



## Appendix L: Test Data for E-UTRA Band 14

Product Name: SFO1

Test Model: SFO1

### Environmental Conditions

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





## L.1 Conducted Output Power Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	22.57	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.48	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.59	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.49	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.55	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.43	PASS
Band14	5MHz	QPSK	23305	12RB#0	21.46	PASS
Band14	5MHz	16QAM	23305	12RB#0	20.43	PASS
Band14	5MHz	QPSK	23305	12RB#6	21.47	PASS
Band14	5MHz	16QAM	23305	12RB#6	20.43	PASS
Band14	5MHz	QPSK	23305	12RB#13	21.43	PASS
Band14	5MHz	16QAM	23305	12RB#13	20.32	PASS
Band14	5MHz	QPSK	23305	25RB#0	21.38	PASS
Band14	5MHz	16QAM	23305	25RB#0	20.51	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.61	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.56	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.61	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.43	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.50	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.40	PASS
Band14	5MHz	QPSK	23330	12RB#0	21.41	PASS
Band14	5MHz	16QAM	23330	12RB#0	20.40	PASS
Band14	5MHz	QPSK	23330	12RB#6	21.43	PASS
Band14	5MHz	16QAM	23330	12RB#6	20.40	PASS
Band14	5MHz	QPSK	23330	12RB#13	21.43	PASS
Band14	5MHz	16QAM	23330	12RB#13	20.39	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.43	PASS
Band14	5MHz	16QAM	23330	25RB#0	20.40	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.72	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.58	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.51	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.65	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.56	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.57	PASS
Band14	5MHz	QPSK	23355	12RB#0	21.55	PASS
Band14	5MHz	16QAM	23355	12RB#0	20.60	PASS



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 Scan code to check authenticity



Band14	5MHz	QPSK	23355	12RB#6	21.55	PASS
Band14	5MHz	16QAM	23355	12RB#6	20.58	PASS
Band14	5MHz	QPSK	23355	12RB#13	21.54	PASS
Band14	5MHz	16QAM	23355	12RB#13	20.51	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.43	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.41	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.70	PASS
Band14	10MHz	16QAM	23330	1RB#0	21.67	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.47	PASS
Band14	10MHz	16QAM	23330	1RB#24	21.43	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.62	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.58	PASS
Band14	10MHz	QPSK	23330	25RB#0	21.48	PASS
Band14	10MHz	16QAM	23330	25RB#0	20.46	PASS
Band14	10MHz	QPSK	23330	25RB#12	21.50	PASS
Band14	10MHz	16QAM	23330	25RB#12	20.46	PASS
Band14	10MHz	QPSK	23330	25RB#25	21.37	PASS
Band14	10MHz	16QAM	23330	25RB#25	20.32	PASS
Band14	10MHz	QPSK	23330	50RB#0	21.44	PASS
Band14	10MHz	16QAM	23330	50RB#0	20.43	PASS





