	12000	26500	-44.25	PASS
Band12	5MHz	23155	QPSK	1	0	High	30	1000	-37.75	PASS
Band12	5MHz	23155	QPSK	1	0	High	1000	5000	-41.64	PASS
Band12	5MHz	23155	QPSK	1	0	High	5000	12000	-59.34	PASS
Band12	5MHz	23155	QPSK	1	0	High	12000	26500	-44.42	PASS
Band12	5MHz	23035	16QAM	1	0	Low	30	1000	-37.6	PASS
Band12	5MHz	23035	16QAM	1	0	Low	1000	5000	-41.63	PASS
Band12	5MHz	23035	16QAM	1	0	Low	5000	12000	-59.28	PASS
Band12	5MHz	23035	16QAM	1	0	Low	12000	26500	-44.3	PASS
Band12	5MHz	23095	16QAM	1	0	Low	30	1000	-37.33	PASS
Band12	5MHz	23095	16QAM	1	0	Low	1000	5000	-41.23	PASS
Band12	5MHz	23095	16QAM	1	0	Low	5000	12000	-59.18	PASS
Band12	5MHz	23095	16QAM	1	0	Low	12000	26500	-44.2	PASS
Band12	5MHz	23155	16QAM	1	0	High	30	1000	-37.16	PASS
Band12	5MHz	23155	16QAM	1	0	High	1000	5000	-41.96	PASS
Band12	5MHz	23155	16QAM	1	0	High	5000	12000	-59.08	PASS
Band12	5MHz	23155	16QAM	1	0	High	12000	26500	-44.47	PASS
Band12	10MHz	23060	QPSK	1	0	Low	30	1000	-36.78	PASS
Band12	10MHz	23060	QPSK	1	0	Low	1000	5000	-41.67	PASS



