



Appendix G: Test Data for E-UTRA Band 13

Product Name: Global Powerbank WiFi

Test Model: P1

Environmental Conditions

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



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



G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	26.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	24.80	PASS
Band13	5MHz	QPSK	23205	1RB#12	26.13	PASS
Band13	5MHz	16QAM	23205	1RB#12	24.69	PASS
Band13	5MHz	QPSK	23205	1RB#24	26.06	PASS
Band13	5MHz	16QAM	23205	1RB#24	24.60	PASS
Band13	5MHz	QPSK	23205	12RB#0	24.98	PASS
Band13	5MHz	16QAM	23205	12RB#0	24.28	PASS
Band13	5MHz	QPSK	23205	12RB#6	24.91	PASS
Band13	5MHz	16QAM	23205	12RB#6	24.29	PASS
Band13	5MHz	QPSK	23205	12RB#13	25.02	PASS
Band13	5MHz	16QAM	23205	12RB#13	23.85	PASS
Band13	5MHz	QPSK	23205	25RB#0	25.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	23.99	PASS
Band13	5MHz	QPSK	23230	1RB#0	25.97	PASS
Band13	5MHz	16QAM	23230	1RB#0	24.25	PASS
Band13	5MHz	QPSK	23230	1RB#12	26.06	PASS
Band13	5MHz	16QAM	23230	1RB#12	24.33	PASS
Band13	5MHz	QPSK	23230	1RB#24	25.86	PASS
Band13	5MHz	16QAM	23230	1RB#24	24.25	PASS
Band13	5MHz	QPSK	23230	12RB#0	24.98	PASS
Band13	5MHz	16QAM	23230	12RB#0	23.91	PASS
Band13	5MHz	QPSK	23230	12RB#6	24.95	PASS
Band13	5MHz	16QAM	23230	12RB#6	23.91	PASS
Band13	5MHz	QPSK	23230	12RB#13	24.88	PASS
Band13	5MHz	16QAM	23230	12RB#13	23.95	PASS
Band13	5MHz	QPSK	23230	25RB#0	24.95	PASS
Band13	5MHz	16QAM	23230	25RB#0	23.98	PASS
Band13	5MHz	QPSK	23255	1RB#0	25.97	PASS
Band13	5MHz	16QAM	23255	1RB#0	24.94	PASS
Band13	5MHz	QPSK	23255	1RB#12	26.00	PASS
Band13	5MHz	16QAM	23255	1RB#12	24.86	PASS
Band13	5MHz	QPSK	23255	1RB#24	25.94	PASS
Band13	5MHz	16QAM	23255	1RB#24	24.92	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	5MHz	QPSK	23255	12RB#0	24.97	PASS
Band13	5MHz	16QAM	23255	12RB#0	24.01	PASS
Band13	5MHz	QPSK	23255	12RB#6	24.97	PASS
Band13	5MHz	16QAM	23255	12RB#6	24.03	PASS
Band13	5MHz	QPSK	23255	12RB#13	24.81	PASS
Band13	5MHz	16QAM	23255	12RB#13	24.35	PASS
Band13	5MHz	QPSK	23255	25RB#0	24.98	PASS
Band13	5MHz	16QAM	23255	25RB#0	23.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	25.94	PASS
Band13	10MHz	16QAM	23230	1RB#0	24.62	PASS
Band13	10MHz	QPSK	23230	1RB#24	25.95	PASS
Band13	10MHz	16QAM	23230	1RB#24	24.57	PASS
Band13	10MHz	QPSK	23230	1RB#49	25.91	PASS
Band13	10MHz	16QAM	23230	1RB#49	24.57	PASS
Band13	10MHz	QPSK	23230	25RB#0	25.06	PASS
Band13	10MHz	16QAM	23230	25RB#0	23.90	PASS
Band13	10MHz	QPSK	23230	25RB#12	25.01	PASS
Band13	10MHz	16QAM	23230	25RB#12	23.92	PASS
Band13	10MHz	QPSK	23230	25RB#25	24.93	PASS
Band13	10MHz	16QAM	23230	25RB#25	24.05	PASS
Band13	10MHz	QPSK	23230	50RB#0	25.07	PASS
Band13	10MHz	16QAM	23230	50RB#0	23.91	PASS





