



Appendix K: Test Data for E-UTRA Band 13

Product Name: DAKT-50

Test Model: DAKT-50

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





K.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.87	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.31	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.84	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.33	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.86	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.08	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.88	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.09	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.90	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.07	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.13	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.24	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.46	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.23	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.55	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.23	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.59	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.13	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.05	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.11	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.06	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.13	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.10	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.18	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.08	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.24	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.11	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.22	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.15	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.27	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.24	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.04	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.21	PASS





Band13	5MHz	QPSK	23255	12RB#6	23.18	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.20	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.17	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.33	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.11	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.18	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.04	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.07	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.19	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.11	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.17	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.19	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.21	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.03	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.20	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.09	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.12	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.19	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.10	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.04	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.91	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.08	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.48	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.14	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.84	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.60	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.20	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.69	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.59	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.22	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.96	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.93	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.83	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.41	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.14	13	PASS



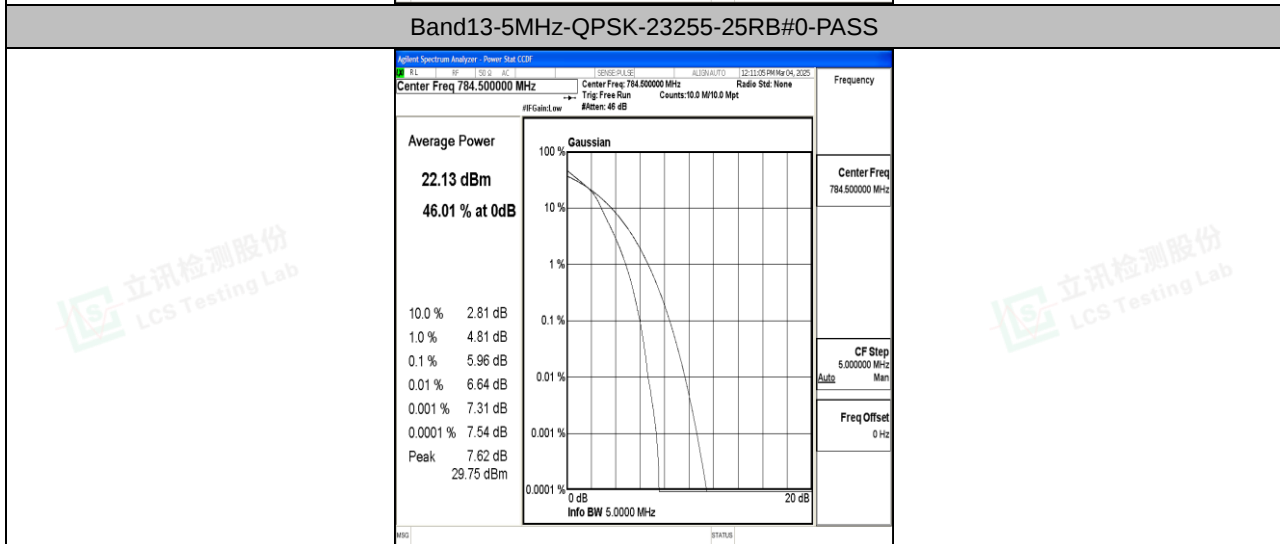
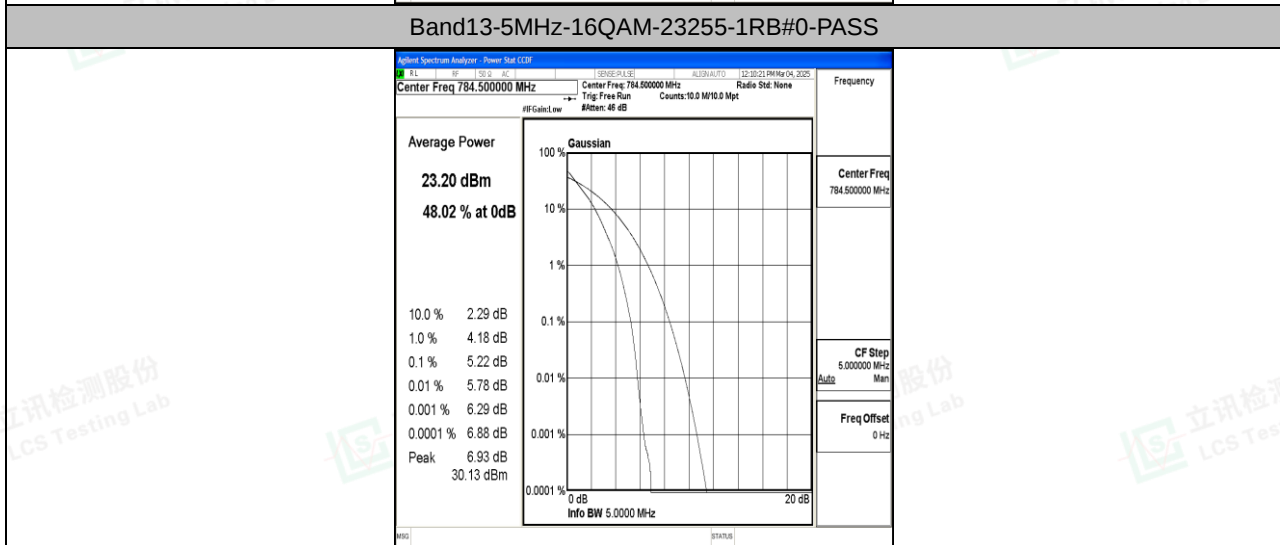
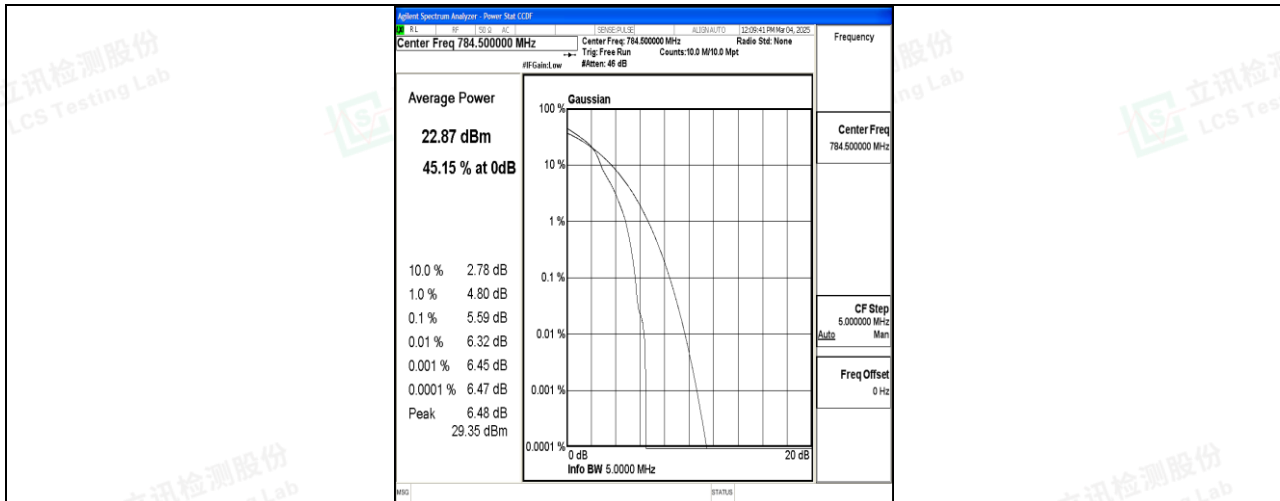


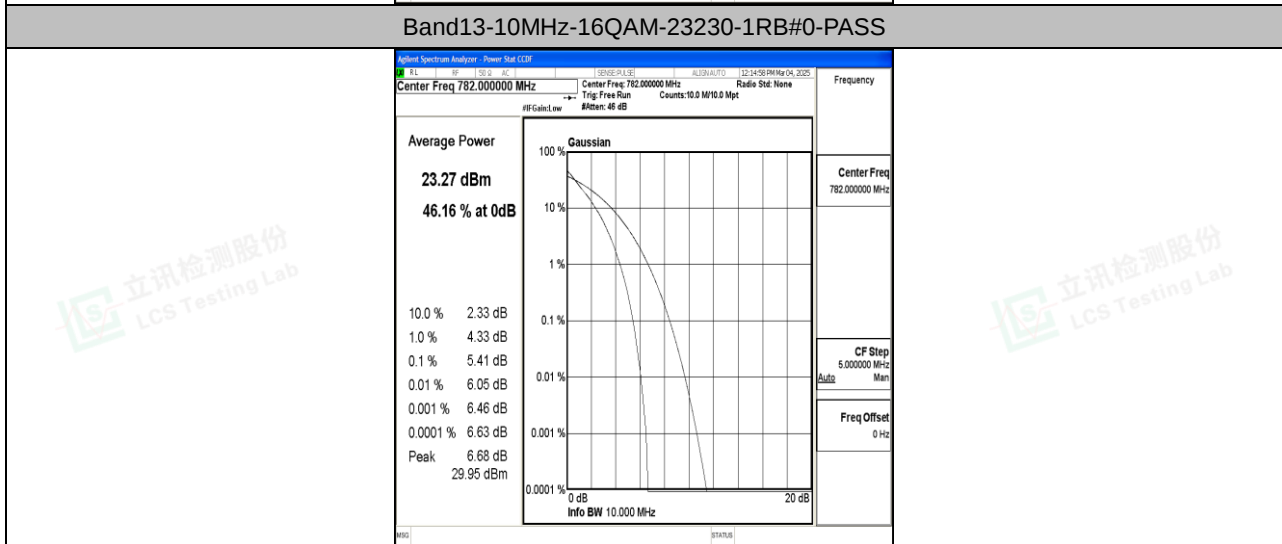
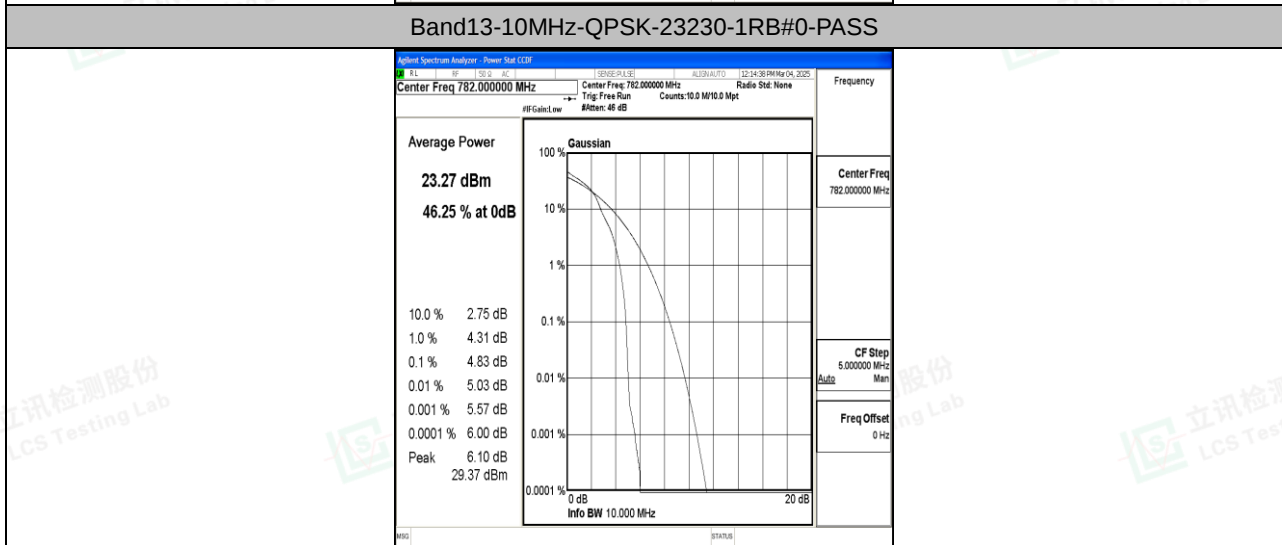
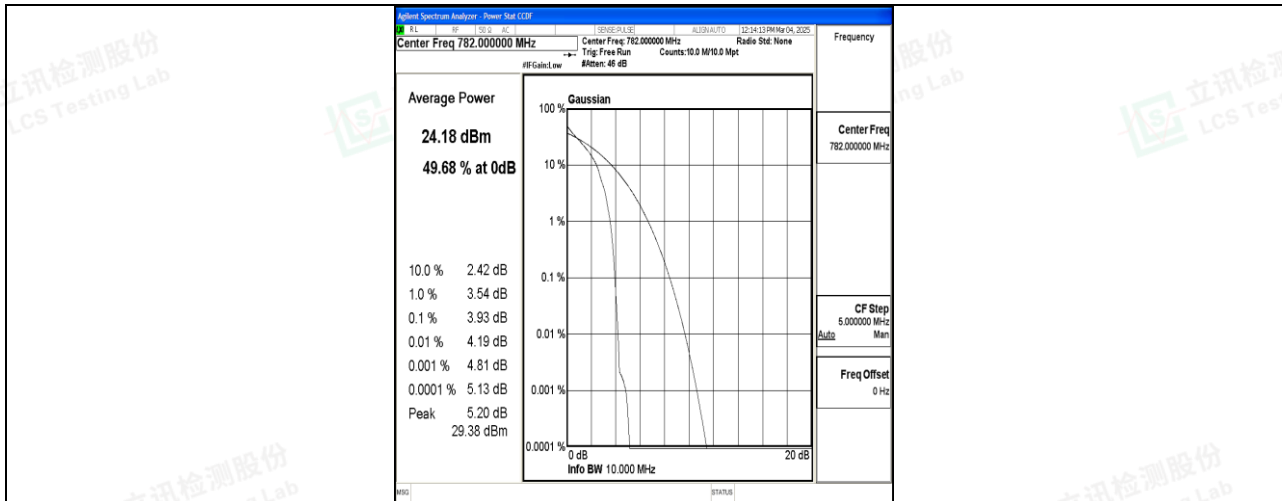
Test Graphs