## L.2 Peak-to-Average Ratio(CCDF)

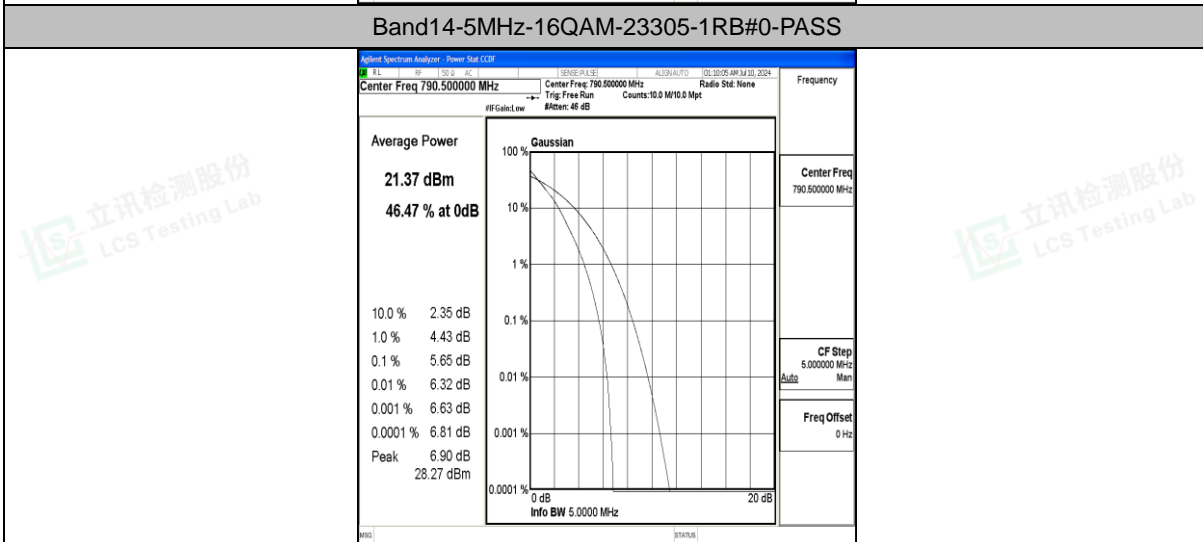
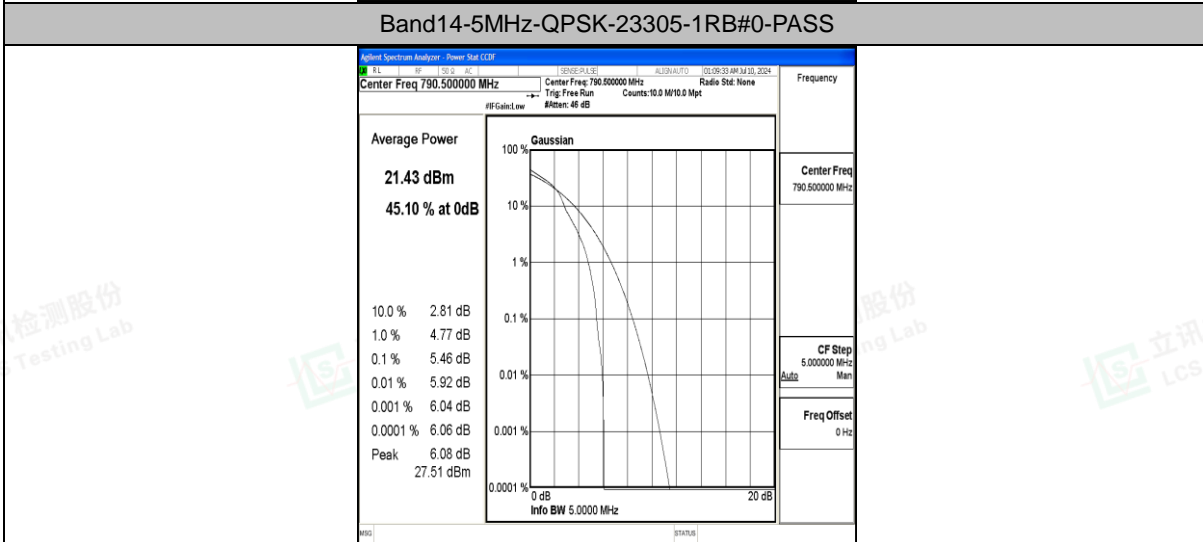
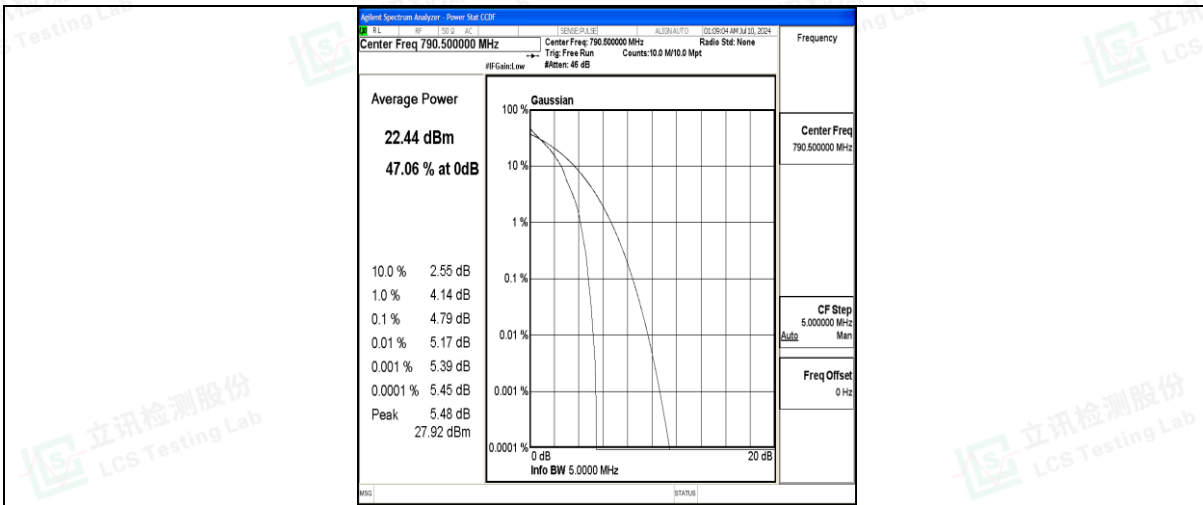
### Test Result