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

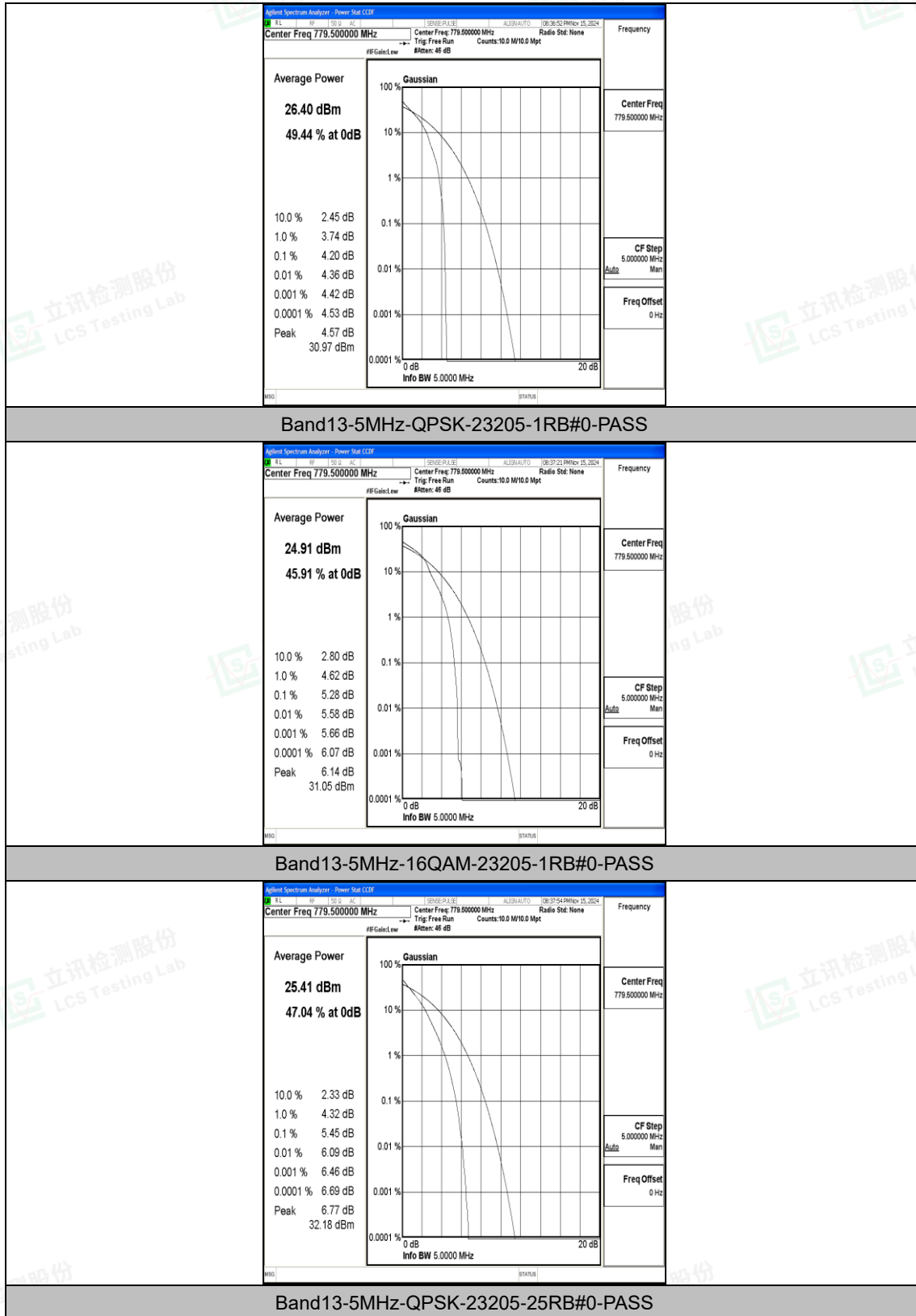
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.20	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.28	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.45	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.13	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.85	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.61	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.53	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.22	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.78	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.67	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.37	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.10	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.26	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.08	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.50	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.21	13	PASS