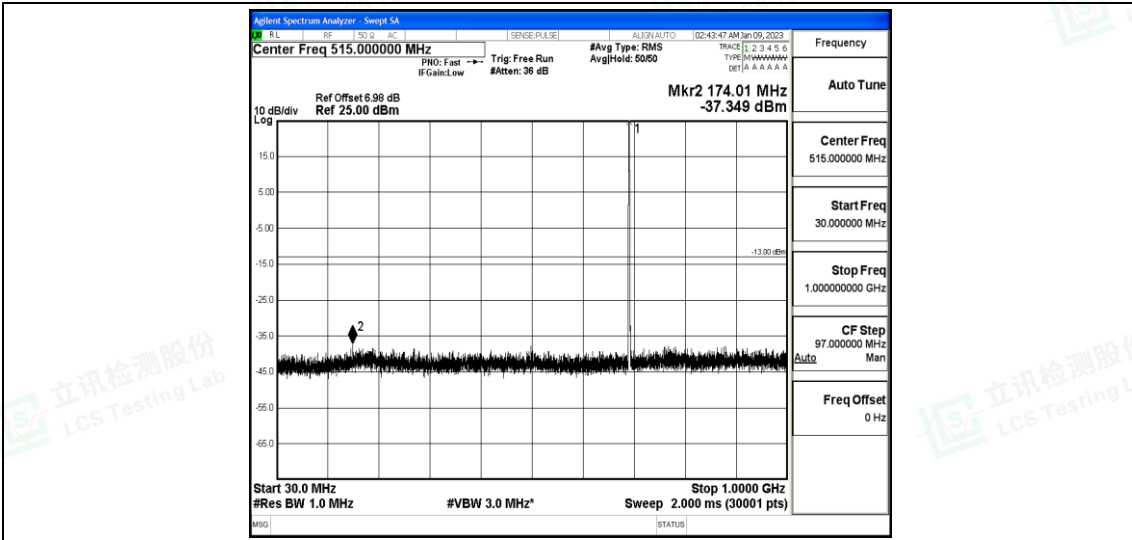


Band12	10MHz	23060	QPSK	1	0	Low	5000	12000	-59.3	PASS
Band12	10MHz	23060	QPSK	1	0	Low	12000	26500	-44.55	PASS
Band12	10MHz	23095	QPSK	1	0	Low	30	1000	-37.67	PASS
Band12	10MHz	23095	QPSK	1	0	Low	1000	5000	-41.6	PASS
Band12	10MHz	23095	QPSK	1	0	Low	5000	12000	-59.47	PASS
Band12	10MHz	23095	QPSK	1	0	Low	12000	26500	-44.45	PASS
Band12	10MHz	23130	QPSK	1	0	High	30	1000	-37.76	PASS
Band12	10MHz	23130	QPSK	1	0	High	1000	5000	-42	PASS
Band12	10MHz	23130	QPSK	1	0	High	5000	12000	-59.23	PASS
Band12	10MHz	23130	QPSK	1	0	High	12000	26500	-44.4	PASS
Band12	10MHz	23060	16QAM	1	0	Low	30	1000	-36.88	PASS
Band12	10MHz	23060	16QAM	1	0	Low	1000	5000	-42.86	PASS
Band12	10MHz	23060	16QAM	1	0	Low	5000	12000	-59.55	PASS
Band12	10MHz	23060	16QAM	1	0	Low	12000	26500	-44.44	PASS
Band12	10MHz	23095	16QAM	1	0	Low	30	1000	-37.77	PASS
Band12	10MHz	23095	16QAM	1	0	Low	1000	5000	-41.53	PASS
Band12	10MHz	23095	16QAM	1	0	Low	5000	12000	-59.42	PASS
Band12	10MHz	23095	16QAM	1	0	Low	12000	26500	-44.65	PASS
Band12	10MHz	23130	16QAM	1	0	High	30	1000	-38.01	PASS
Band12	10MHz	23130	16QAM	1	0	High	1000	5000	-41	PASS
Band12	10MHz	23130	16QAM	1	0	High	5000	12000	-59.31	PASS
Band12	10MHz	23130	16QAM	1	0	High	12000	26500	-44.58	PASS