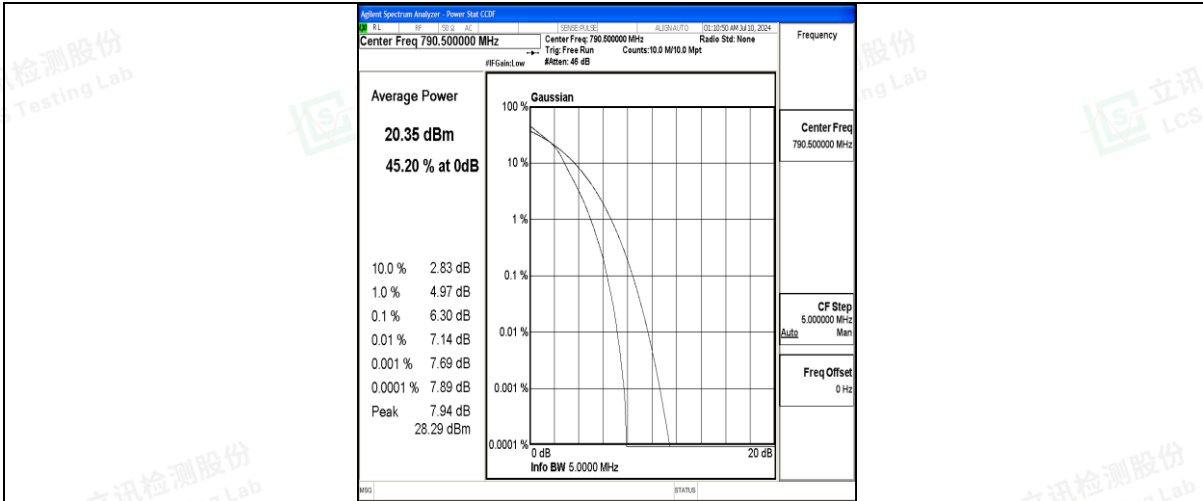
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	4.79	13	PASS
Band14	5MHz	16QAM	23305	1RB#0	5.46	13	PASS
Band14	5MHz	QPSK	23305	25RB#0	5.65	13	PASS
Band14	5MHz	16QAM	23305	25RB#0	6.30	13	PASS
Band14	5MHz	QPSK	23330	1RB#0	5.16	13	PASS
Band14	5MHz	16QAM	23330	1RB#0	5.83	13	PASS
Band14	5MHz	QPSK	23330	25RB#0	5.82	13	PASS
Band14	5MHz	16QAM	23330	25RB#0	6.48	13	PASS
Band14	5MHz	QPSK	23355	1RB#0	5.42	13	PASS
Band14	5MHz	16QAM	23355	1RB#0	6.07	13	PASS
Band14	5MHz	QPSK	23355	25RB#0	5.82	13	PASS
Band14	5MHz	16QAM	23355	25RB#0	6.51	13	PASS
Band14	10MHz	QPSK	23330	1RB#0	4.67	13	PASS
Band14	10MHz	16QAM	23330	1RB#0	5.58	13	PASS
Band14	10MHz	QPSK	23330	50RB#0	5.77	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.45	13	PASS