Test Graphs



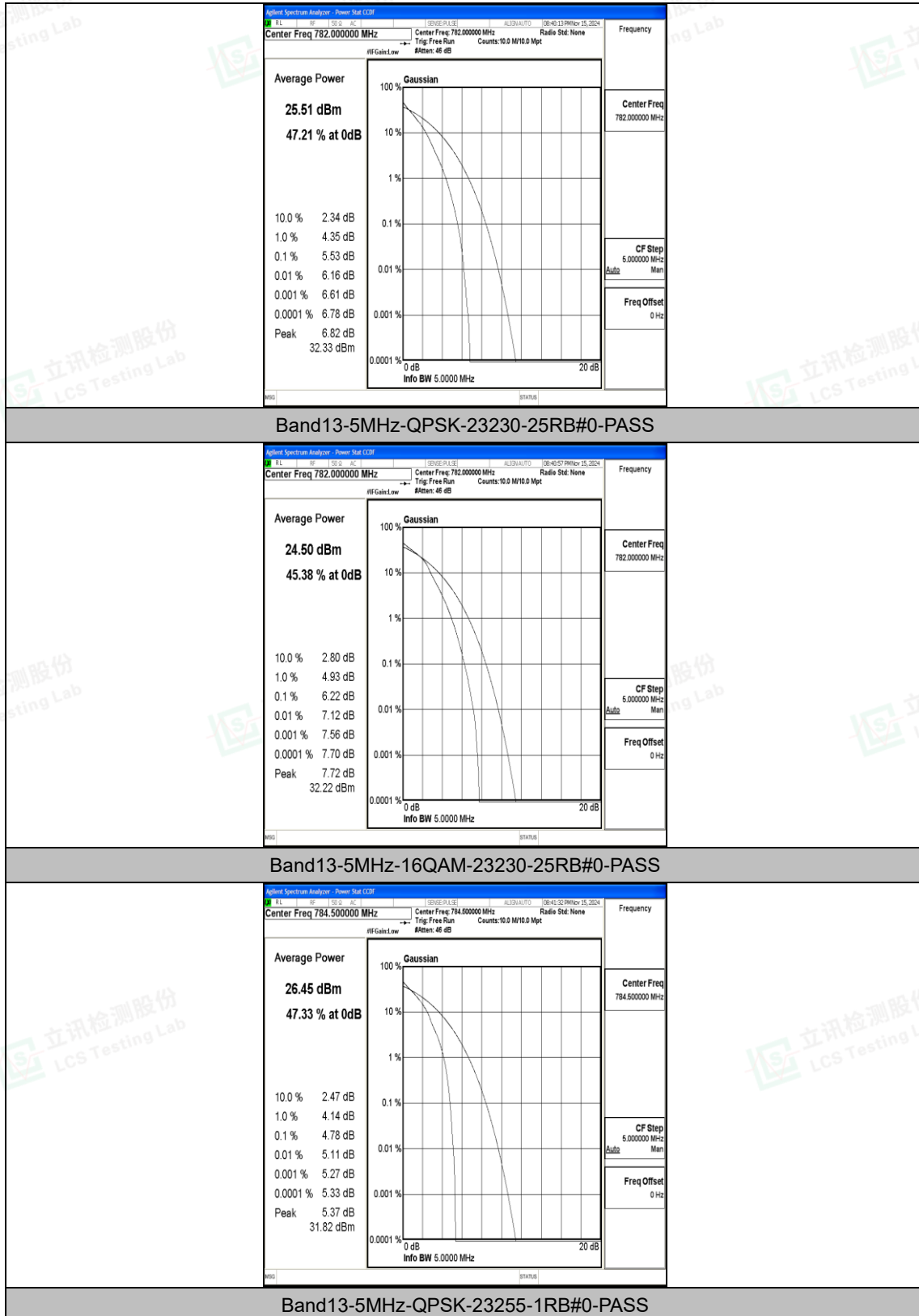
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