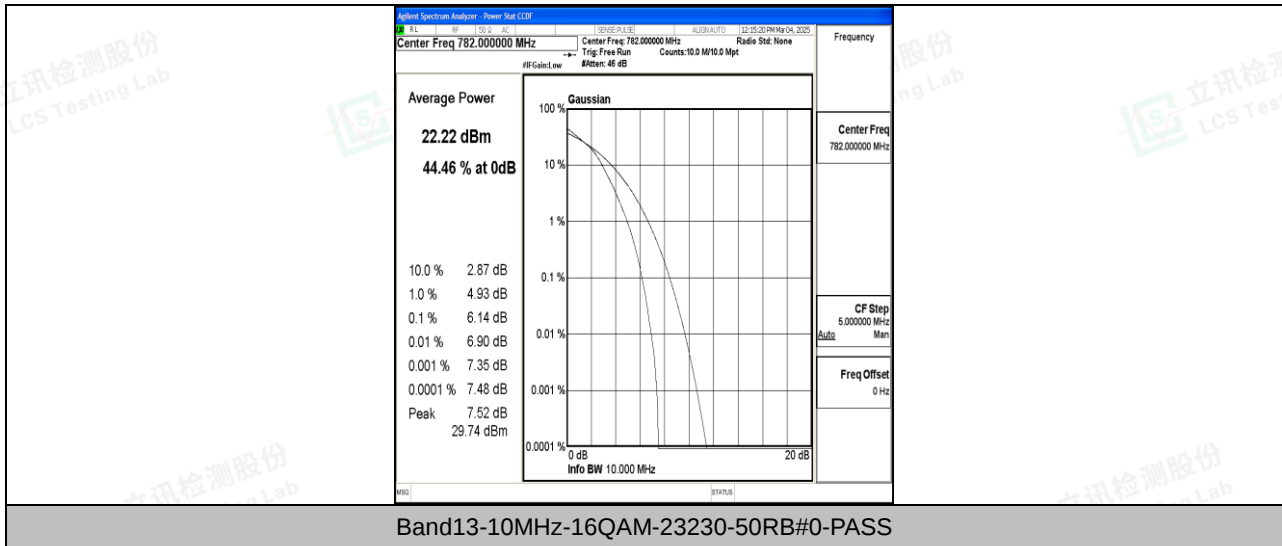














K.3 26dB Bandwidth and Occupied Bandwidth

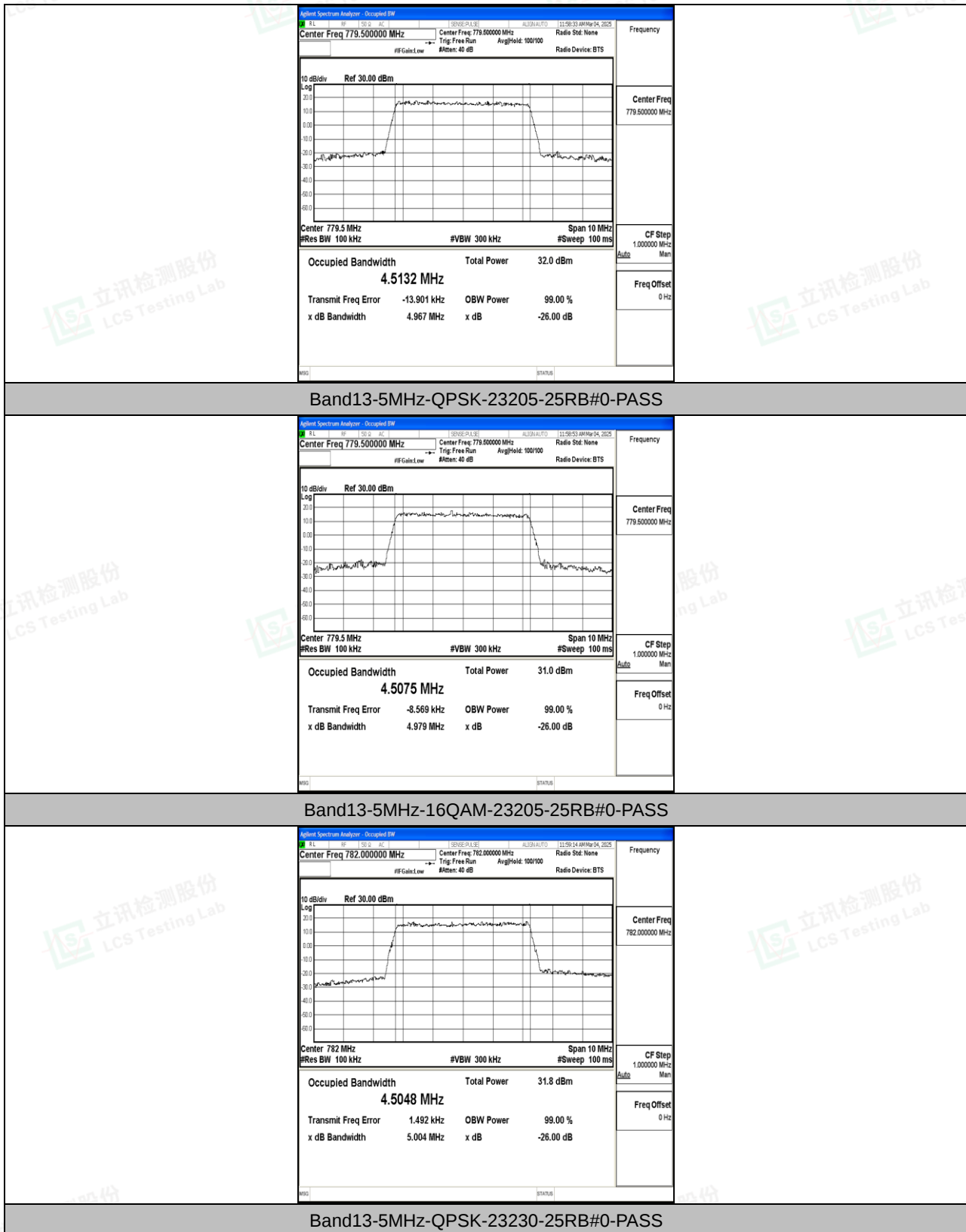
Test Result

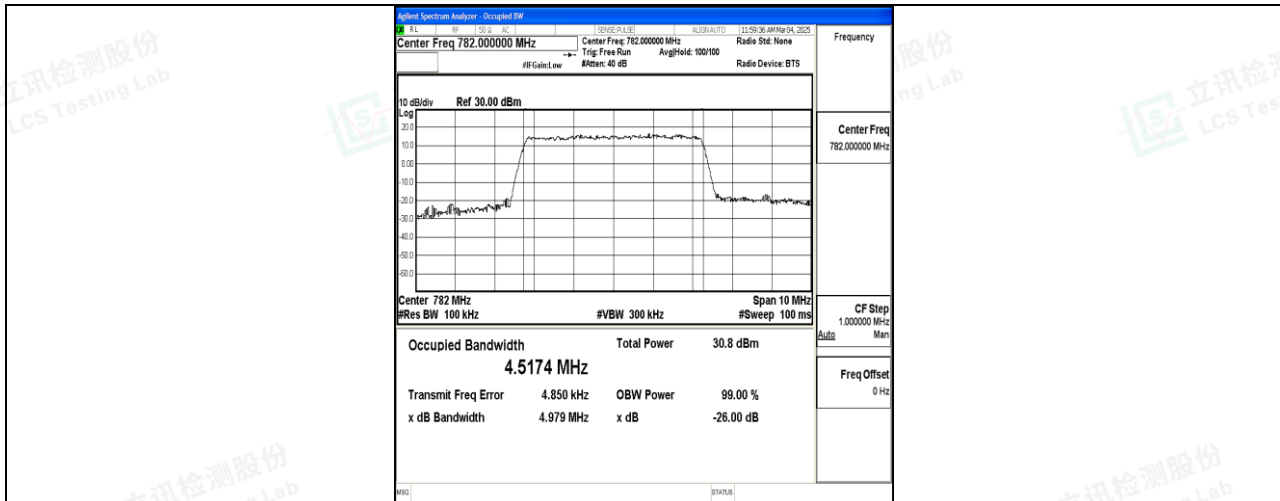
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5132	4.967	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5075	4.979	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5048	5.004	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5174	4.979	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5042	4.952	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5196	4.989	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0178	9.893	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0124	9.960	PASS



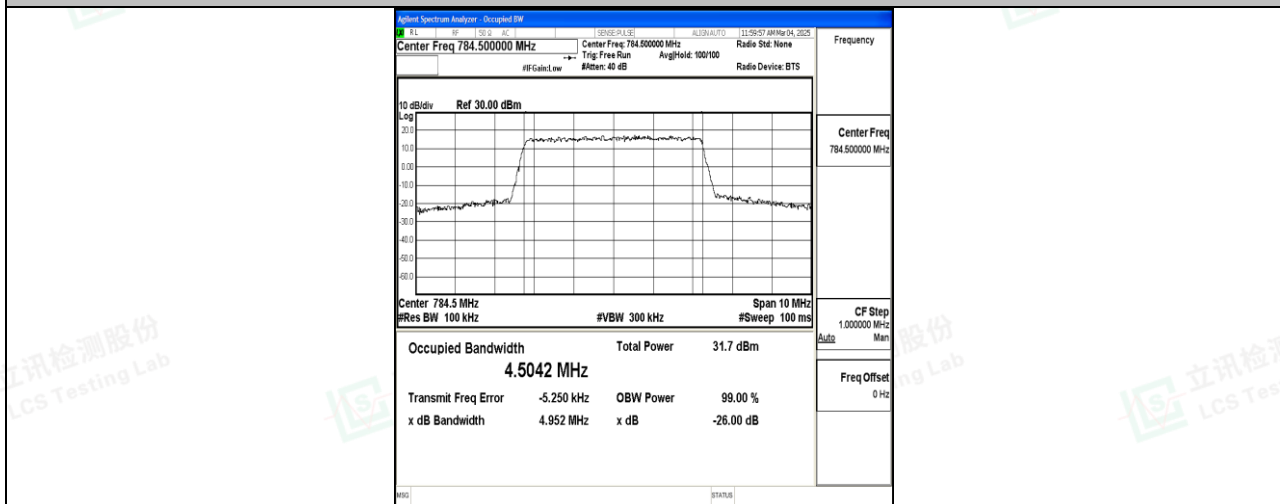


Test Graphs

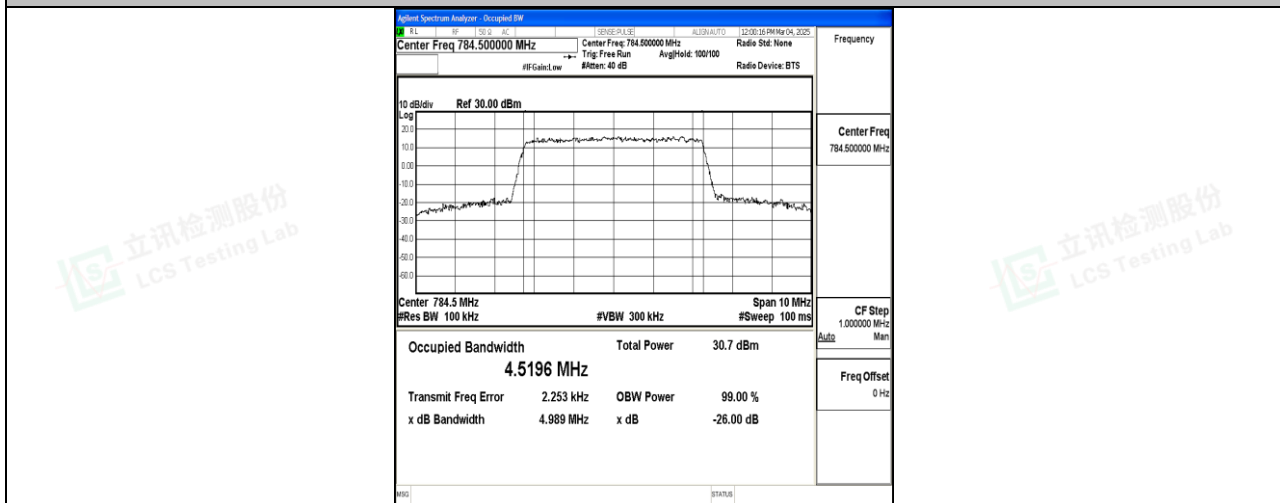




Band13-5MHz-16QAM-23230-25RB#0-PASS

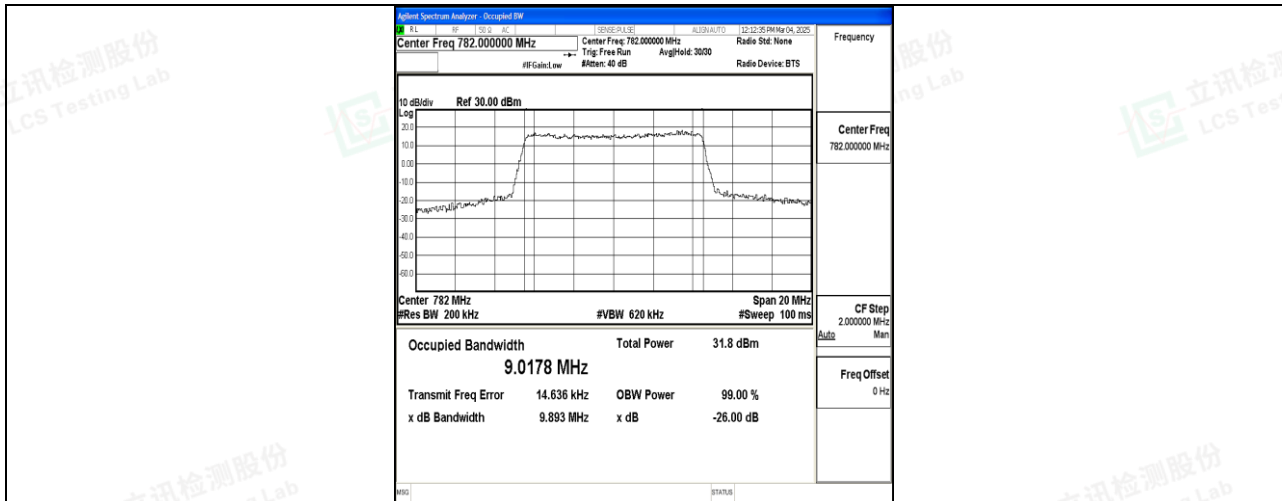


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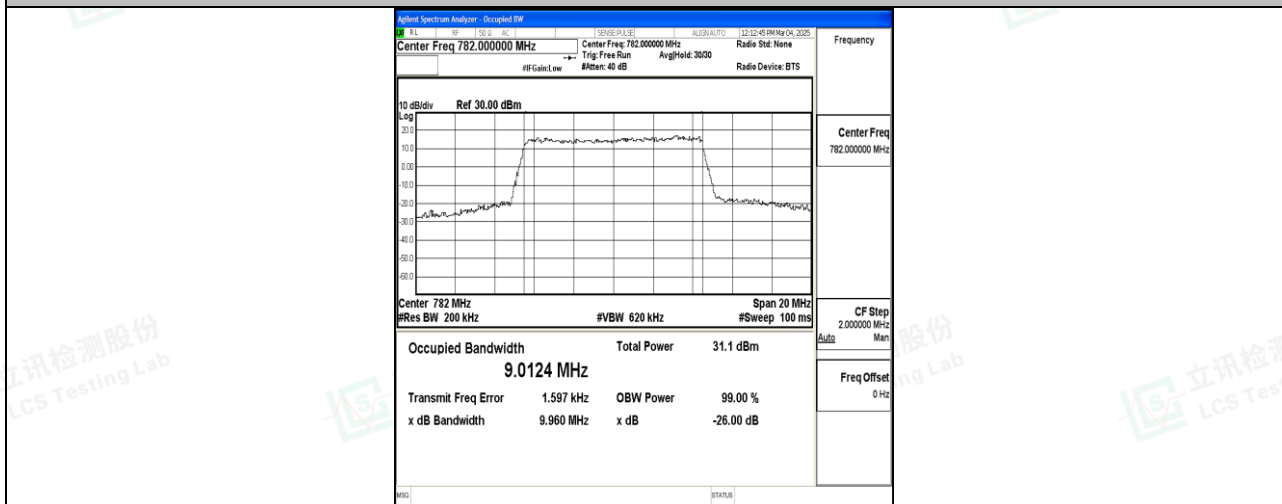