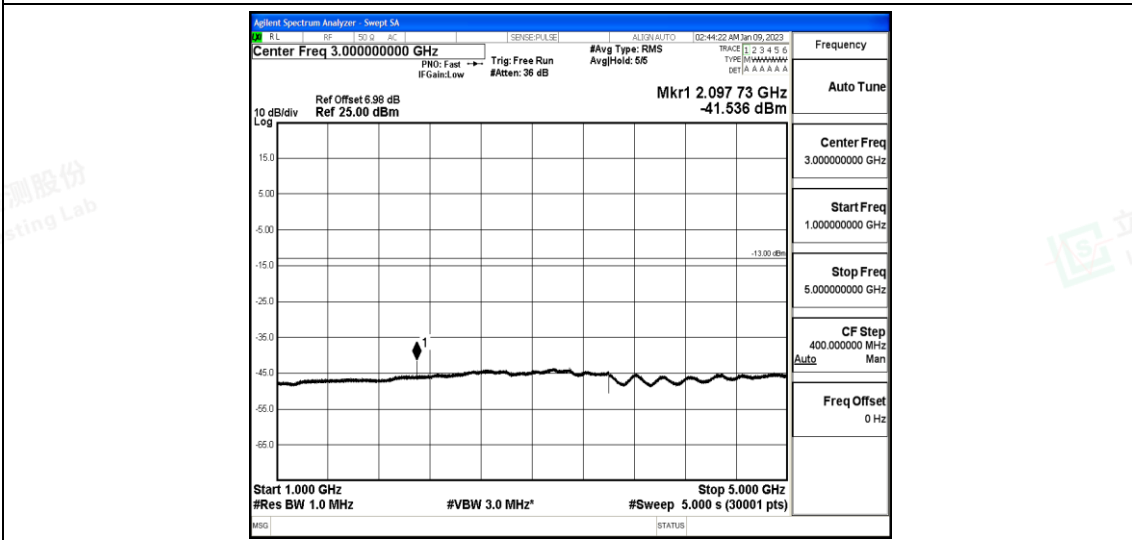




Test Graphs

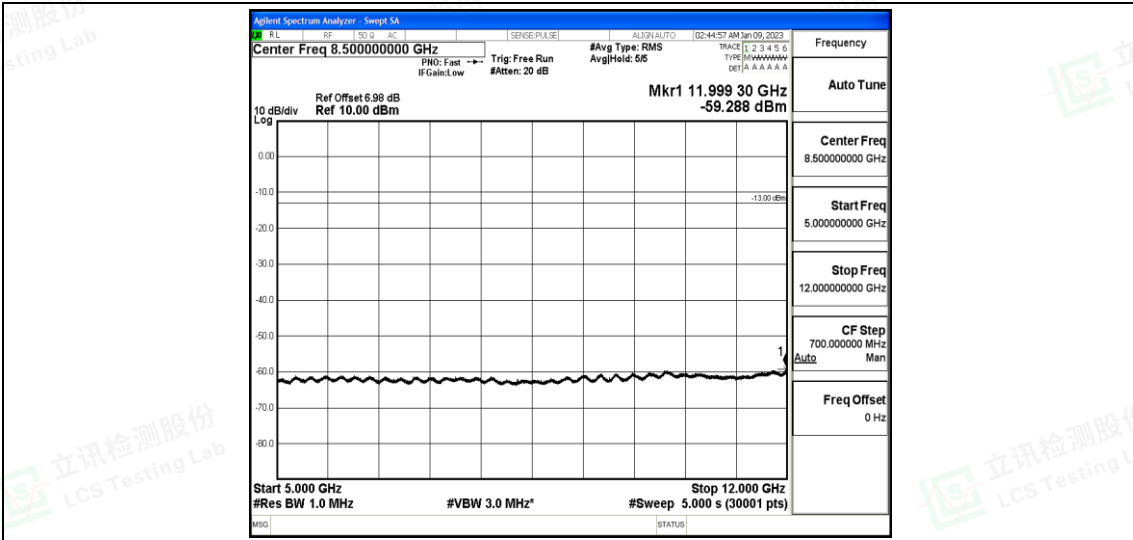


Band12-1.4MHz-QPSK-23017-1-0-Low-30-1000--37.35-PASS

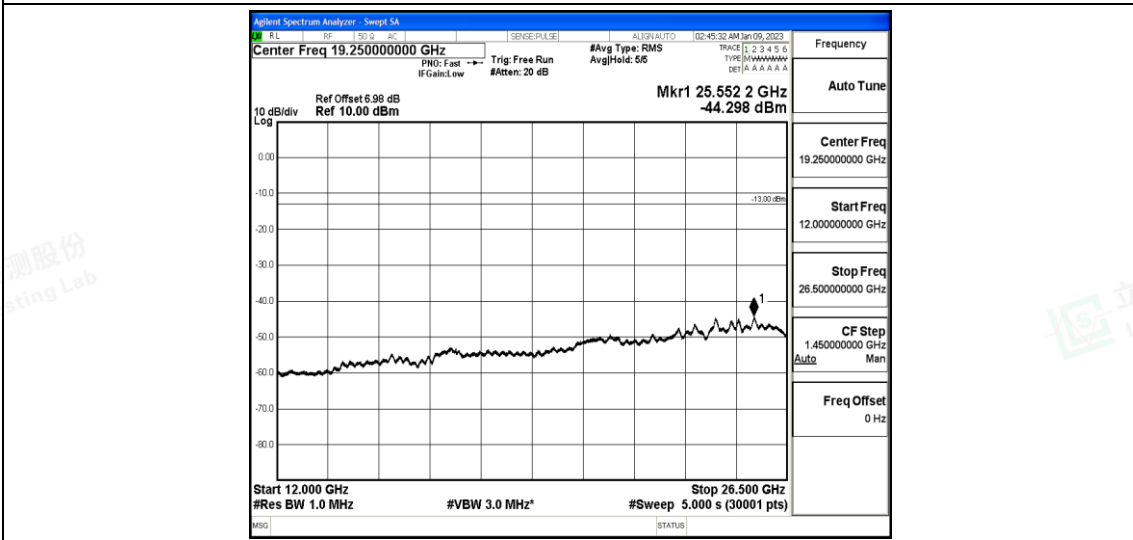


Band12-1.4MHz-QPSK-23017-1-0-Low-1000-5000--41.54-PASS

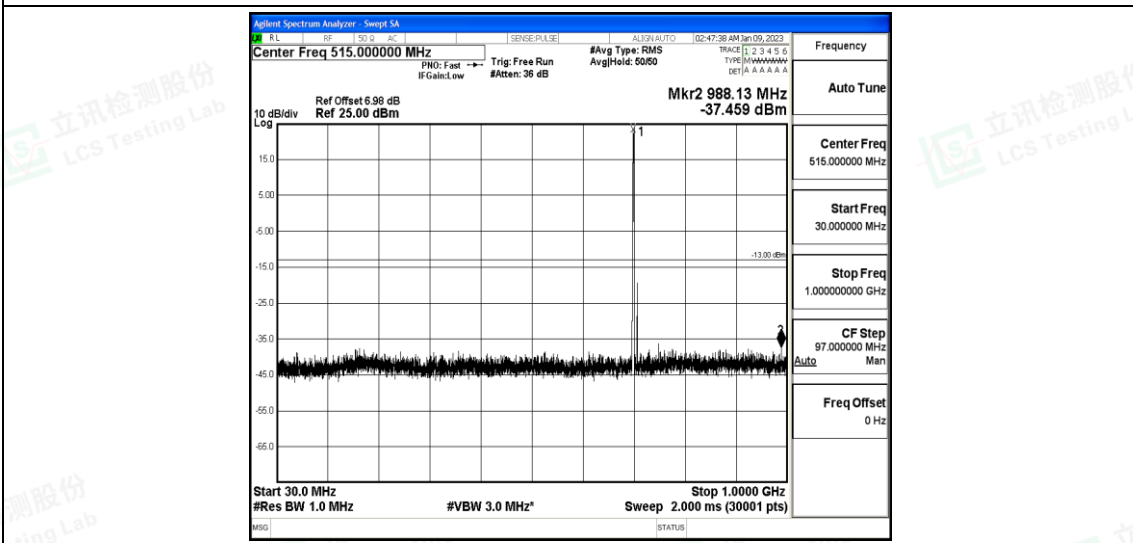