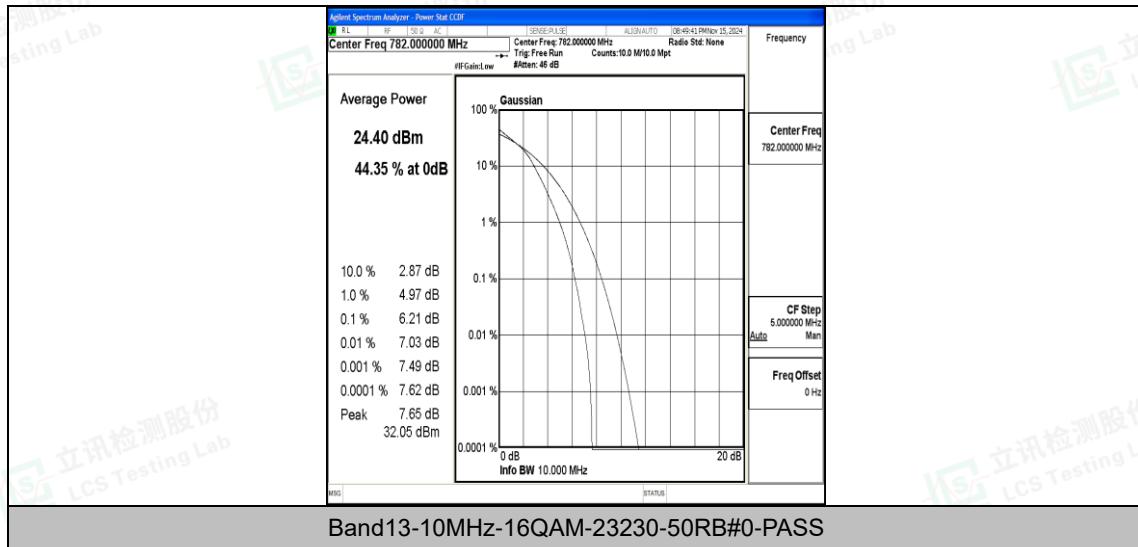
Scan code to check authenticity













G.3 26dB Bandwidth and Occupied Bandwidth

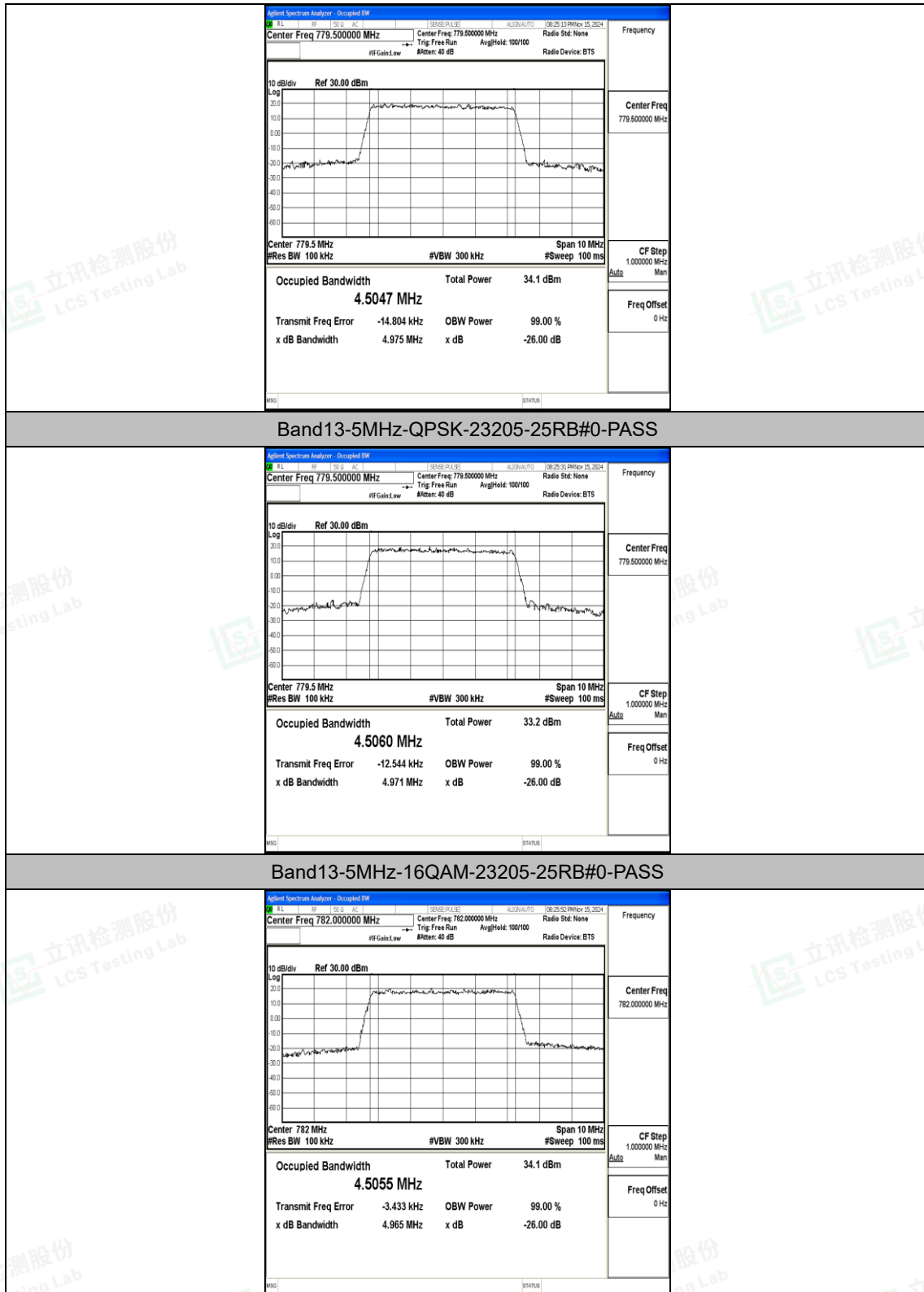
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5047	4.975	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5060	4.971	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5055	4.965	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5153	4.986	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5073	4.954	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5080	4.989	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0247	9.902	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0248	9.961	PASS