Band13-5MHz-16QAM-23255-25RB#0-PASS





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



Band13-10MHz-16QAM-23230-50RB#0-PASS



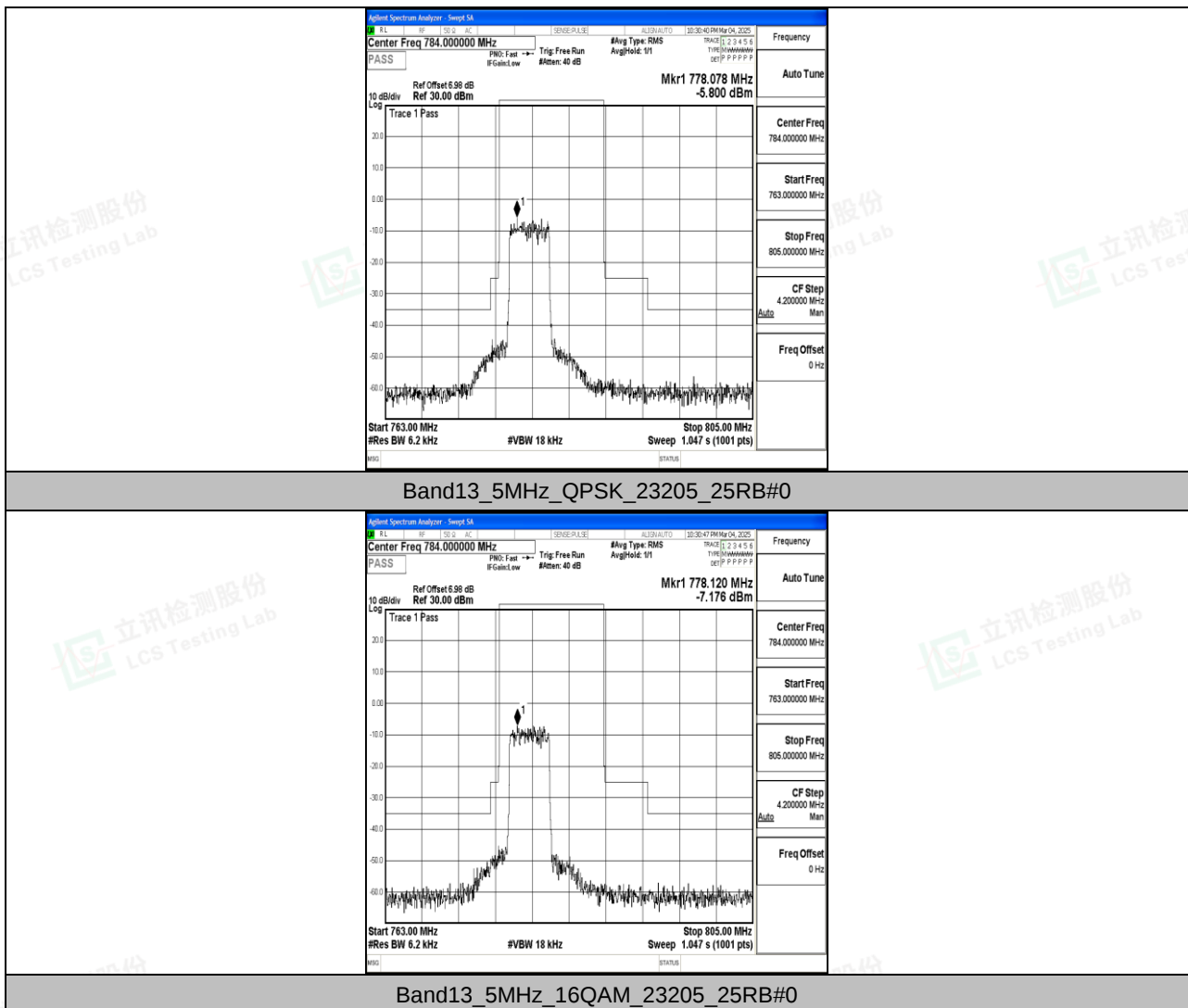


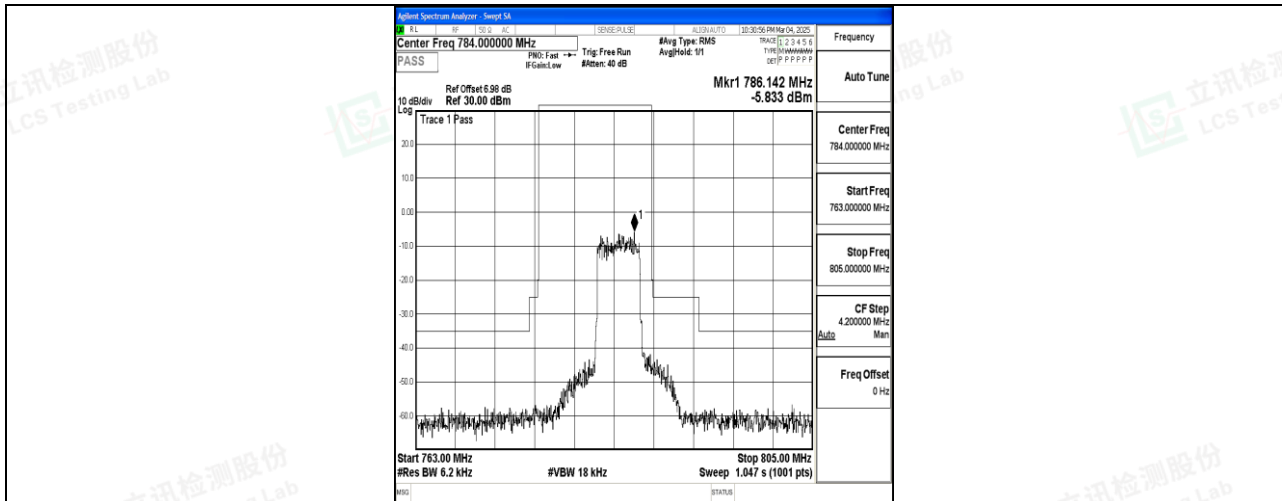
K.4 Band Edge

Test Result

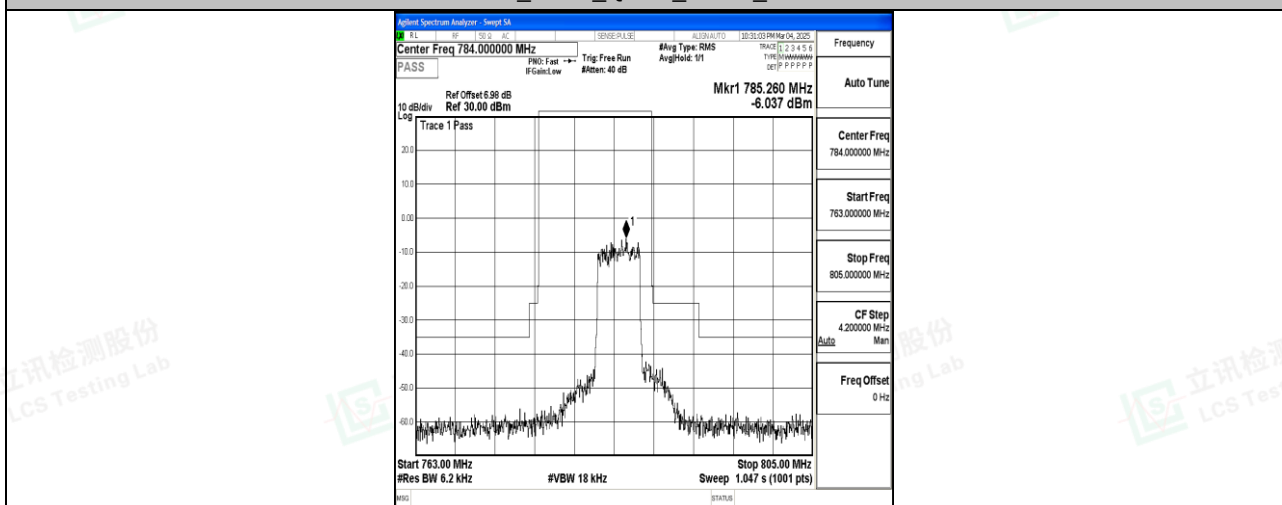
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.89	-49.29	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.68	-50.53	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.54	-43.46	PASS
Band13	5MHz	16QAM	23255	25RB#0	789.12	-44.27	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.84	-50.27	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.30	-50.34	PASS

Test Graphs

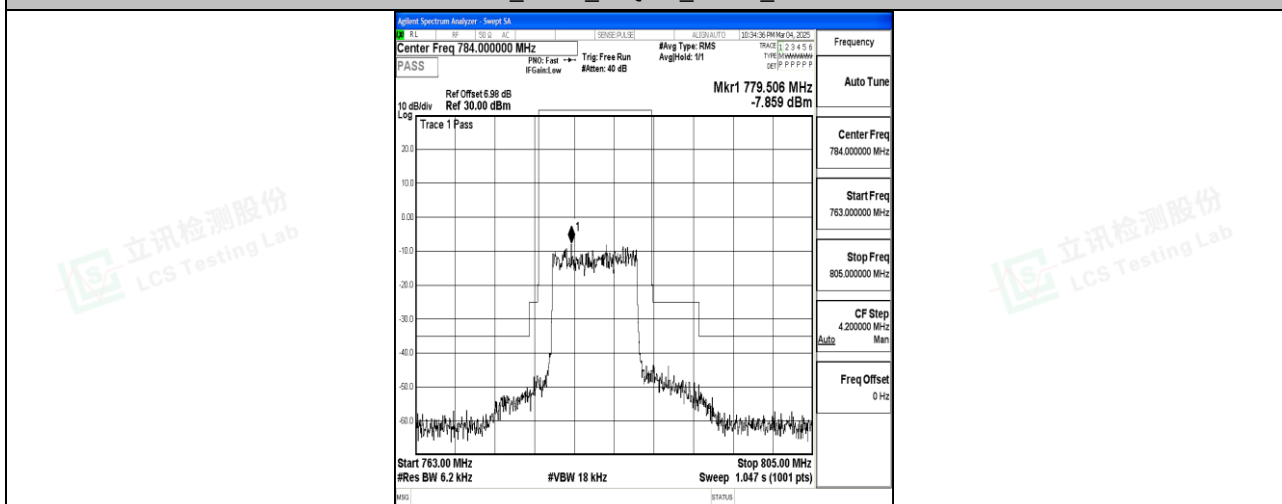




Band13_5MHz_QPSK_23255_25RB#0

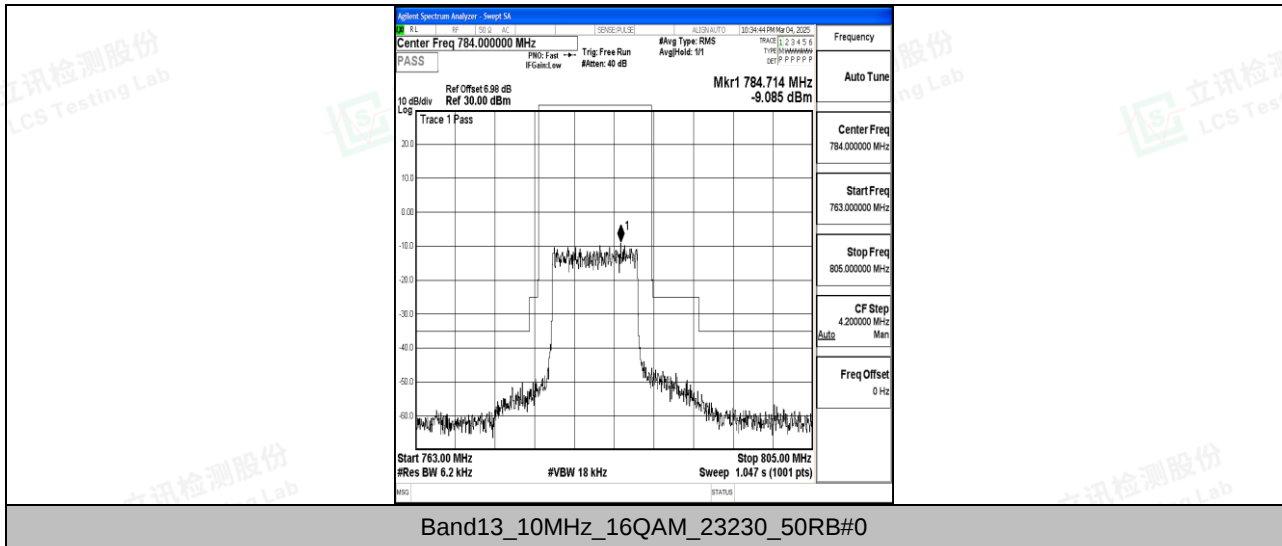


Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0







K.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	-56.95	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-47.01	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-53.69	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-38.63	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.32	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-58.26	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-46.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-52.74	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-39.49	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-34.90	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.26	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-47.93	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-51.96	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-39.10	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.36	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-57.42	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-46.41	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.93	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.89	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-35.46	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-57.26	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-43.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.76	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.69	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.00	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.52	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-44.67	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.59	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-38.98	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.72	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-57.19	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-47.26	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-53.61	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-39.39	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.74	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-55.83	PASS