Band12-1.4MHz-QPSK-23017-1-0-Low-5000-12000--59.29-PASS

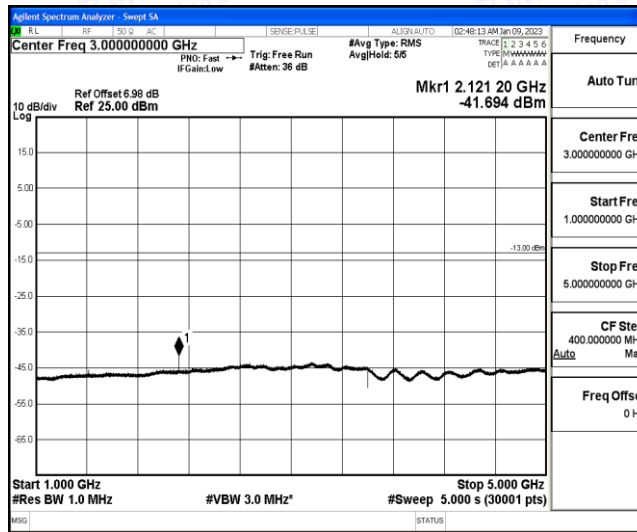


Band12-1.4MHz-QPSK-23017-1-0-Low-12000-26500--44.3-PASS

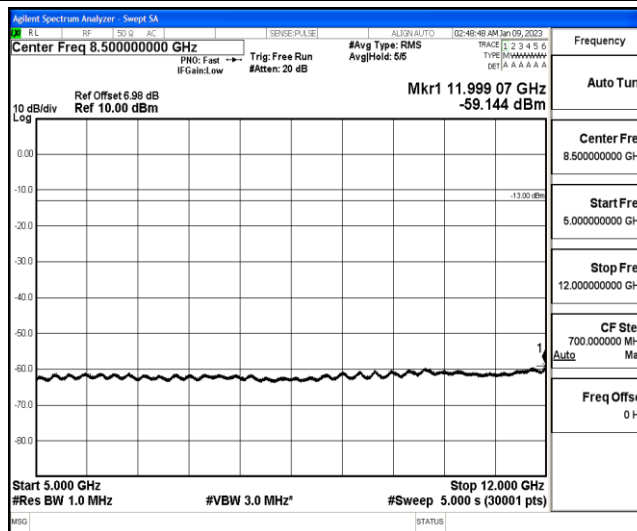




Band12-1.4MHz-QPSK-23095-1-0-Low-30-1000--37.46-PASS

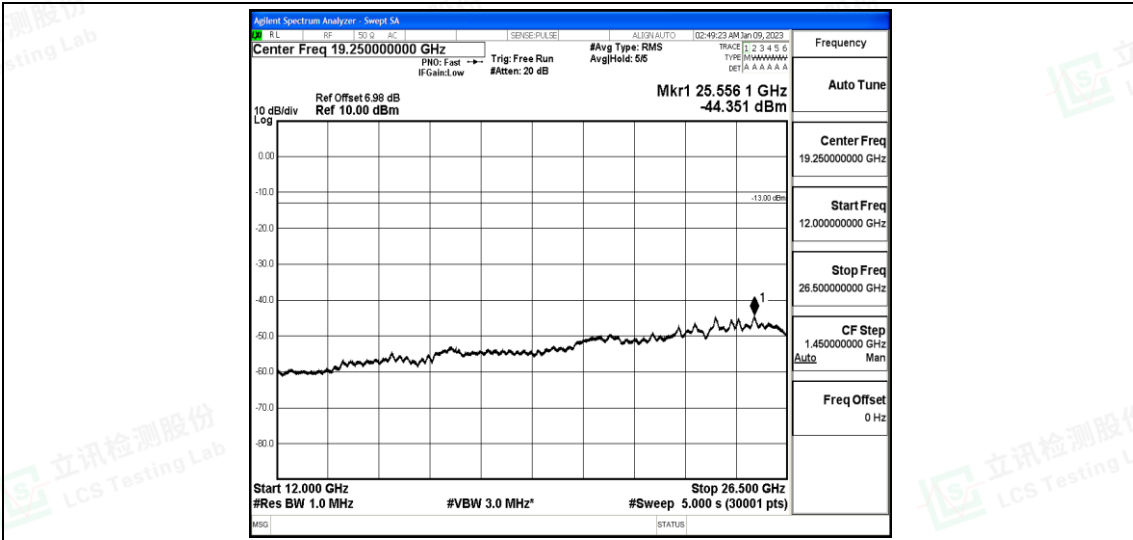