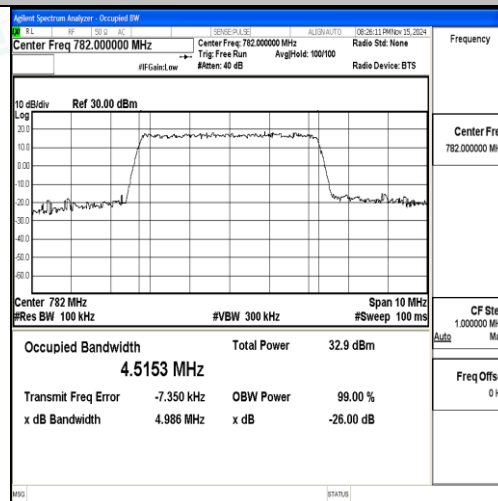


Test Graphs

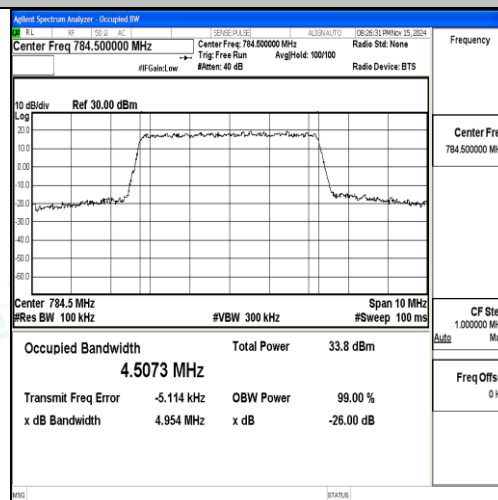




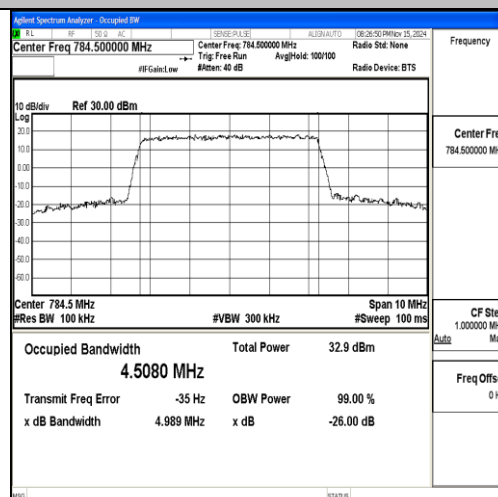
Band13-5MHz-QPSK-23230-25RB#0-PASS



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



Band13-5MHz-QPSK-23255-25RB#0-PASS



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



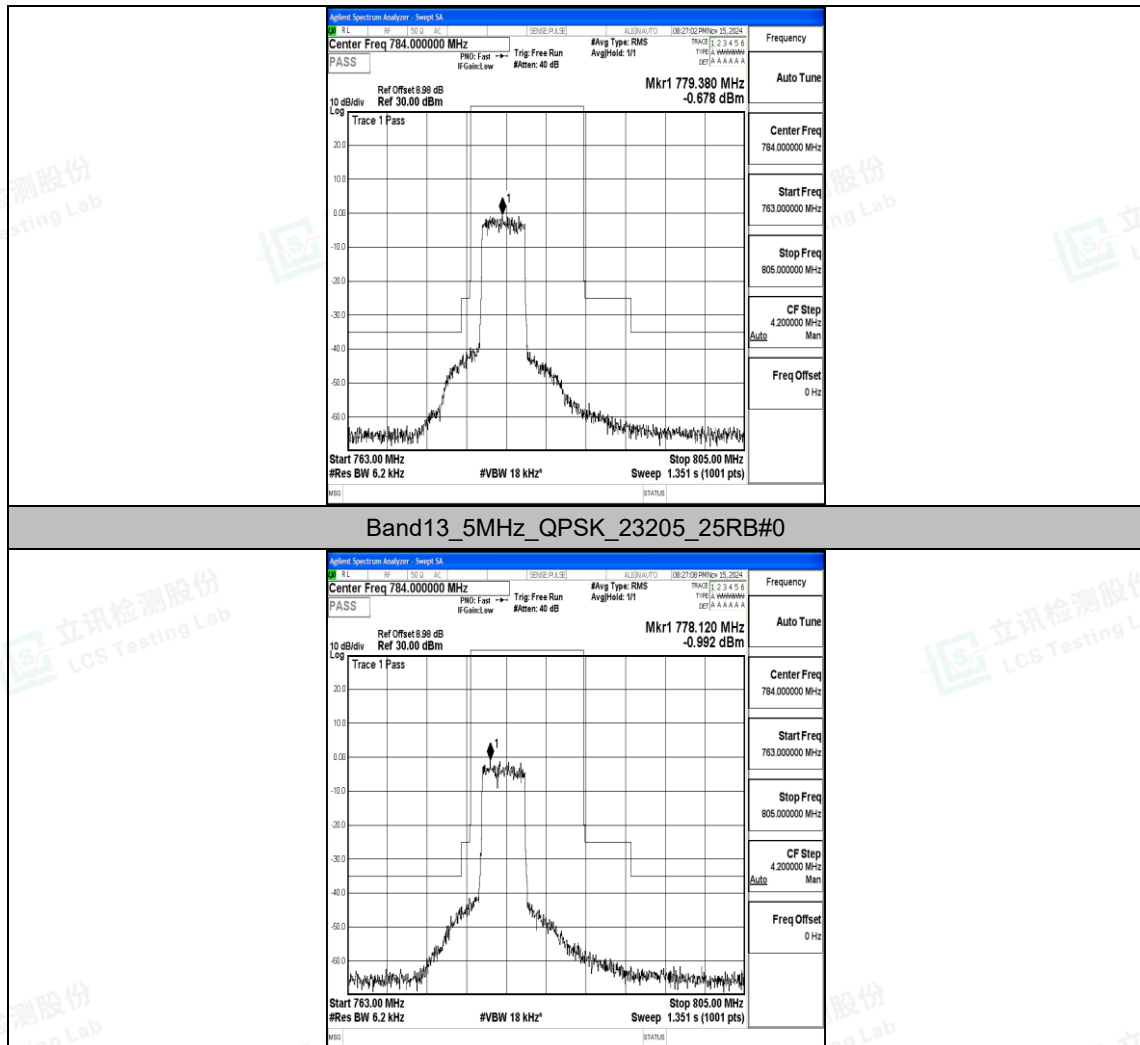


G.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.93	-43.28	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.89	-44.49	PASS
Band13	5MHz	QPSK	23255	25RB#0	788.41	-38.19	PASS
Band13	5MHz	16QAM	23255	25RB#0	788.41	-39.68	PASS
Band13	10MHz	QPSK	23230	50RB#0	774.89	-45.29	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.51	-47.53	PASS

Test Graphs



Shenzhen LCS Compliance Testing Laboratory Ltd.

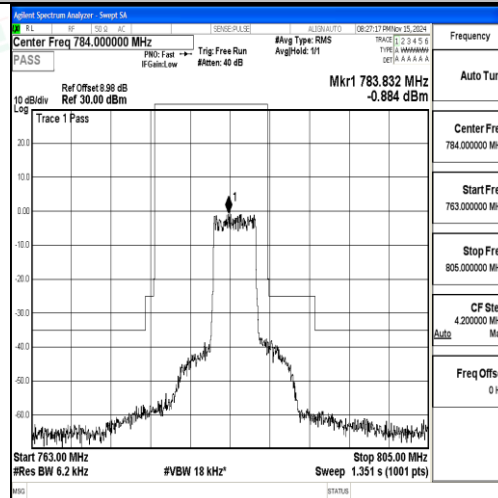
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