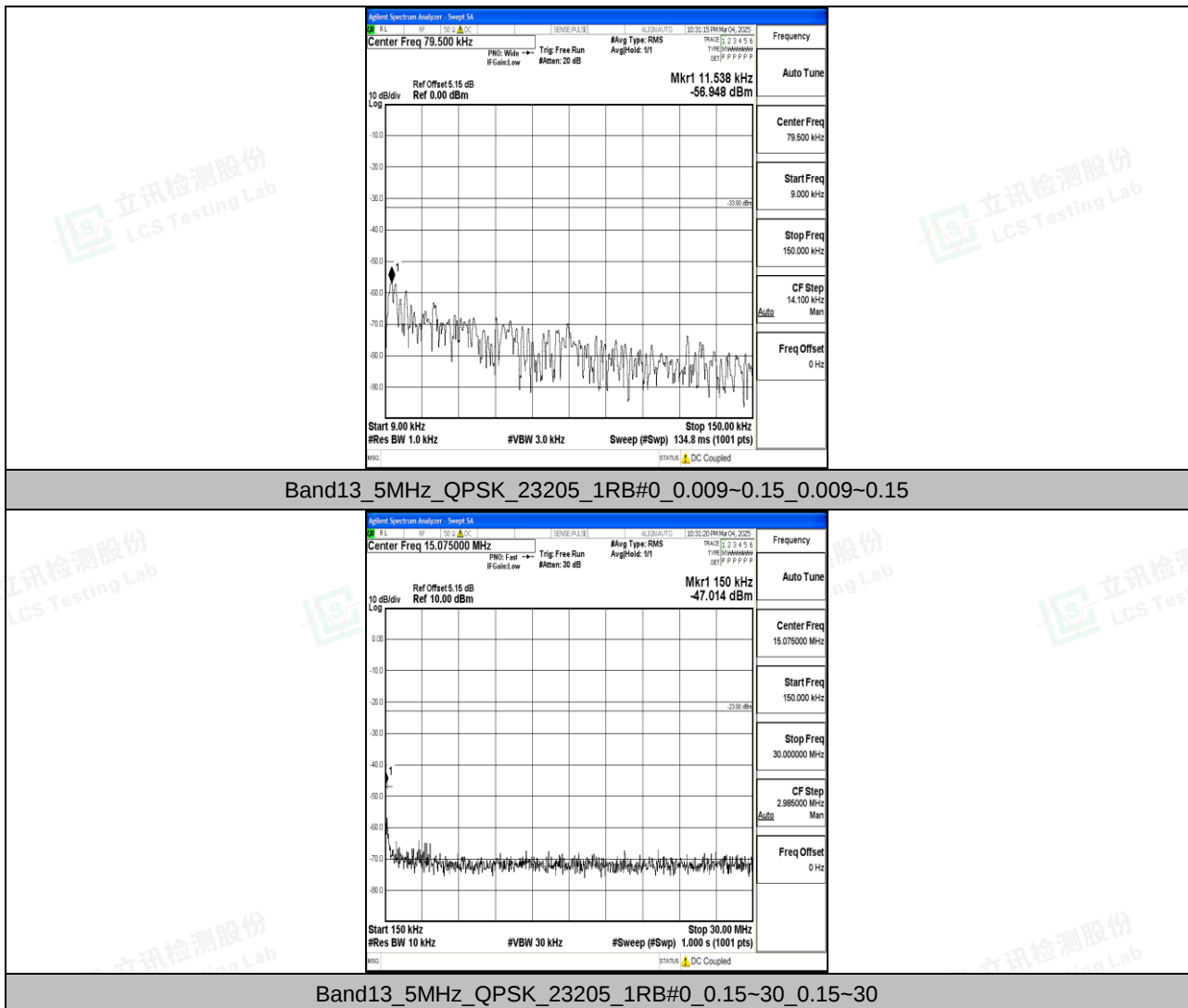


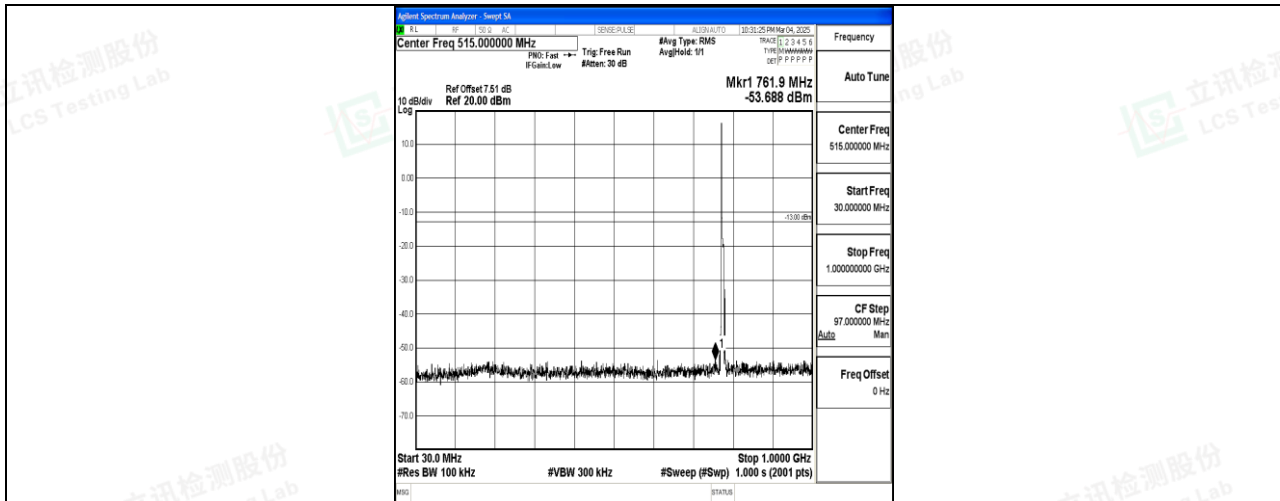
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



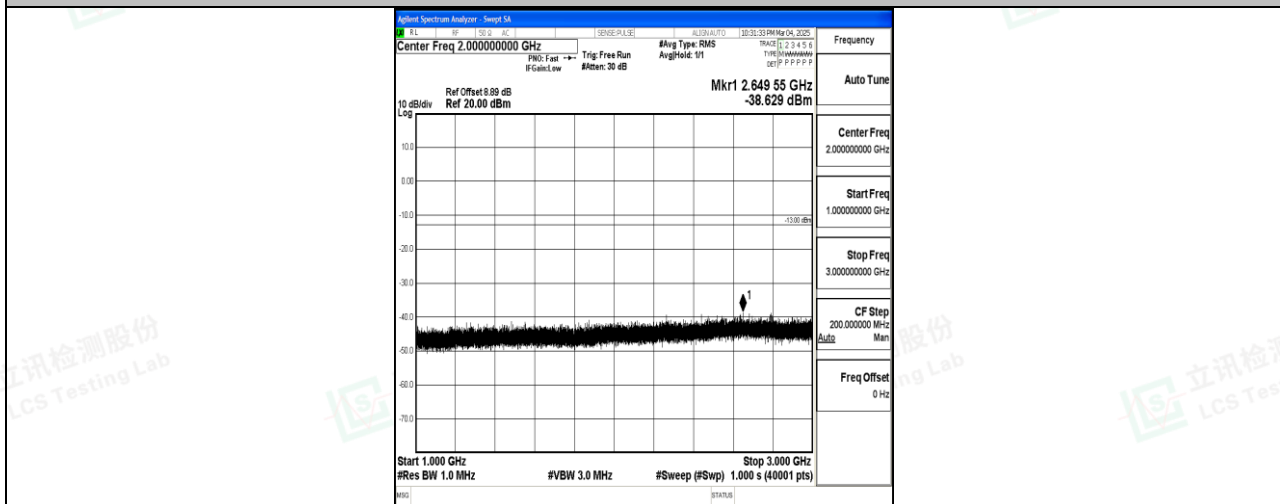
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-44.03	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.54	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-38.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.00	PASS