Band12-1.4MHz-QPSK-23095-1-0-Low-1000-5000--41.69-PASS

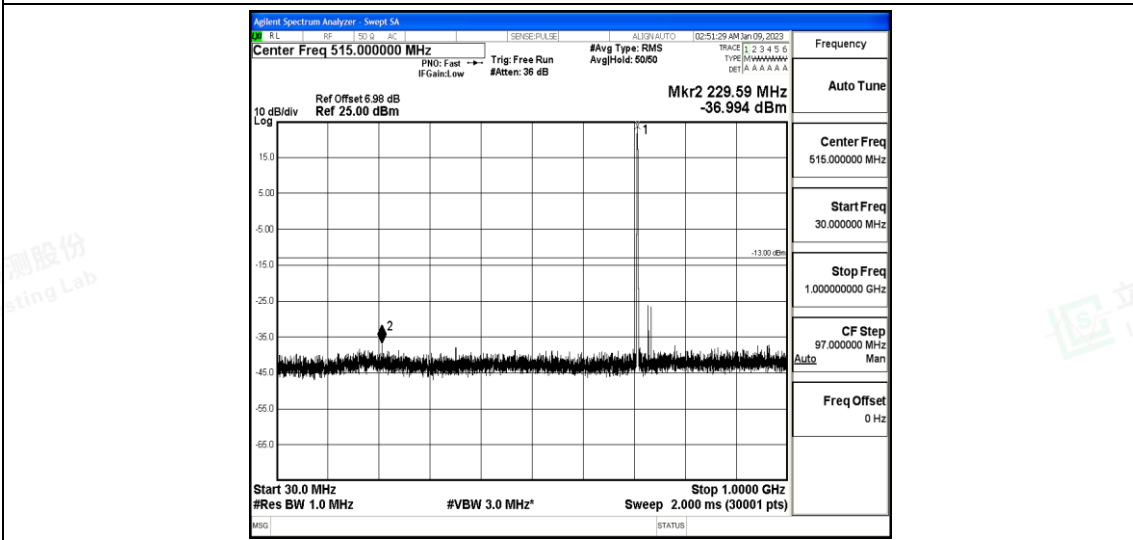


Band12-1.4MHz-QPSK-23095-1-0-Low-5000-12000--59.14-PASS





Band12-1.4MHz-QPSK-23095-1-0-Low-12000-26500--44.35-PASS



Band12-1.4MHz-QPSK-23173-1-0-High-30-1000--36.99-PASS