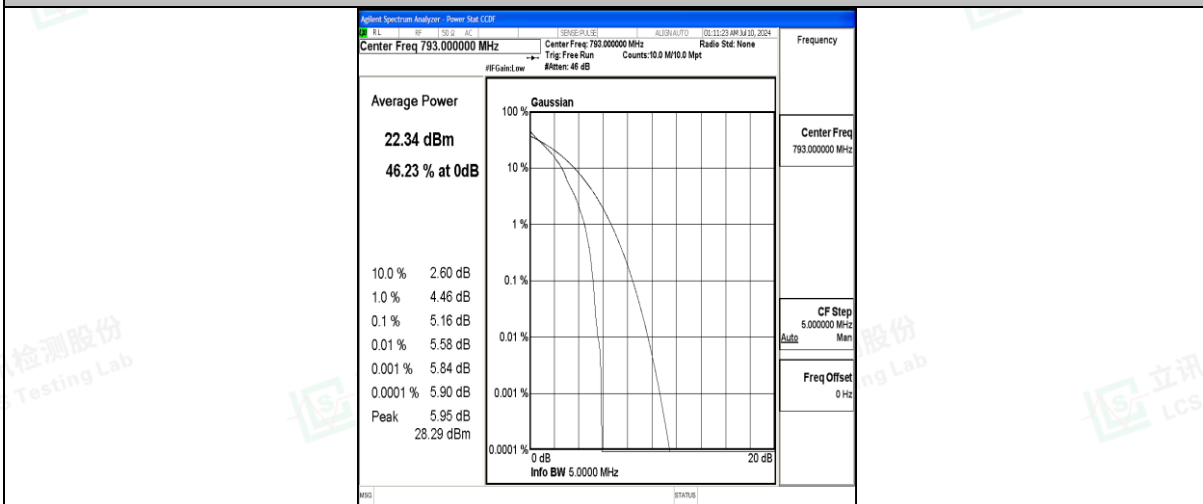


### Test Graphs

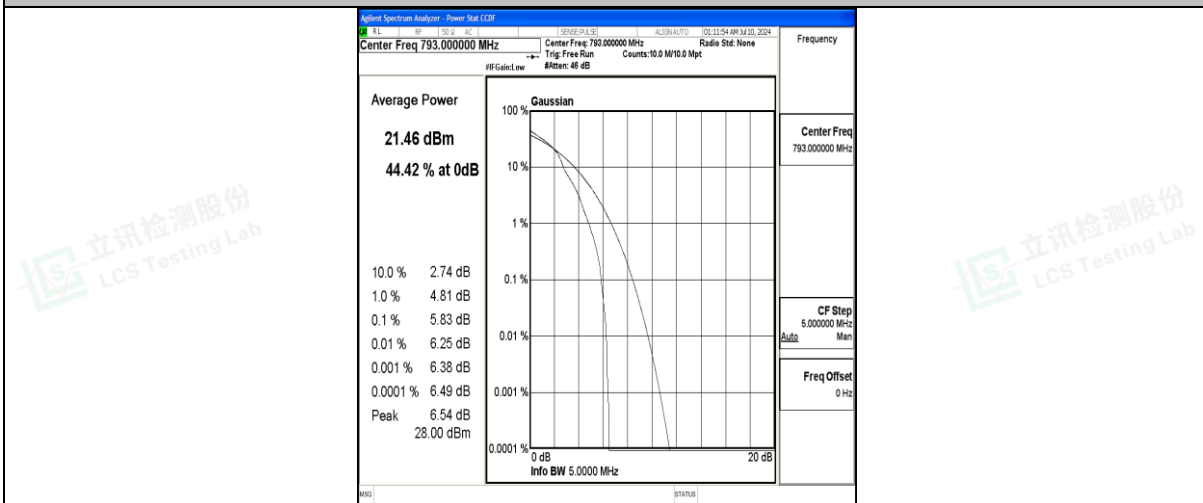




Band14-5MHz-16QAM-23305-25RB#0-PASS

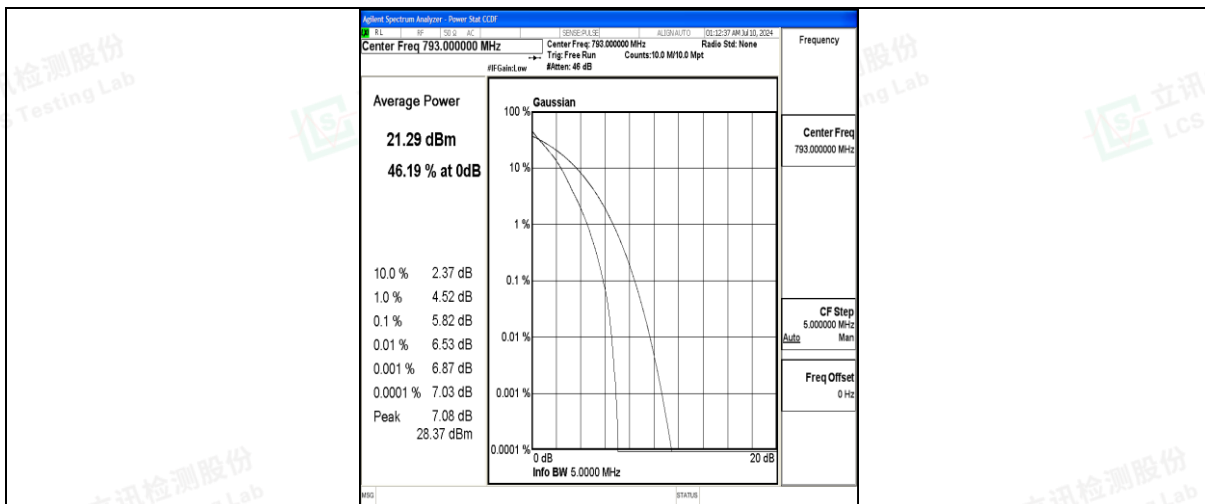


Band14-5MHz-QPSK-23330-1RB#0-PASS