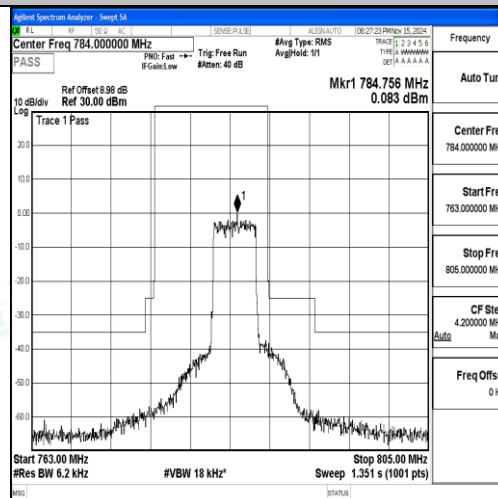
Scan code to check authenticity



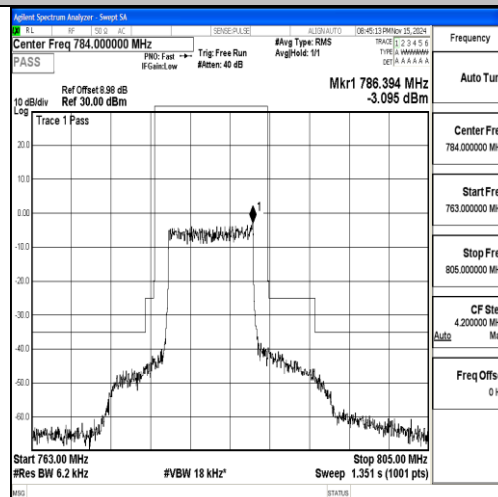
Band13_5MHz_16QAM_23205_25RB#0



Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0

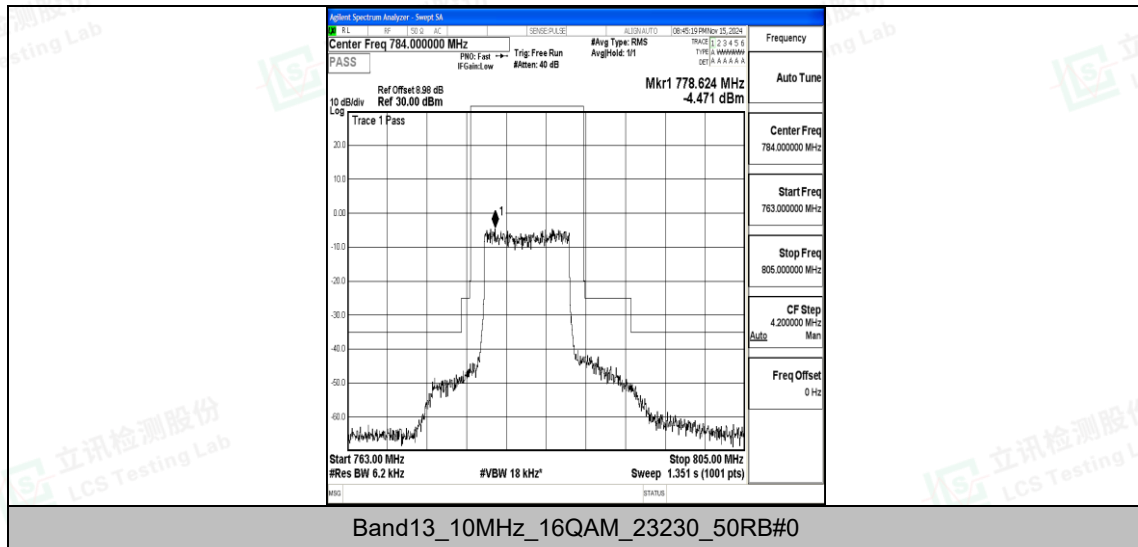


Shenzhen LCS Compliance Testing Laboratory Ltd.

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





G.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	-54.13	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-49.25	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-59.81	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-39.21	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-42.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-54.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-51.02	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-59.93	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-38.78	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-41.50	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.13	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-50.94	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-59.