Test Graphs

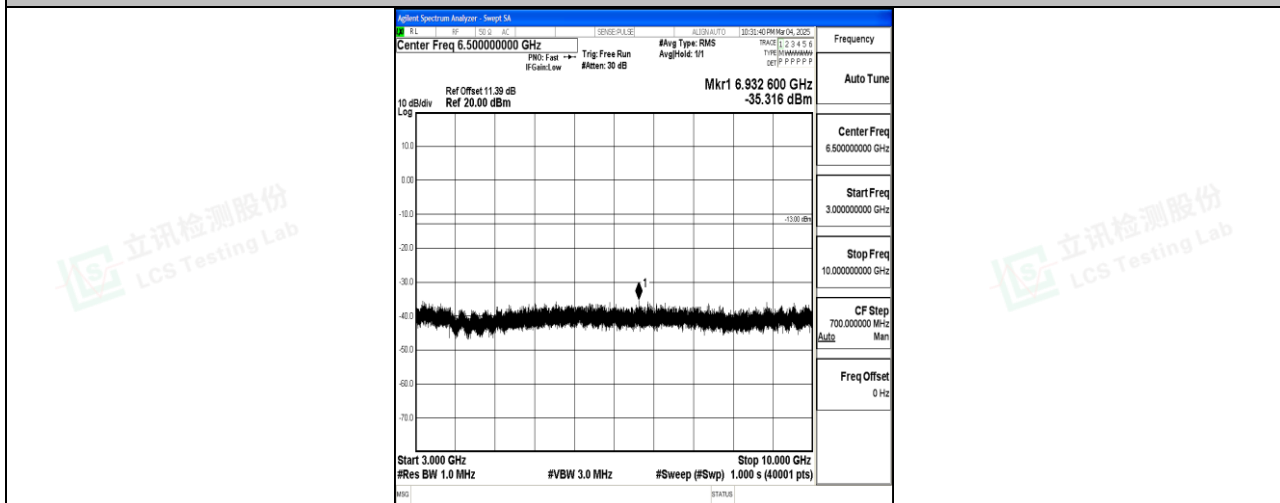




Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

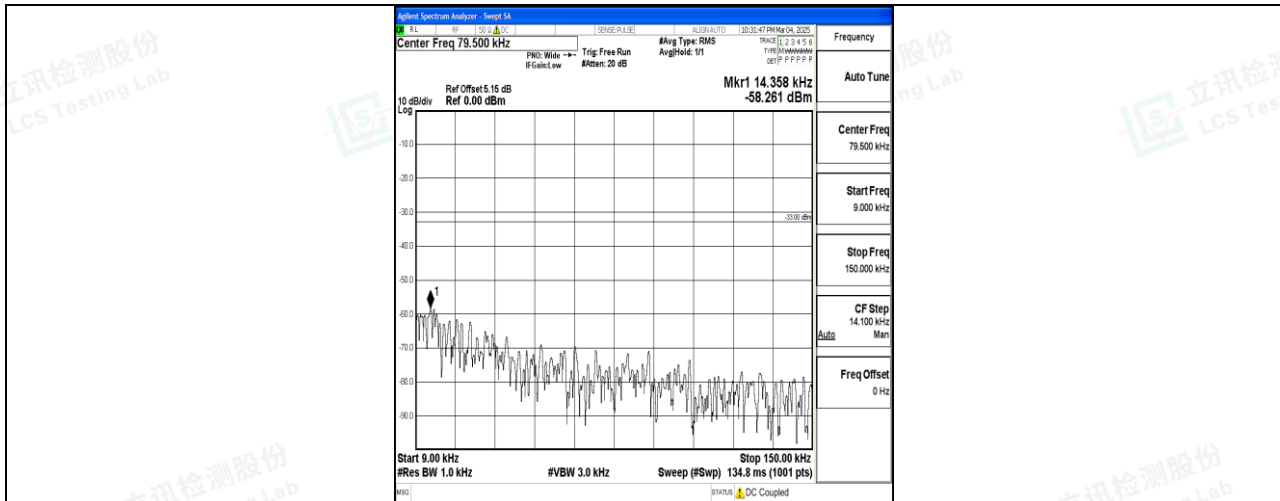


Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000

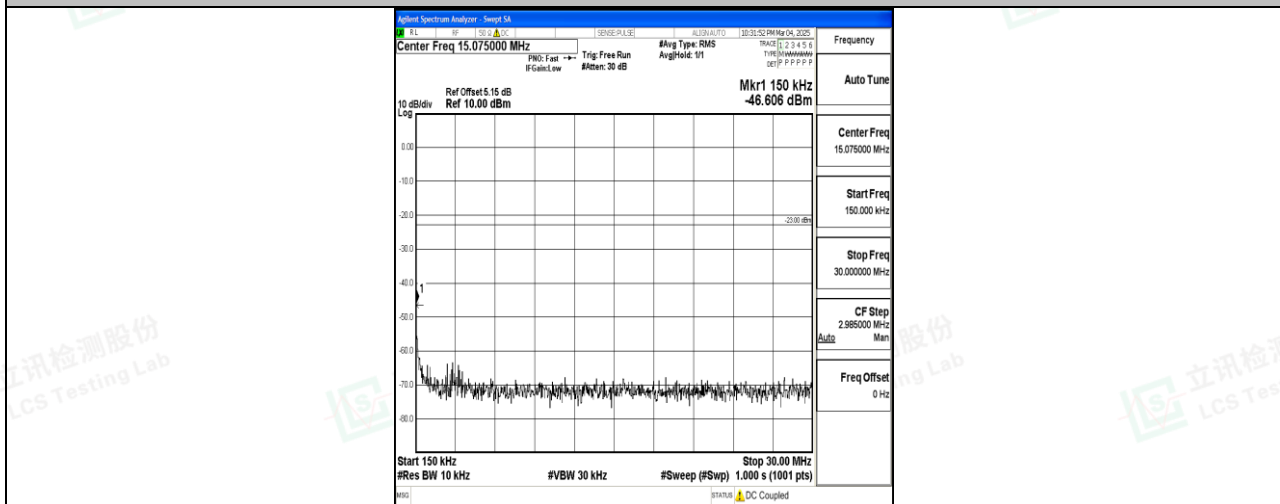


Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000

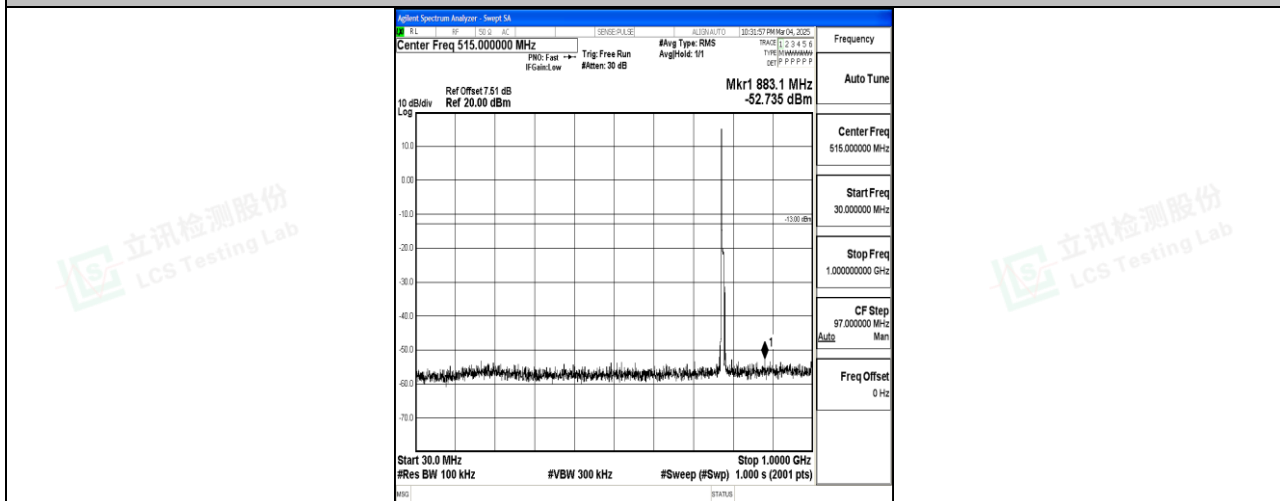




Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.009~0.15

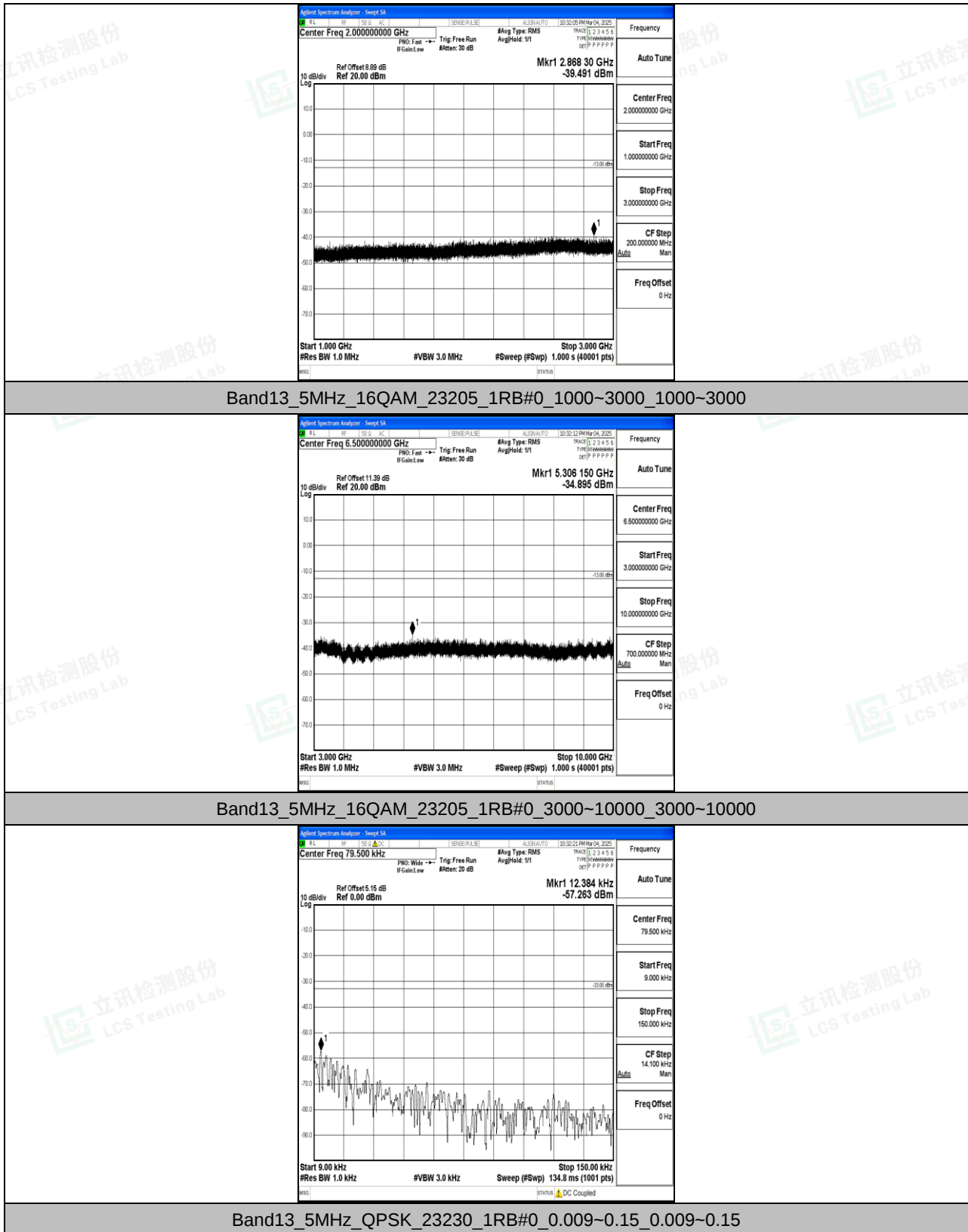


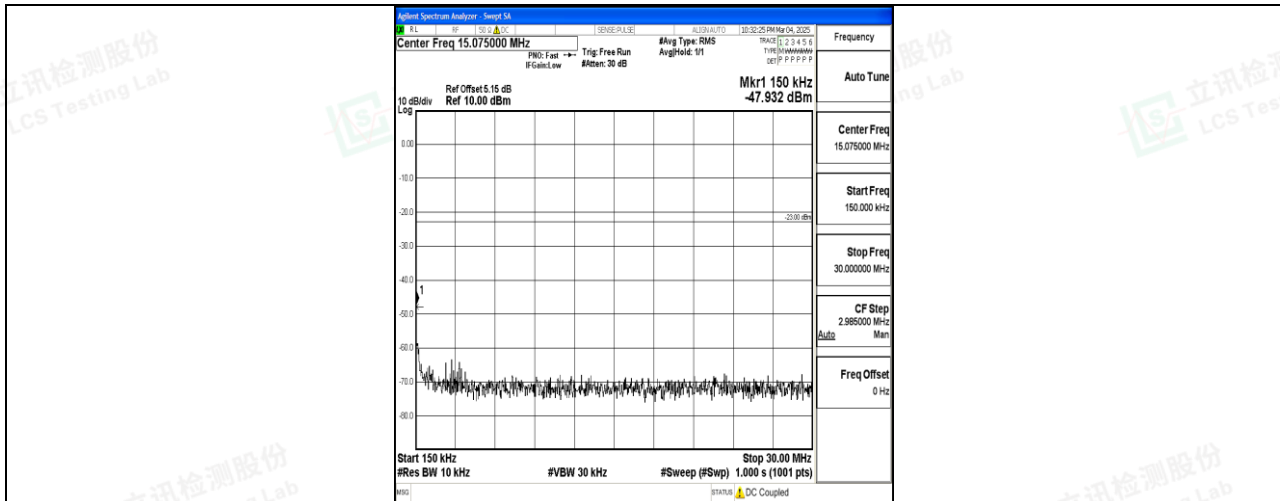
Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30



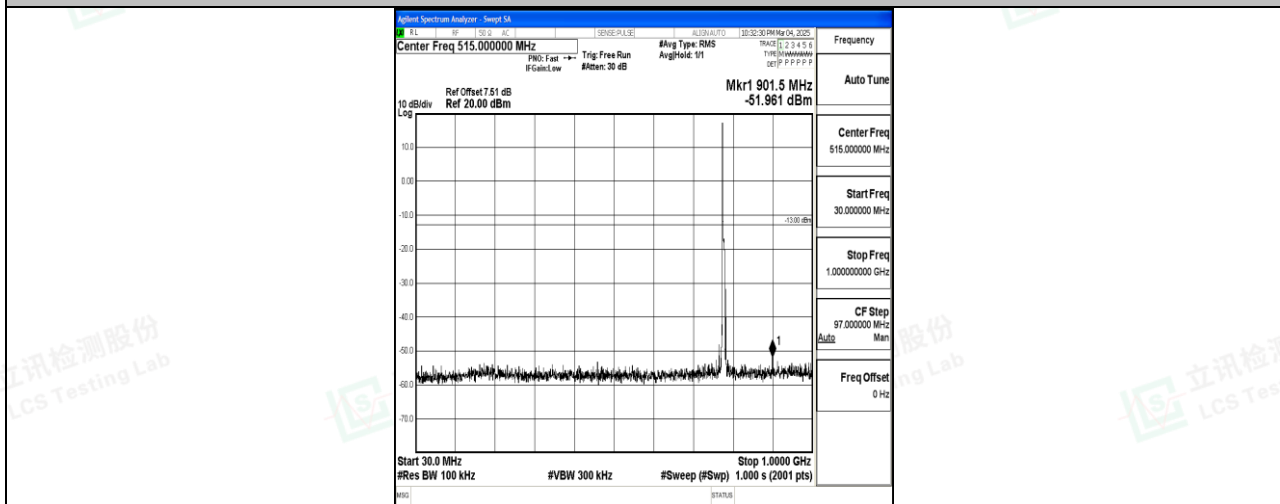
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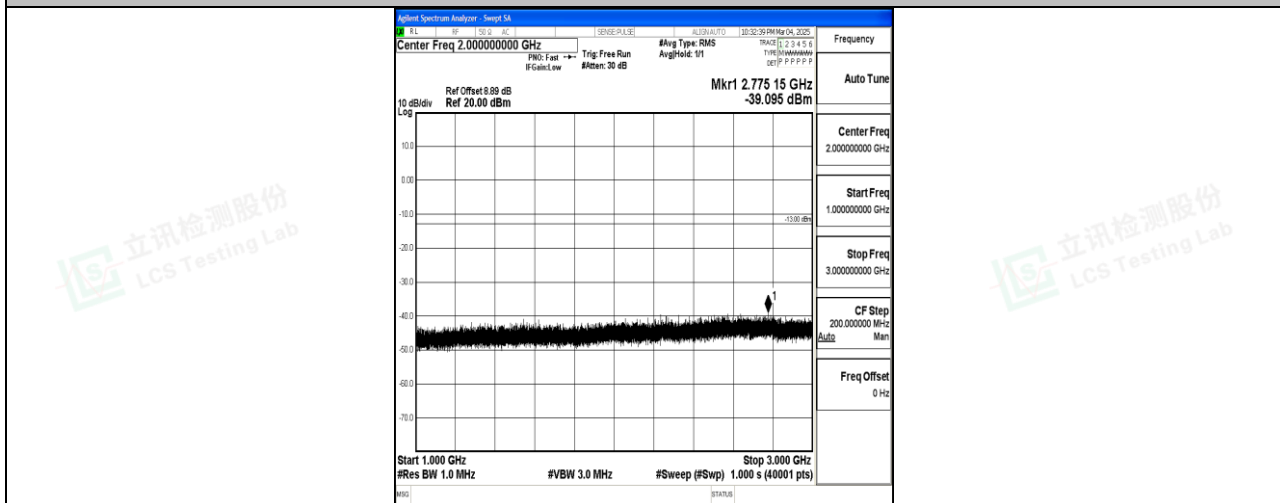




Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30

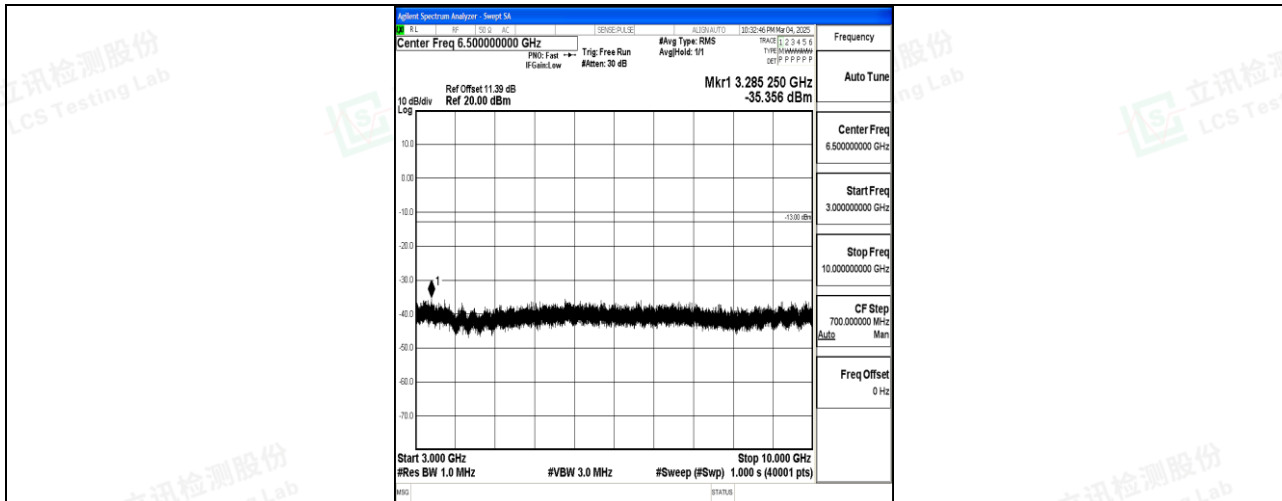


Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000

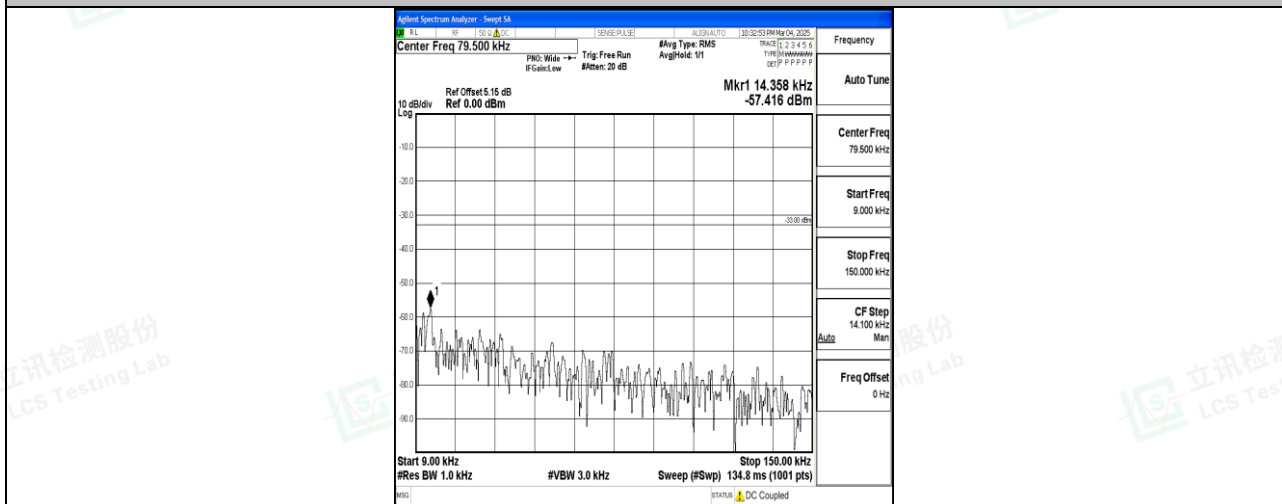


Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000~3000

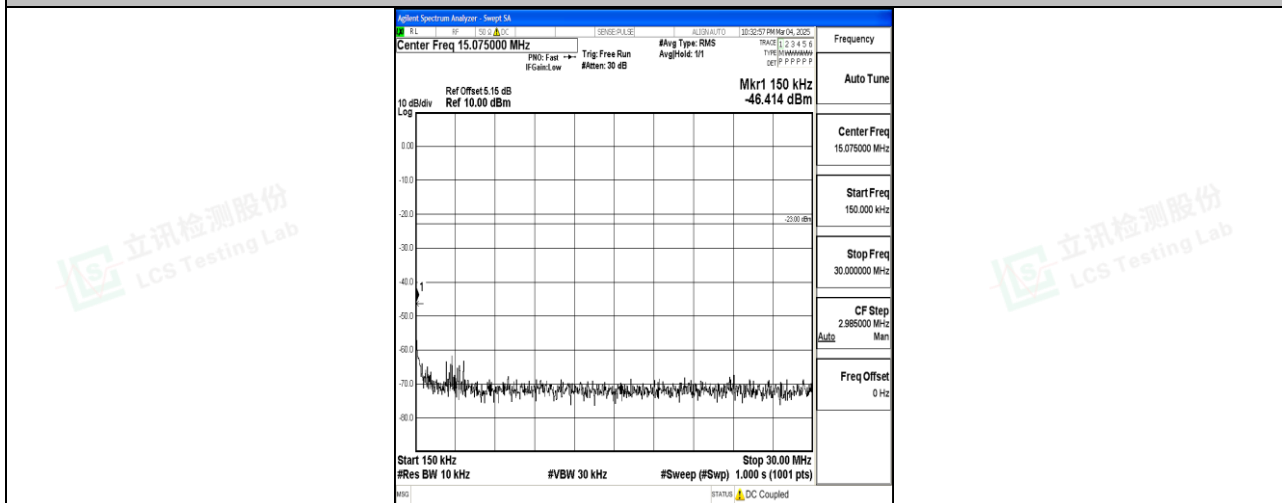




Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

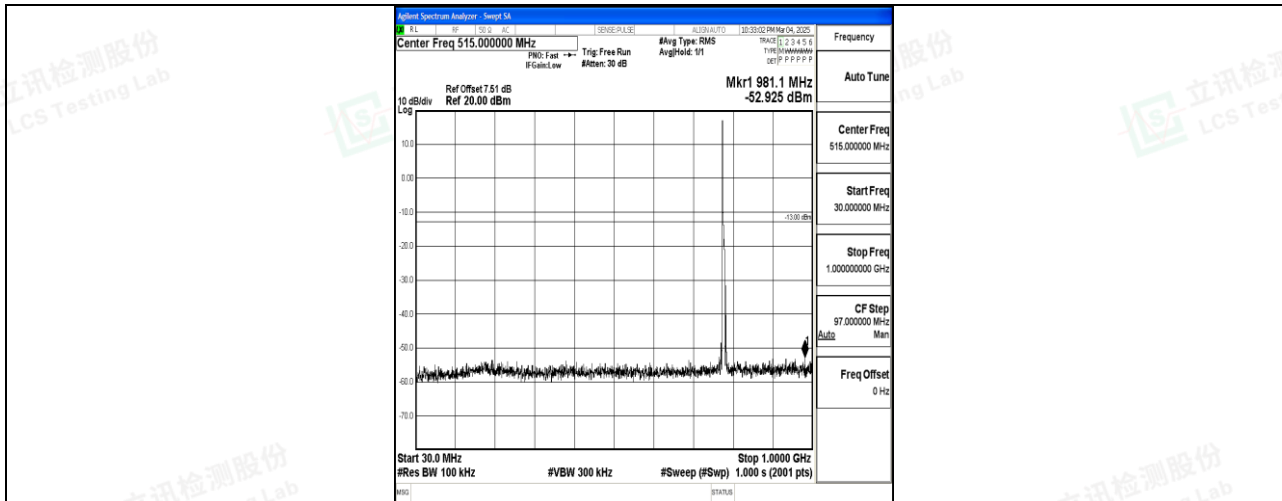


Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15

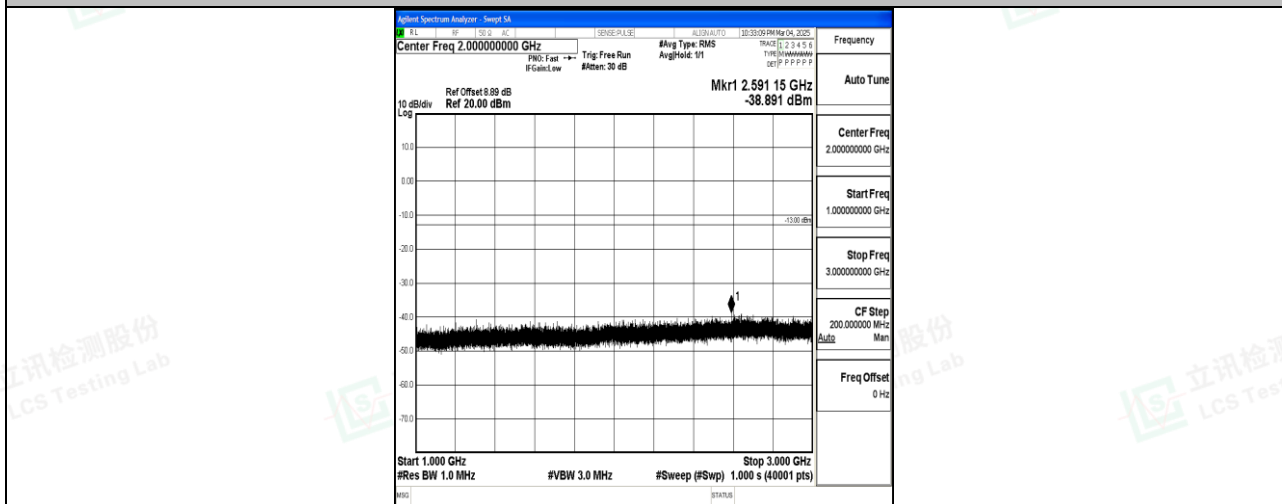


Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

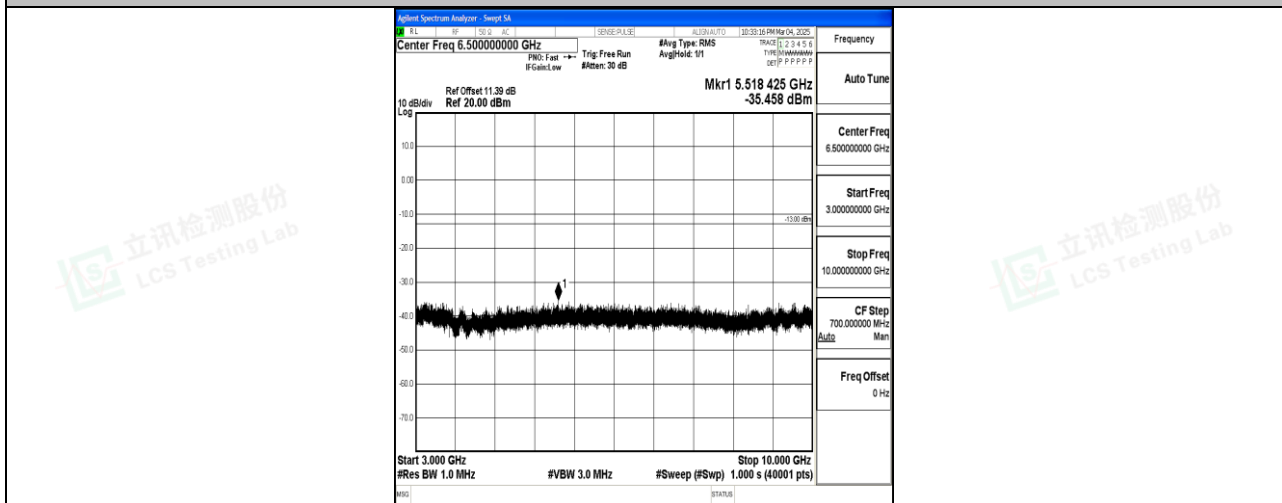




Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000

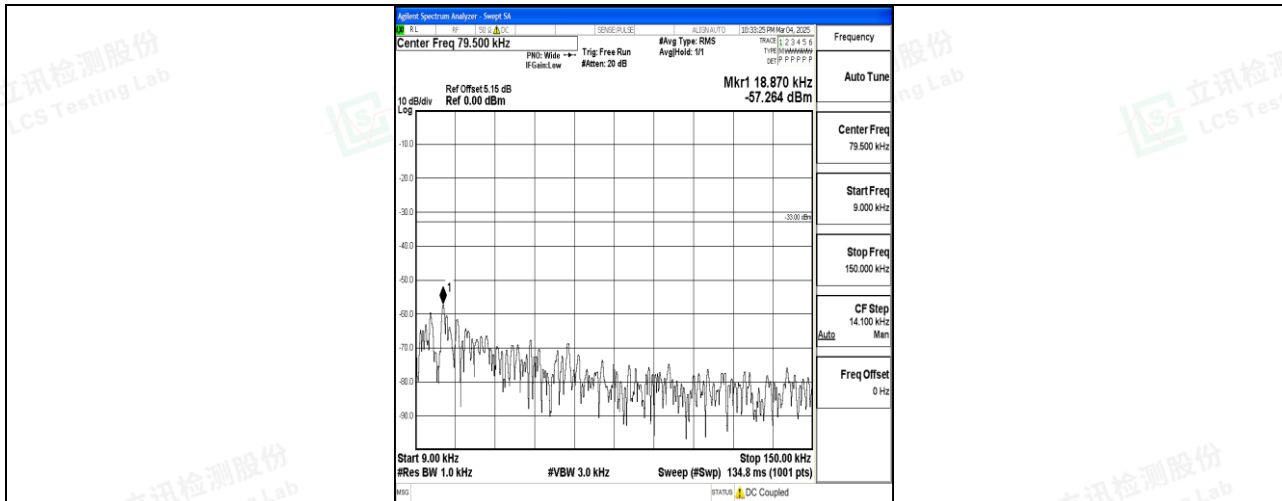


Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

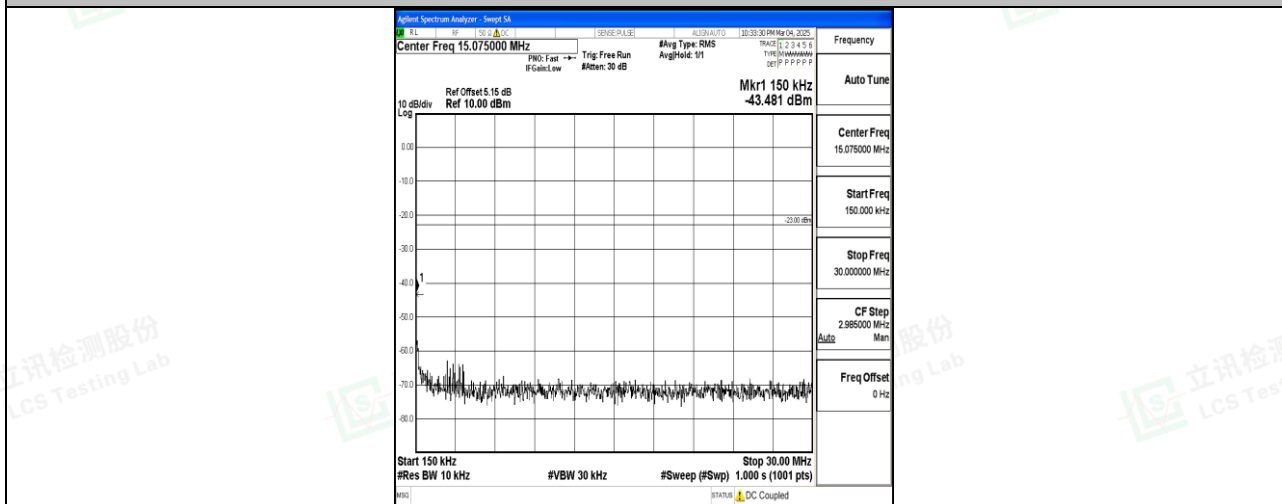


Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

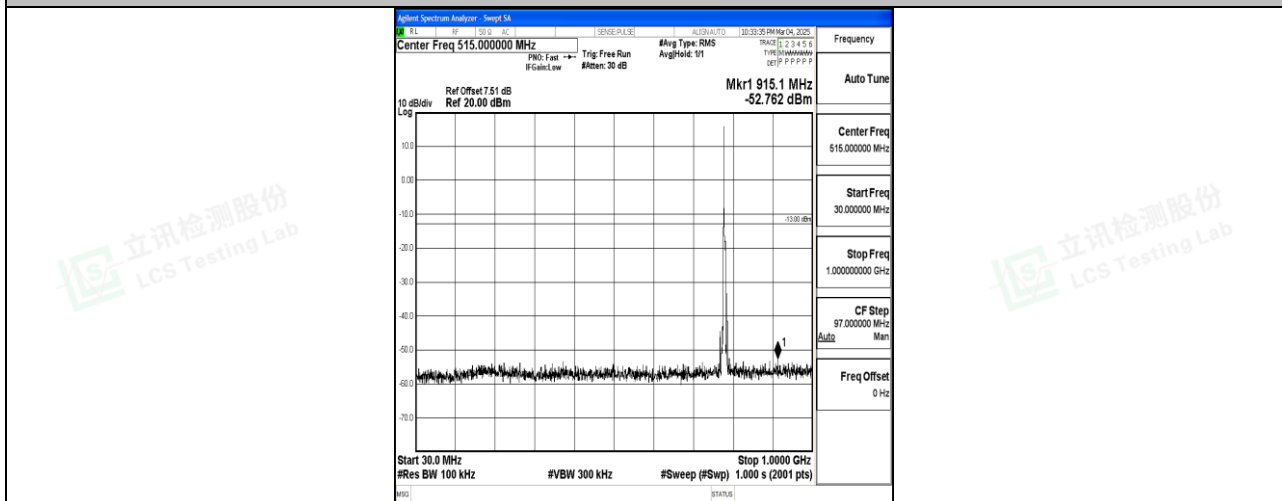




Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15

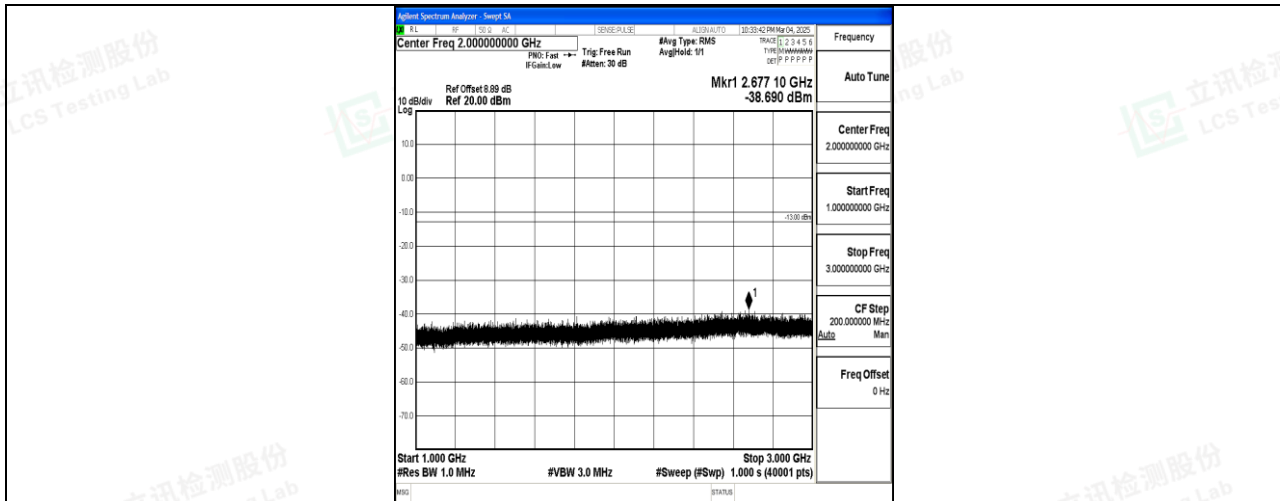


Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30

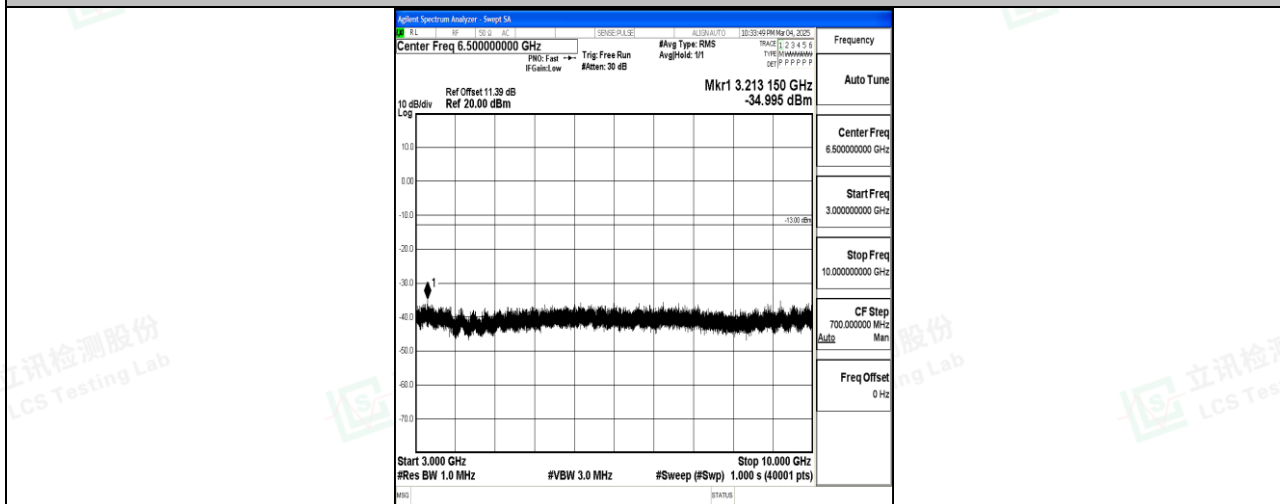


Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

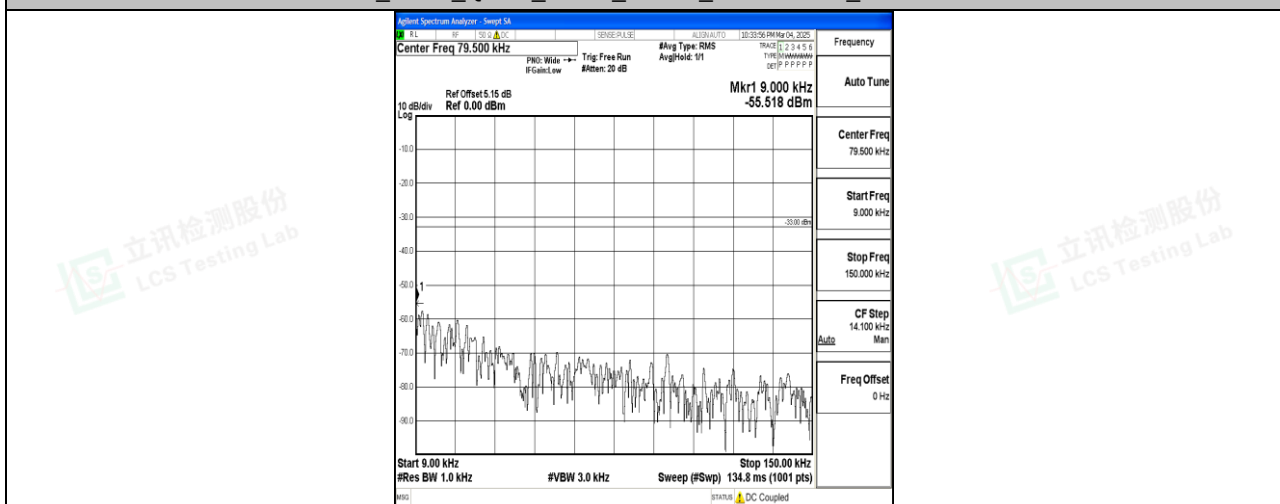




Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000

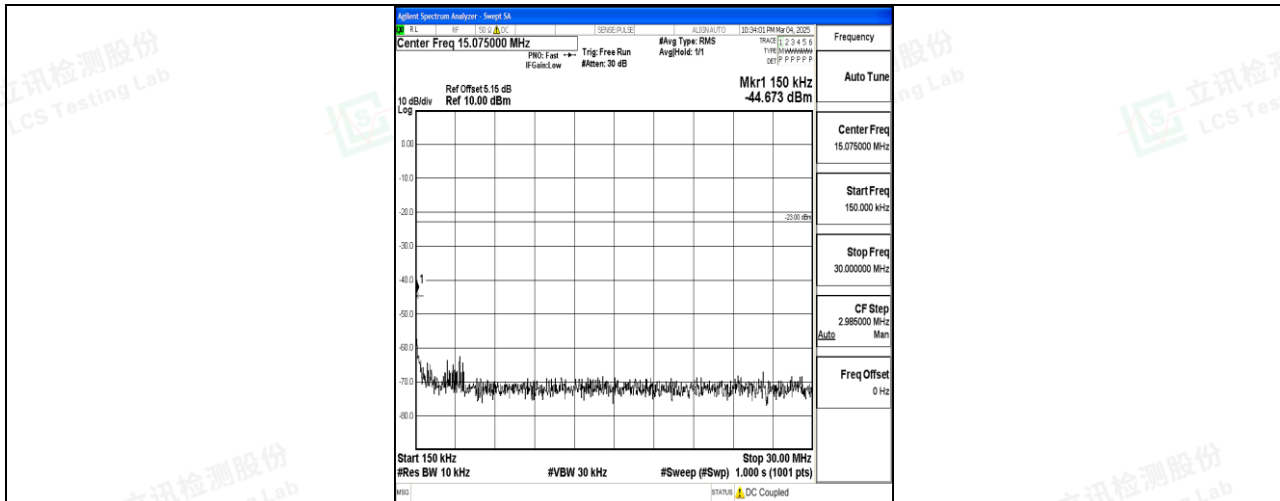


Band13_5MHz_QPSK_23255_1RB#0_3000~10000_3000~10000

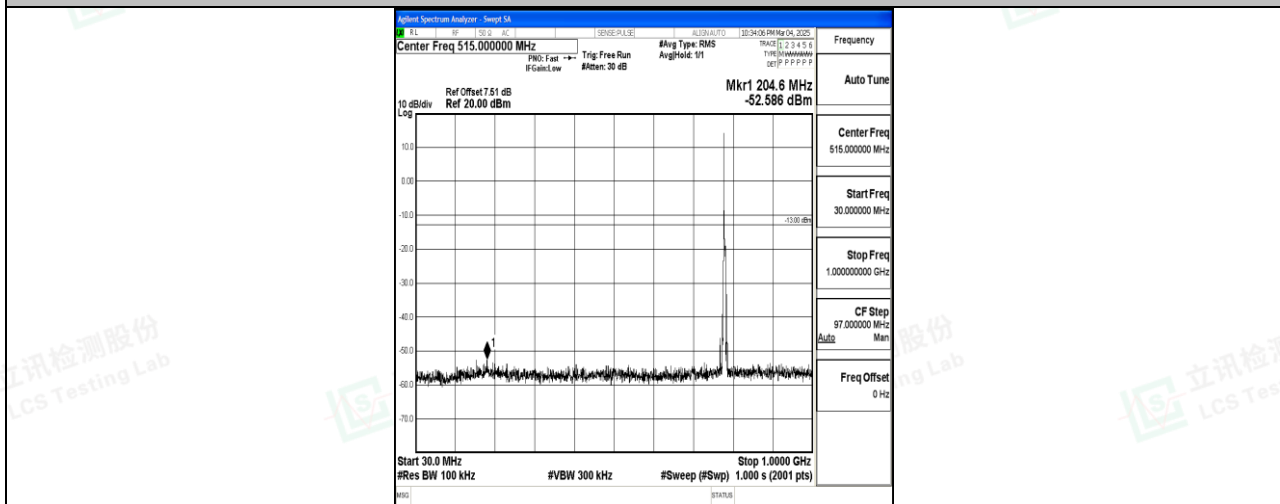


Band13_5MHz_16QAM_23255_1RB#0_0.009~0.15_0.009~0.15

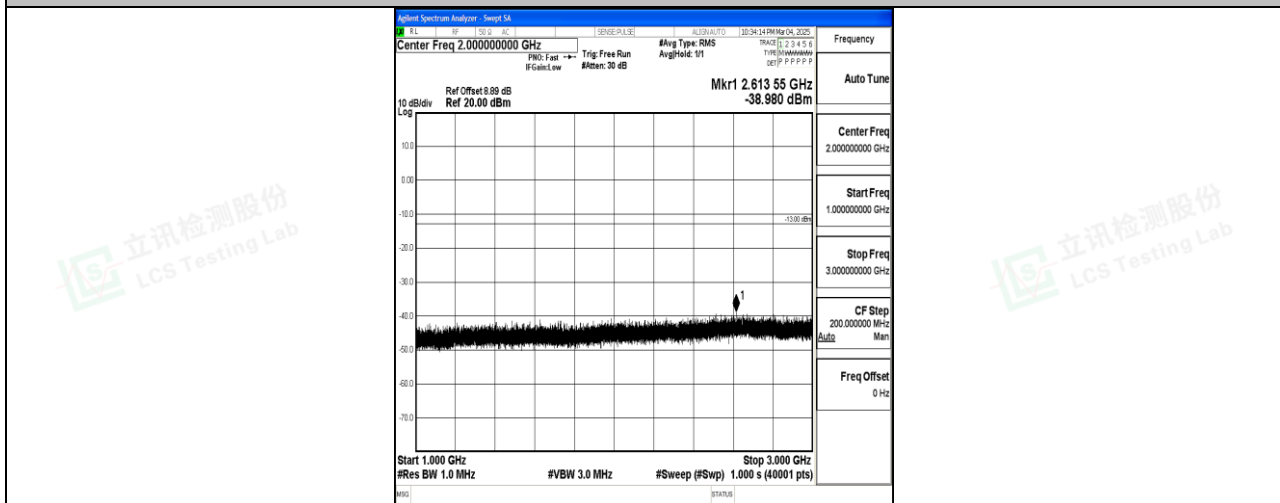




Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30

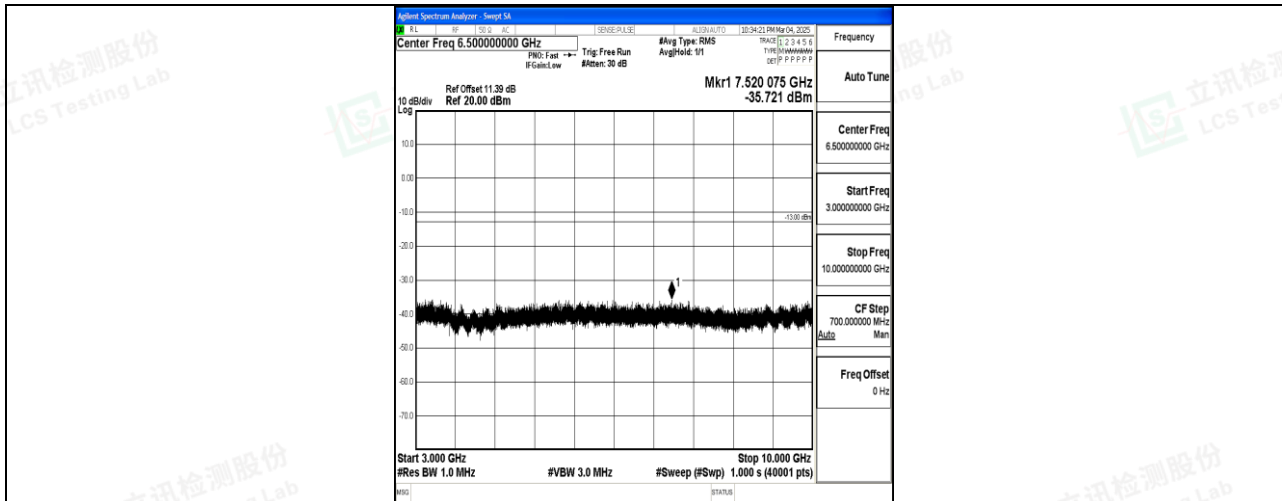


Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~1000

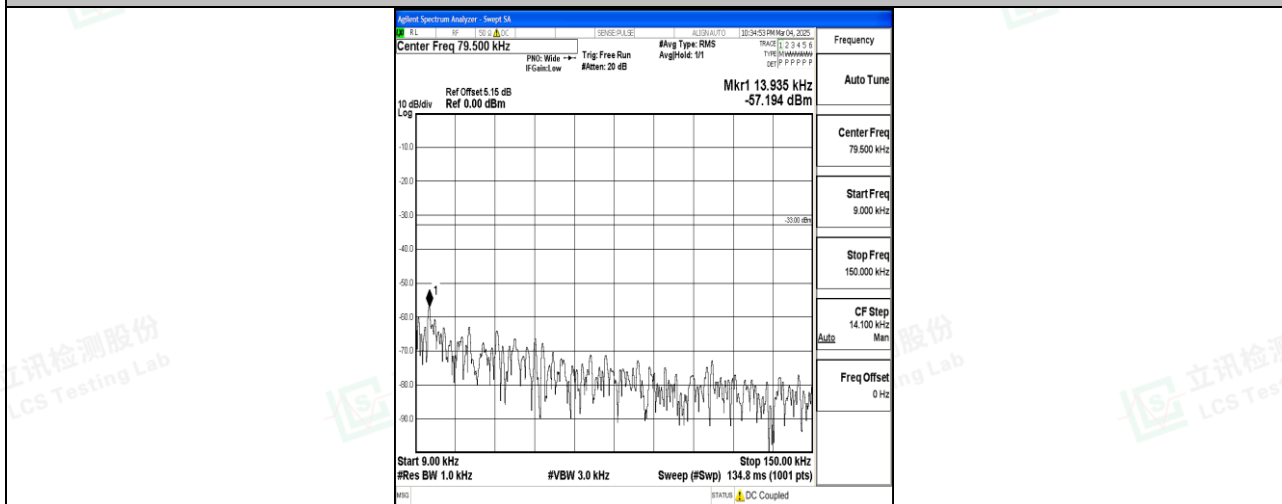


Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000

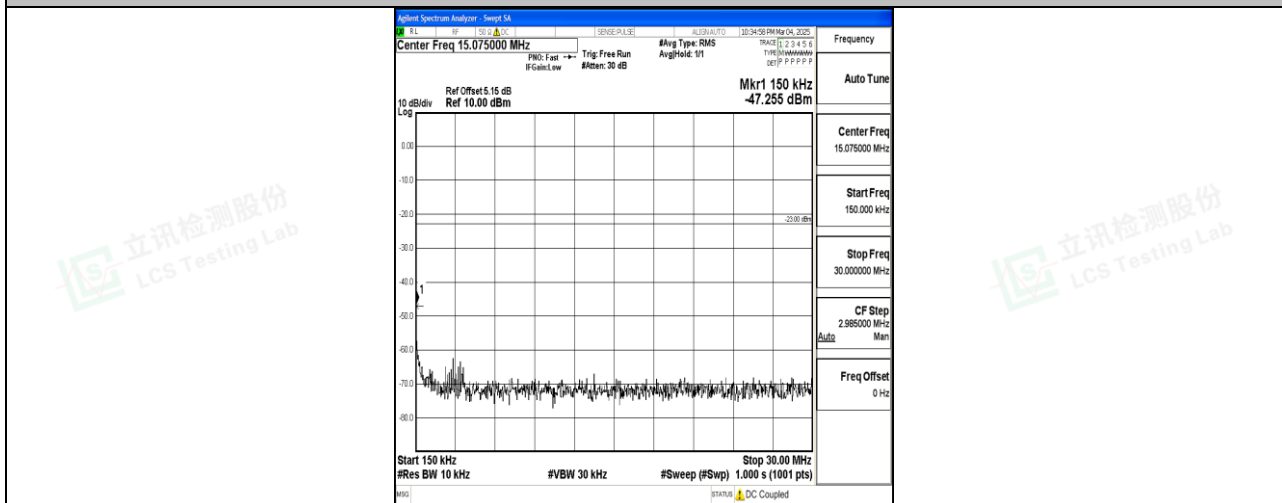




Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000

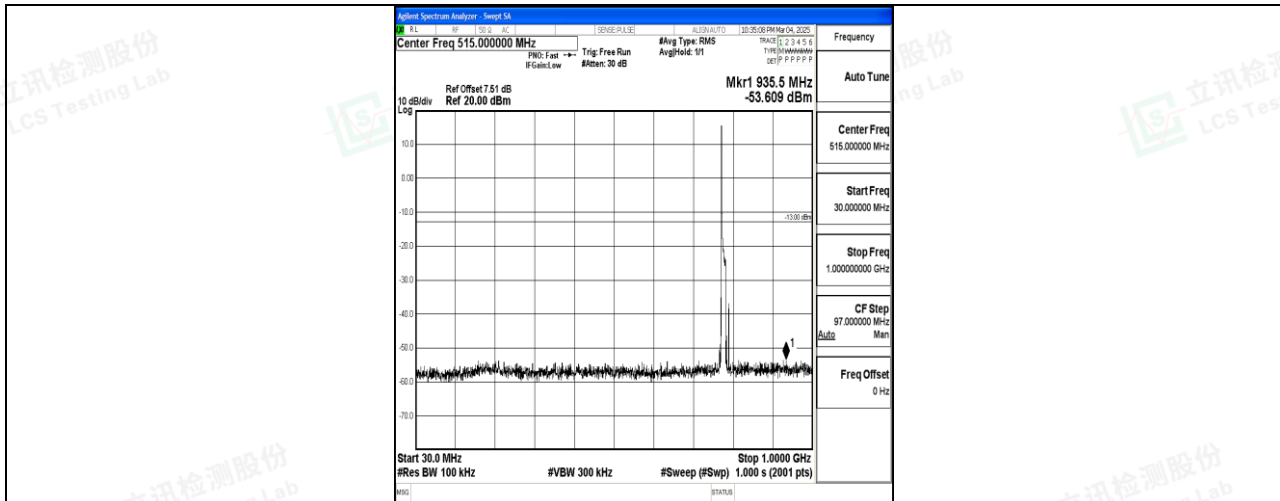


Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15

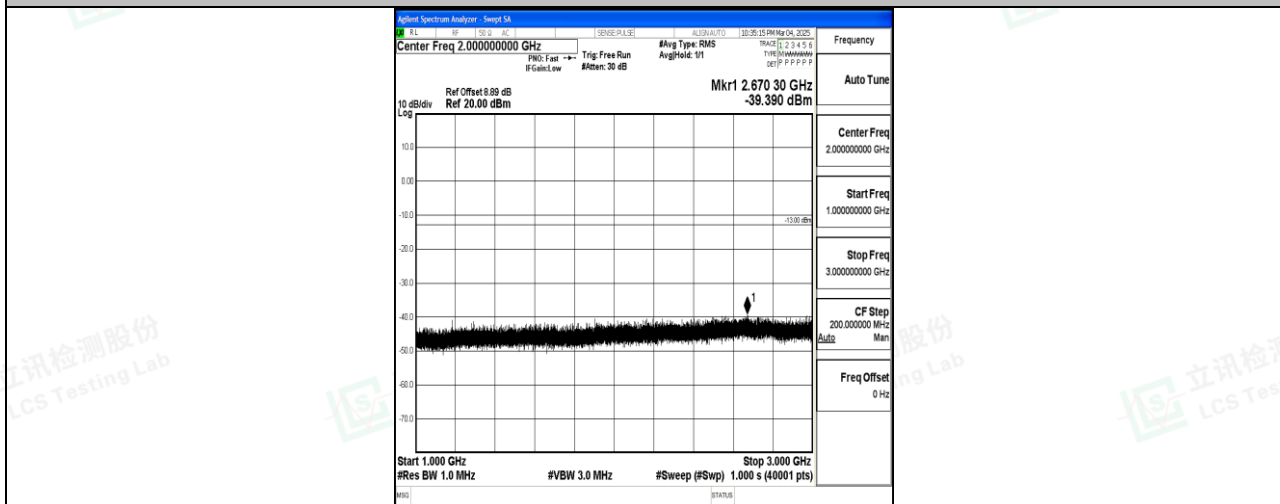


Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30

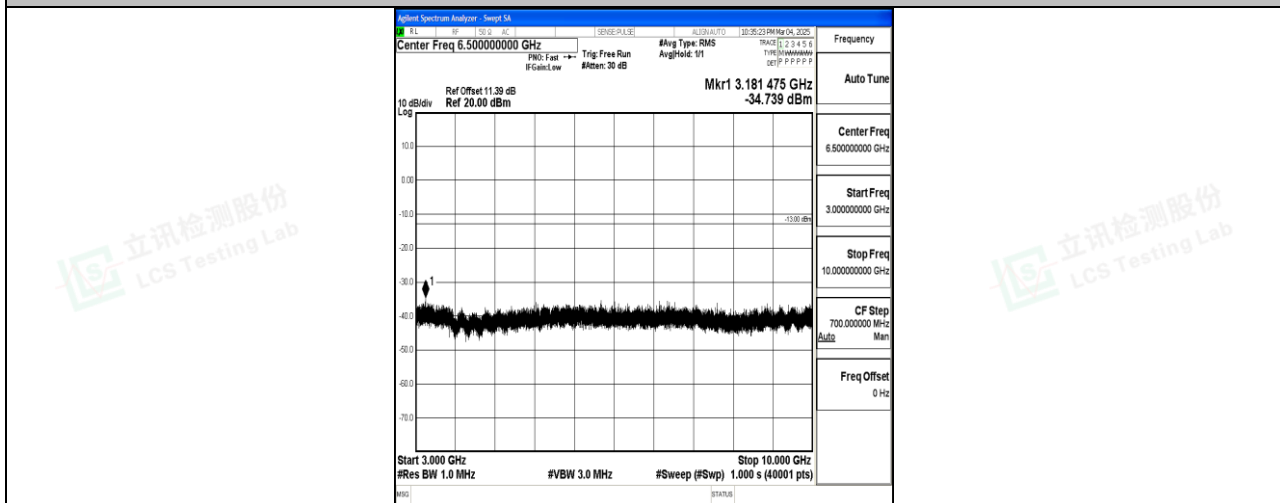




Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000

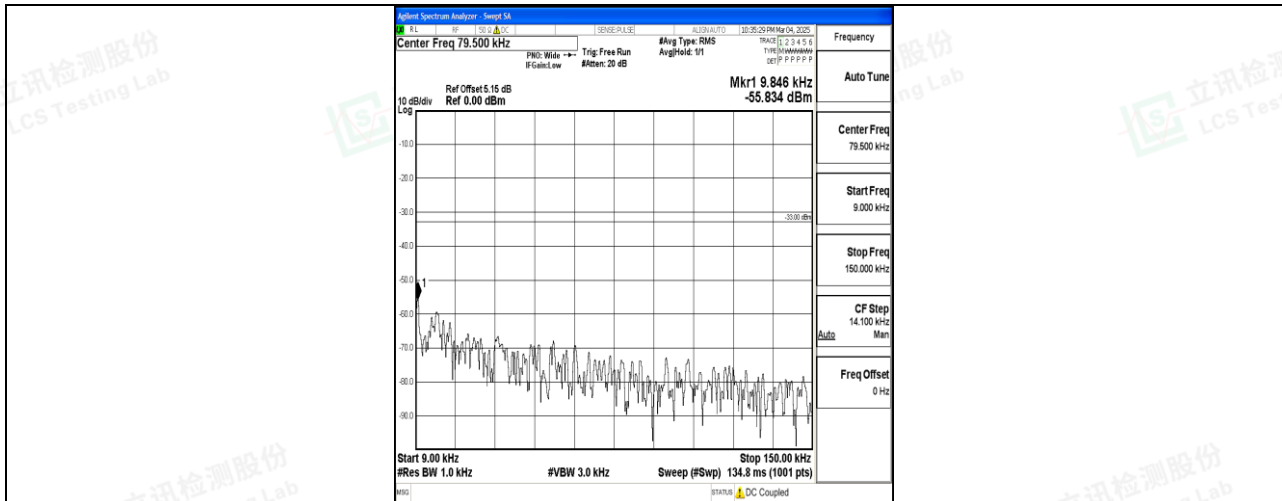


Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000

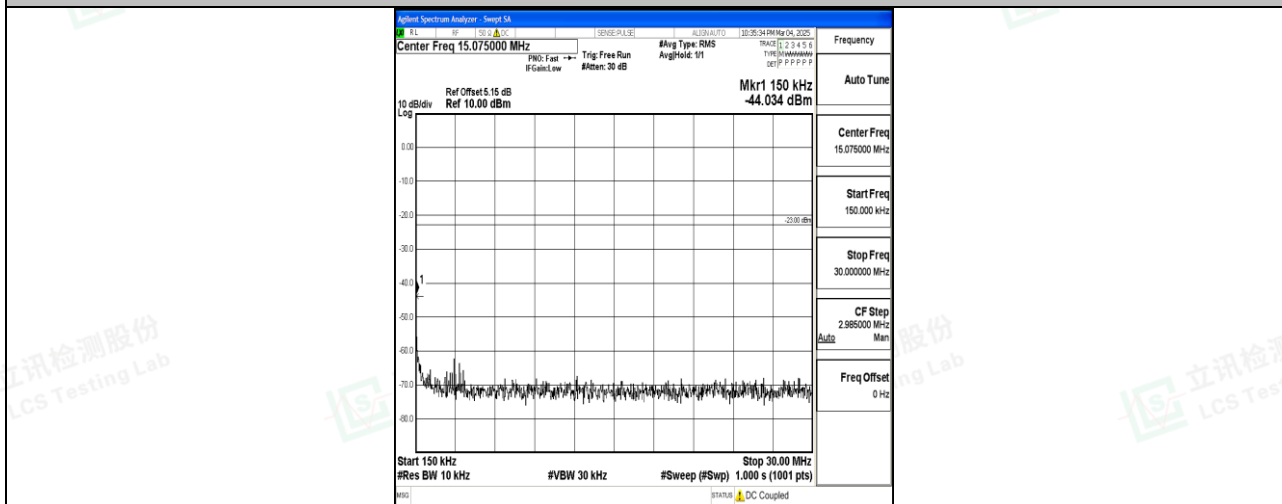


Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

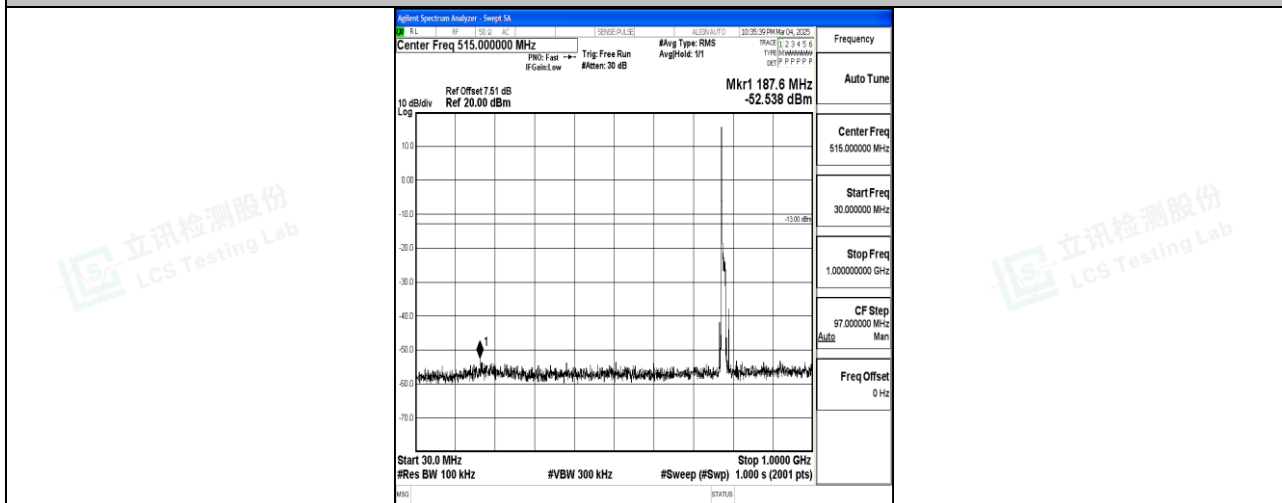




Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15

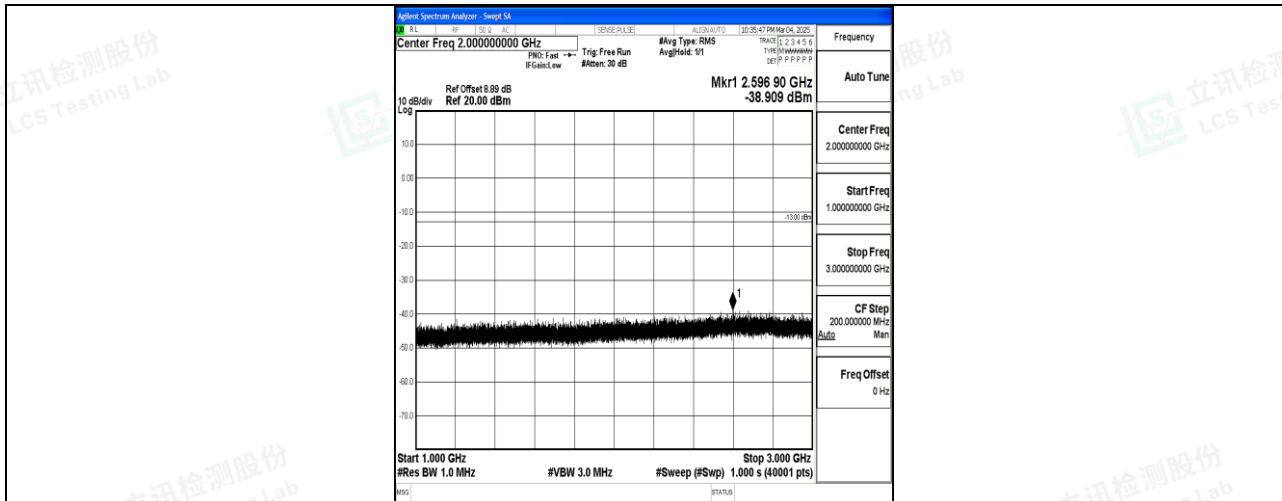


Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30

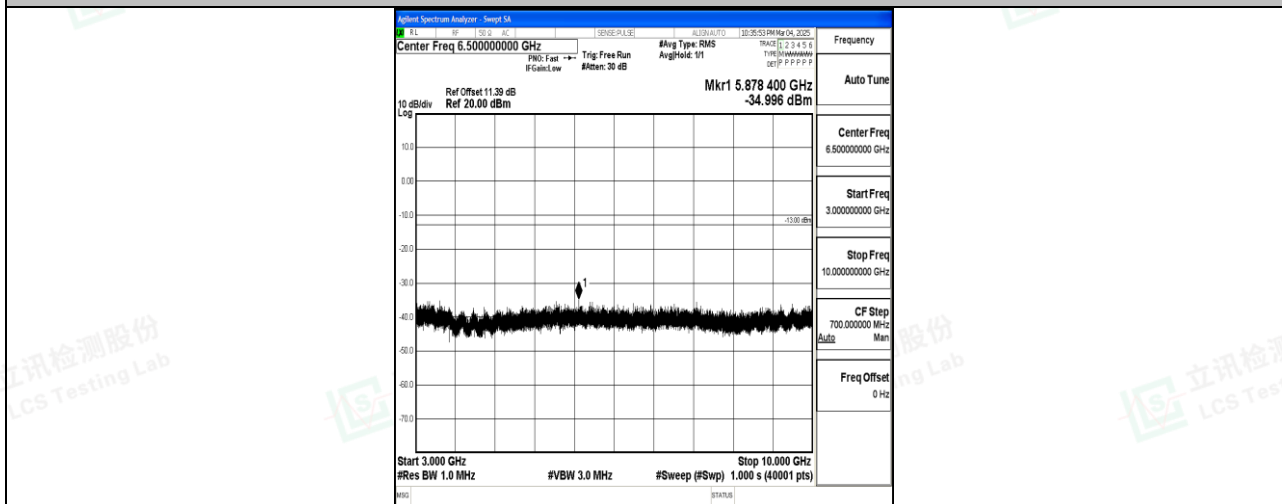


Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000





Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