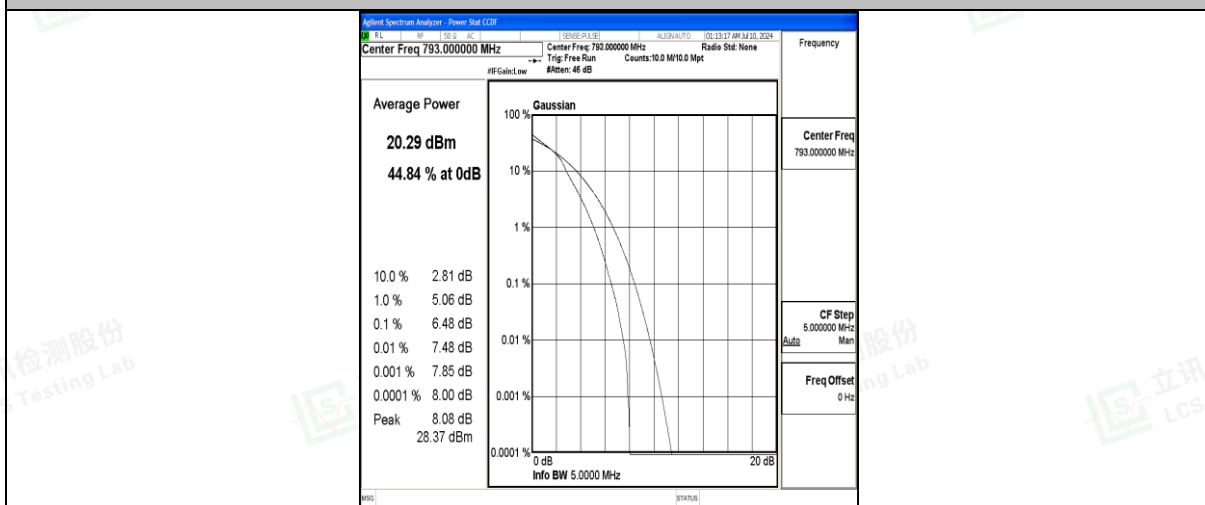


Band14-5MHz-16QAM-23330-1RB#0-PASS

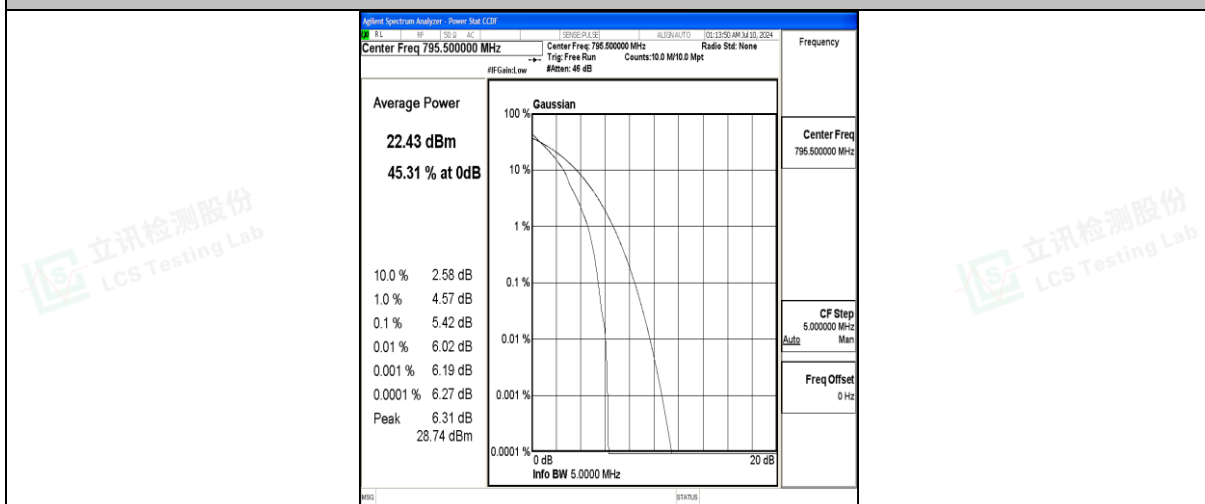




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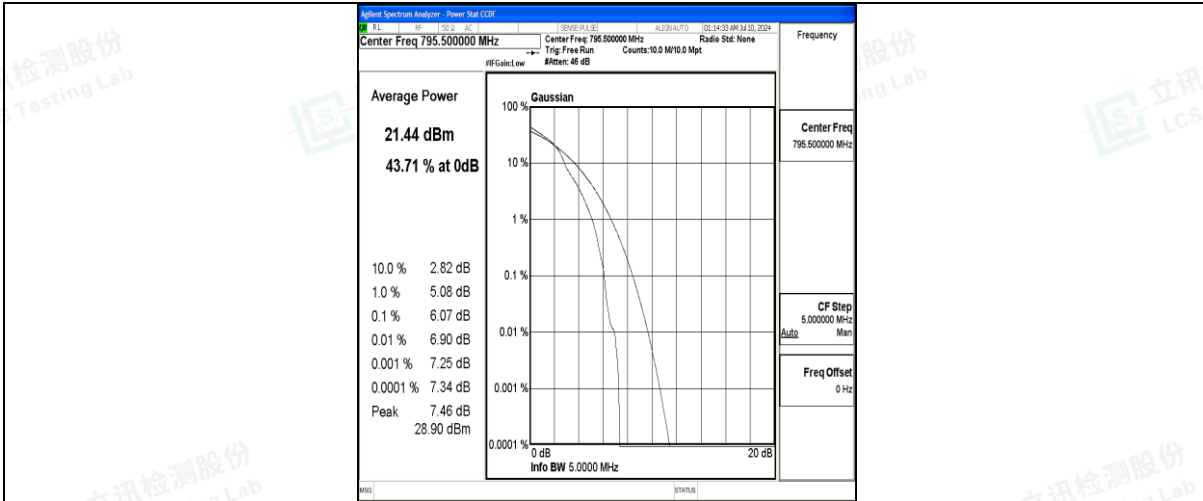