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.88	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-41.80	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-56.11	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-51.88	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-60.04	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-40.01	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-42.43	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-55.91	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-50.79	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-59.94	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-40.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-41.88	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-57.22	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-49.21	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-59.85	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-40.43	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-42.16	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-54.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-50.21	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-59.97	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

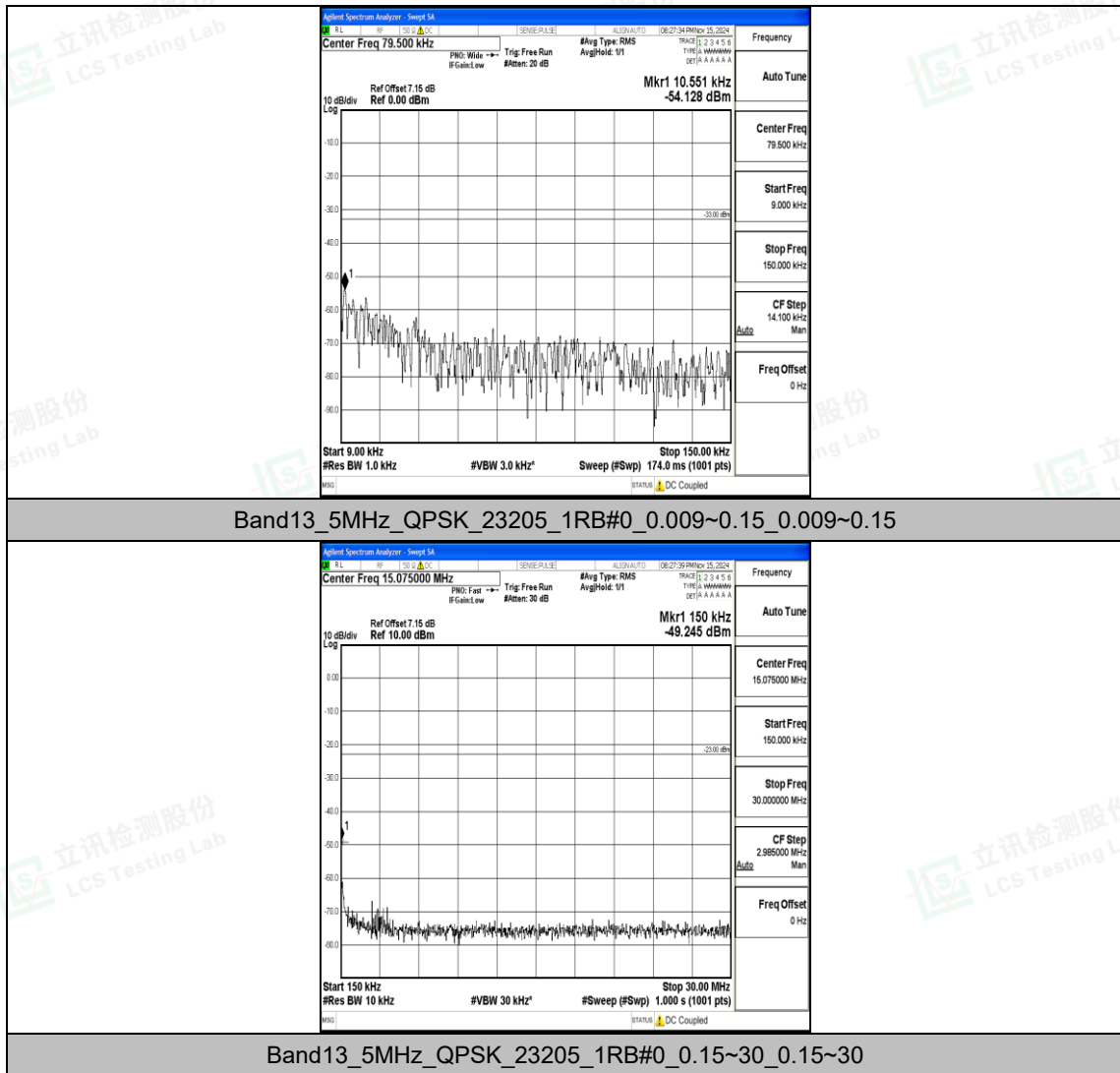
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

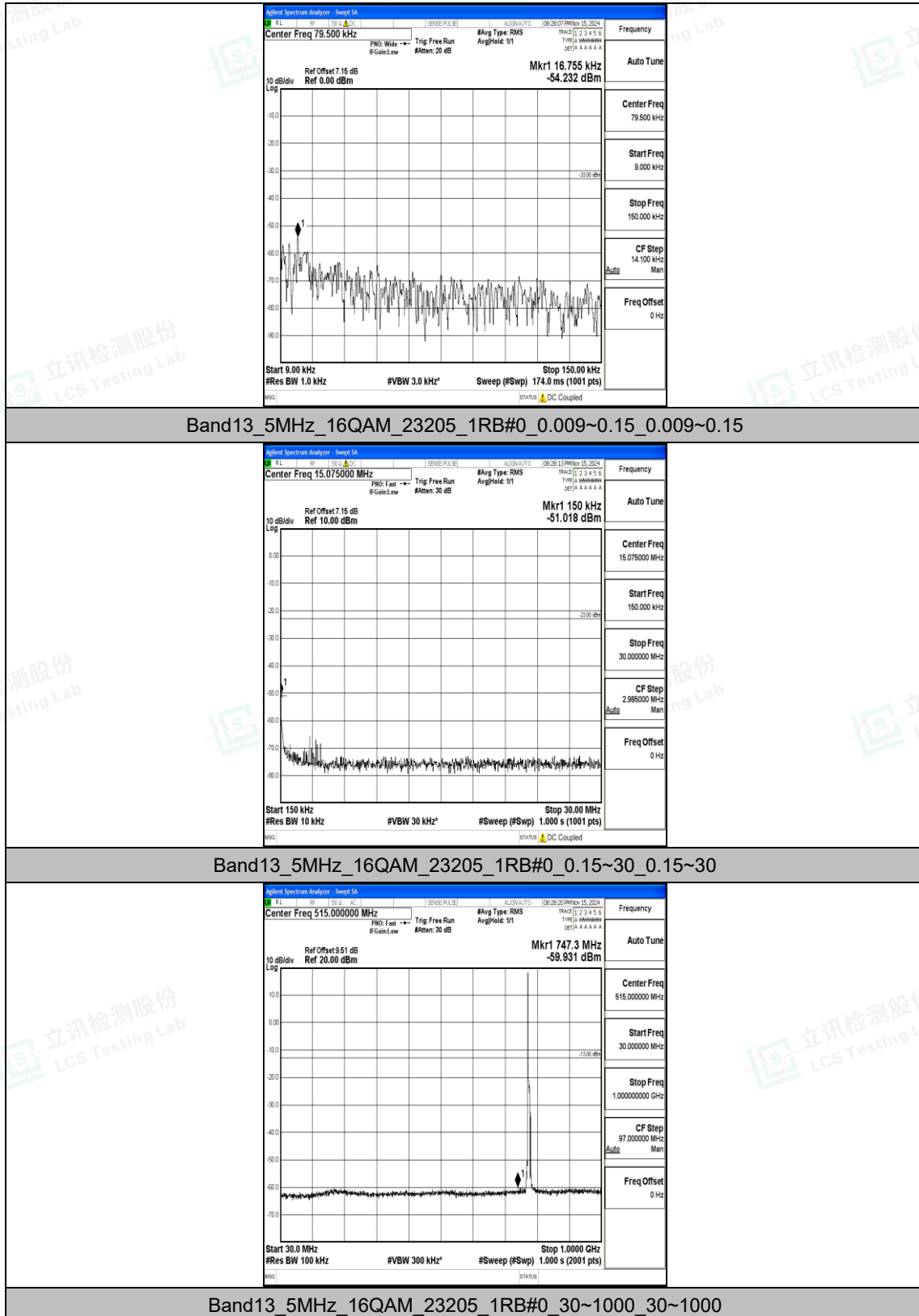


Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-37.39	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-42.10	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-56.30	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-49.45	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-60.07	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-38.02	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-42.15	PASS

Test Graphs







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