Band14-5MHz-16QAM-23330-25RB#0-PASS

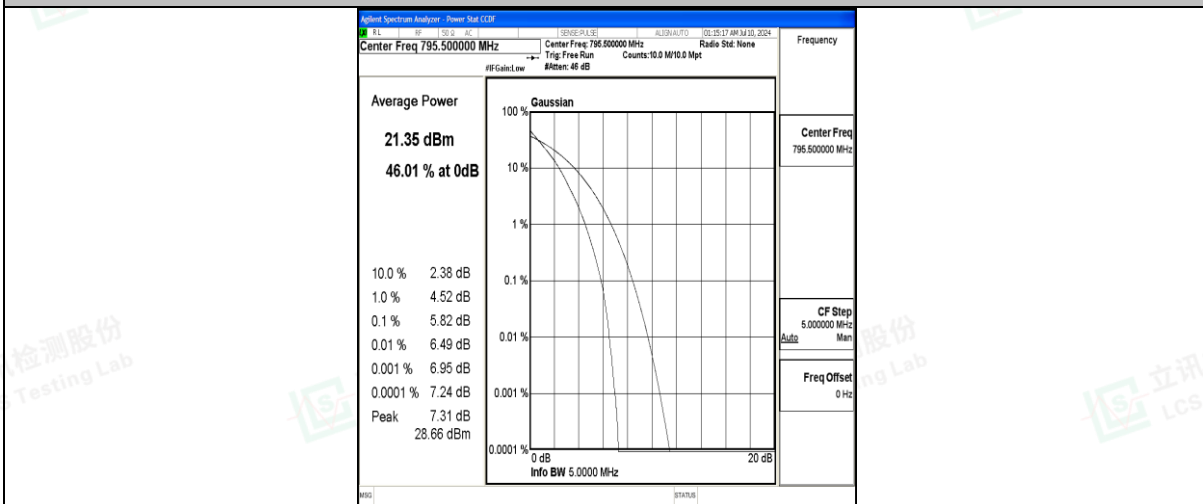


Band14-5MHz-QPSK-23355-1RB#0-PASS

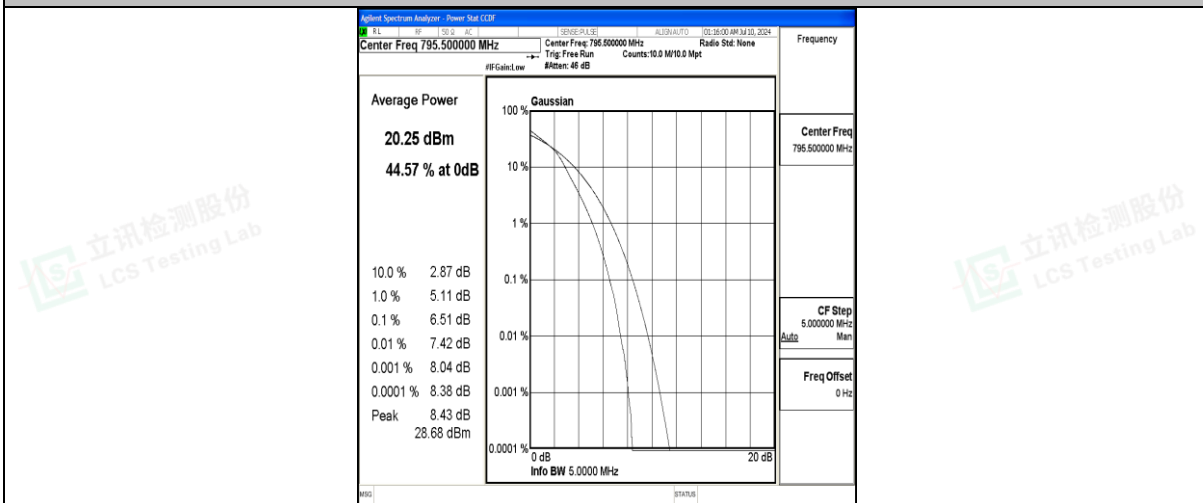




Band14-5MHz-16QAM-23355-1RB#0-PASS



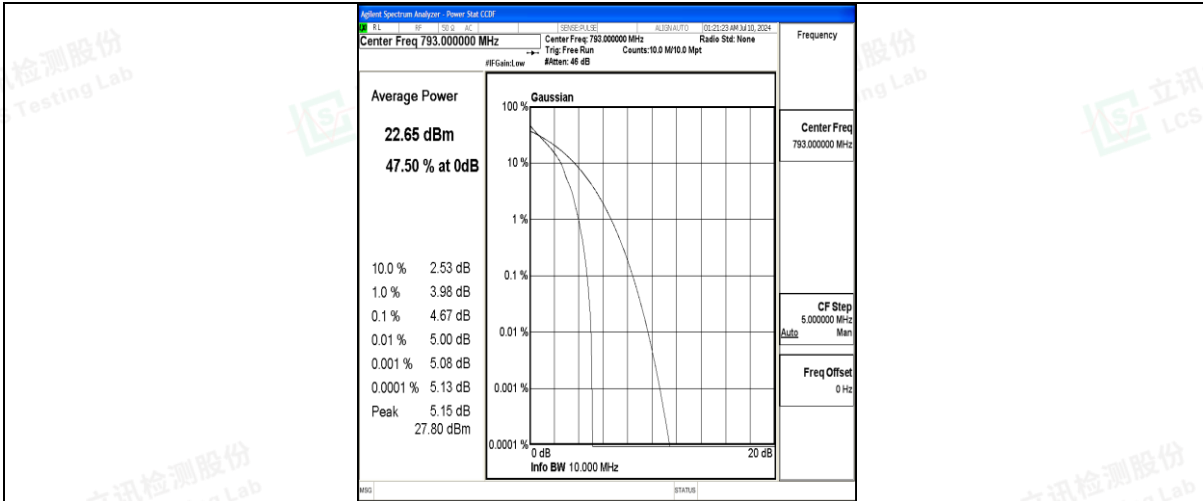
Band14-5MHz-QPSK-23355-25RB#0-PASS



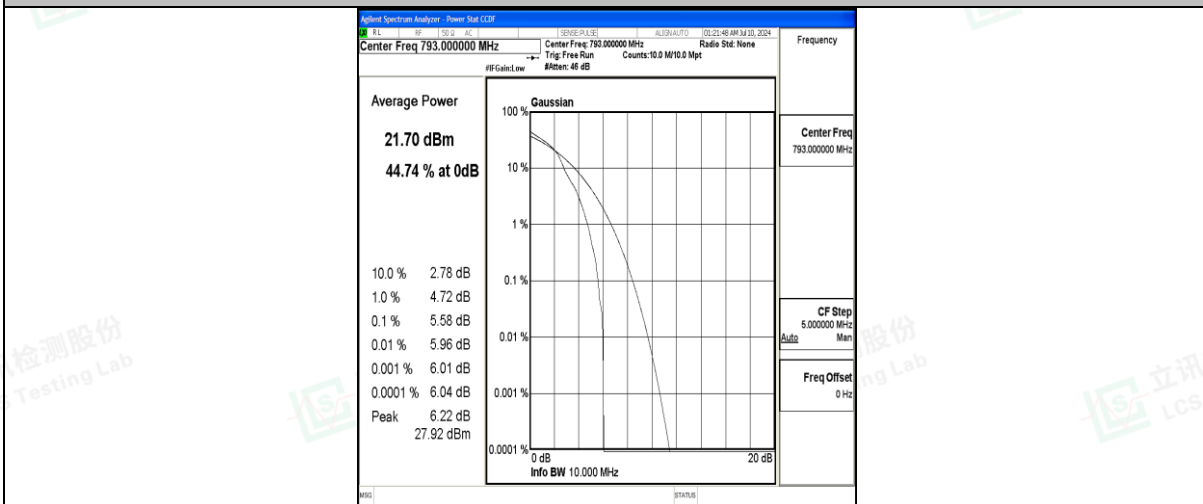
Band14-5MHz-16QAM-23355-25RB#0-PASS



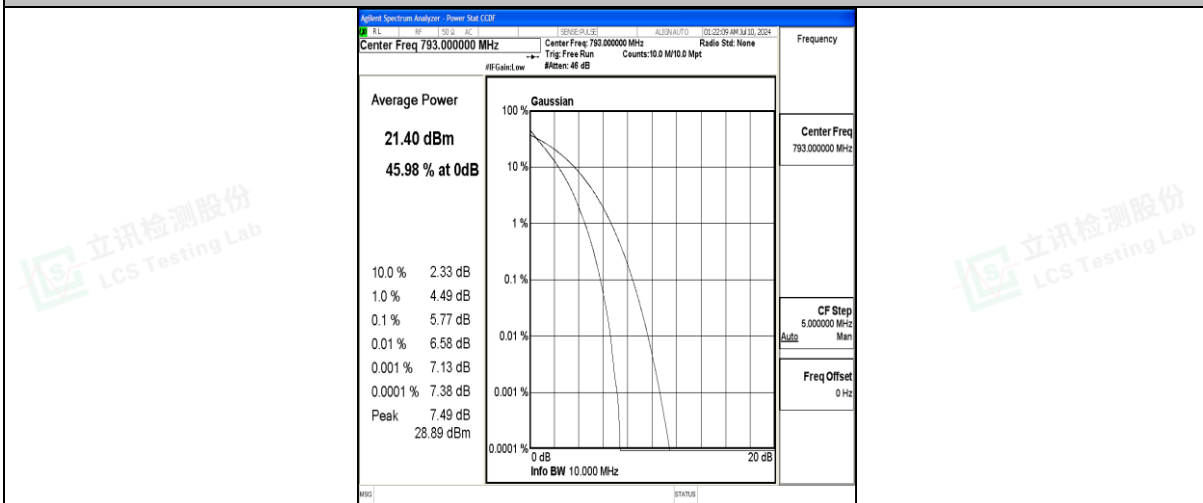




Band14-10MHz-QPSK-23330-1RB#0-PASS

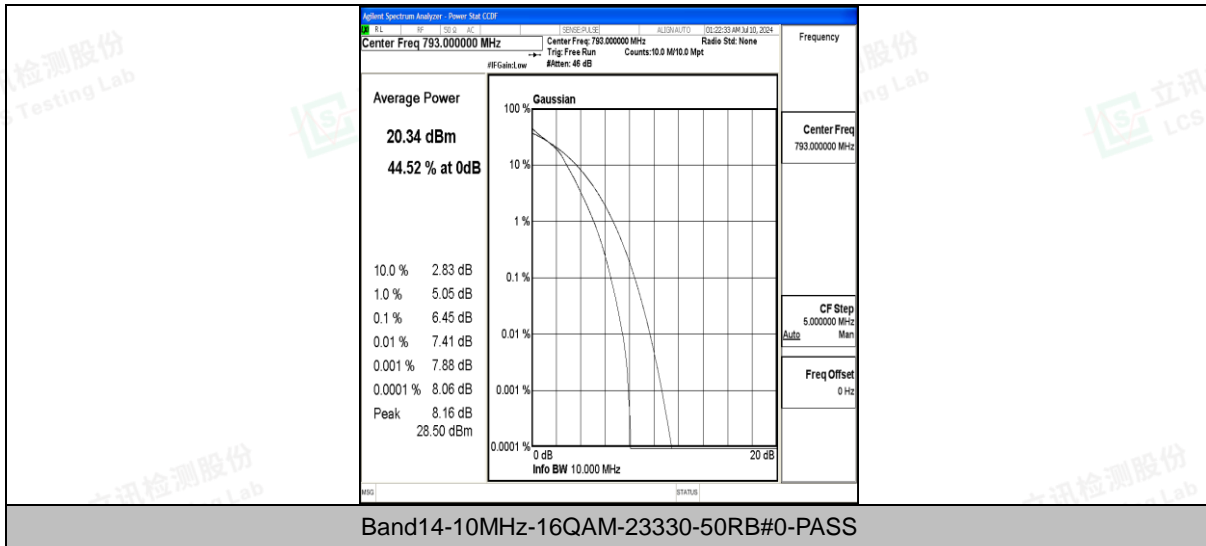


Band14-10MHz-16QAM-23330-1RB#0-PASS



Band14-10MHz-QPSK-23330-50RB#0-PASS







## L.3 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.5030	5.015	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.5014	4.973	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.4997	5.007	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.5098	5.041	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.5035	5.001	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.5128	5.008	PASS
Band14	10MHz	QPSK	23330	50RB#0	9.0031	9.975	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.9990	9.934	PASS



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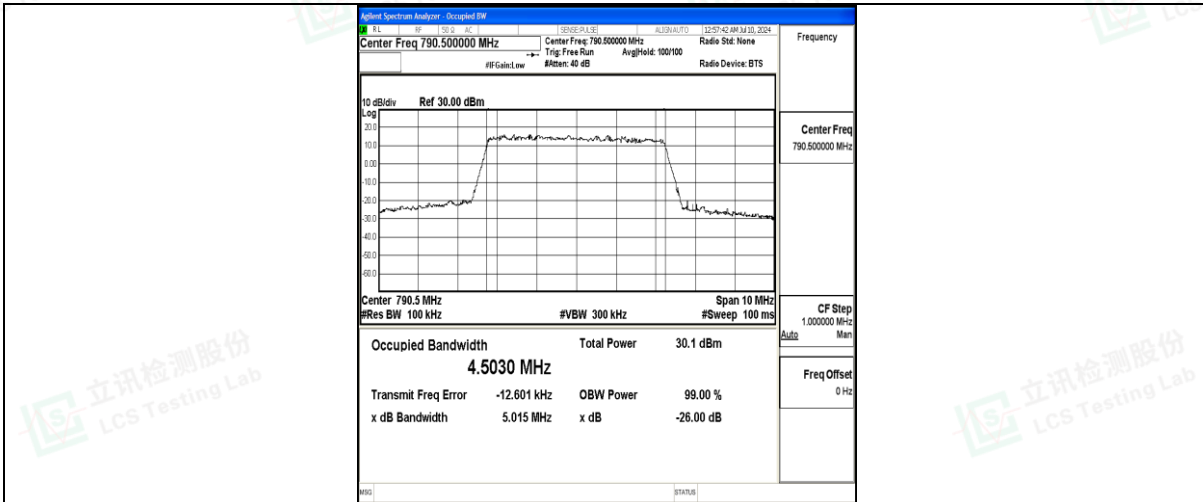
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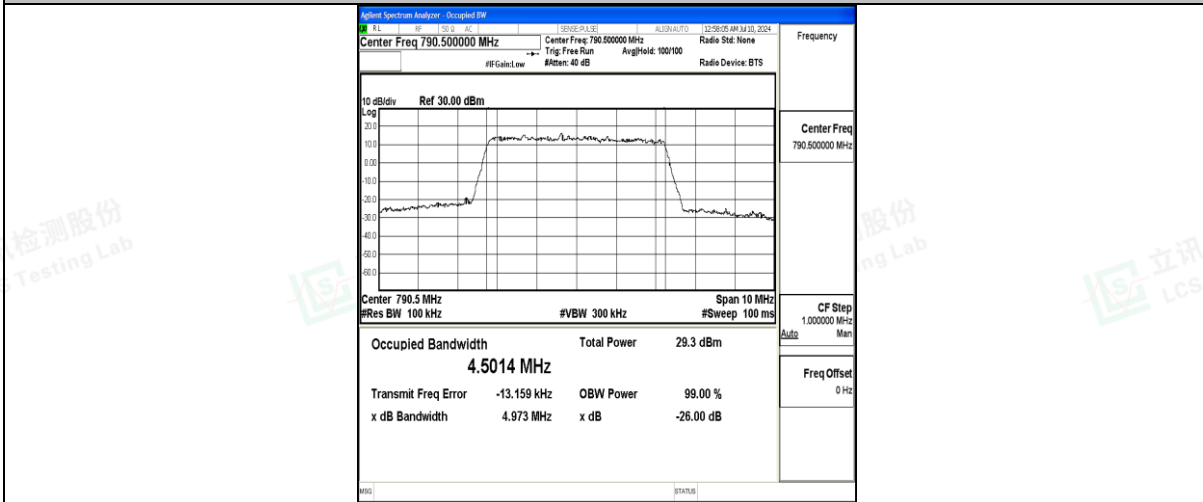
Scan code to check authenticity



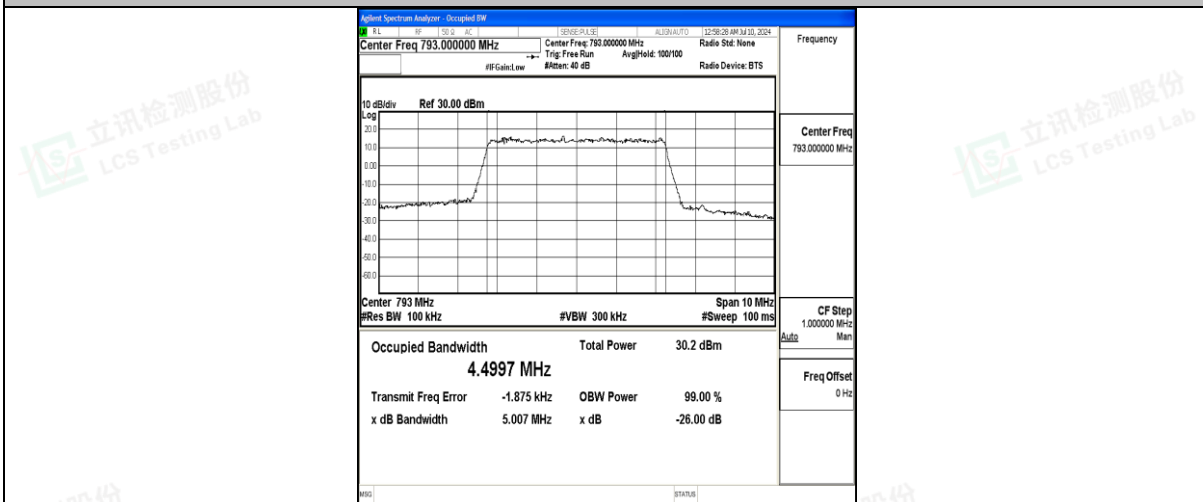
### Test Graphs



Band14-5MHz-QPSK-23305-25RB#0-PASS

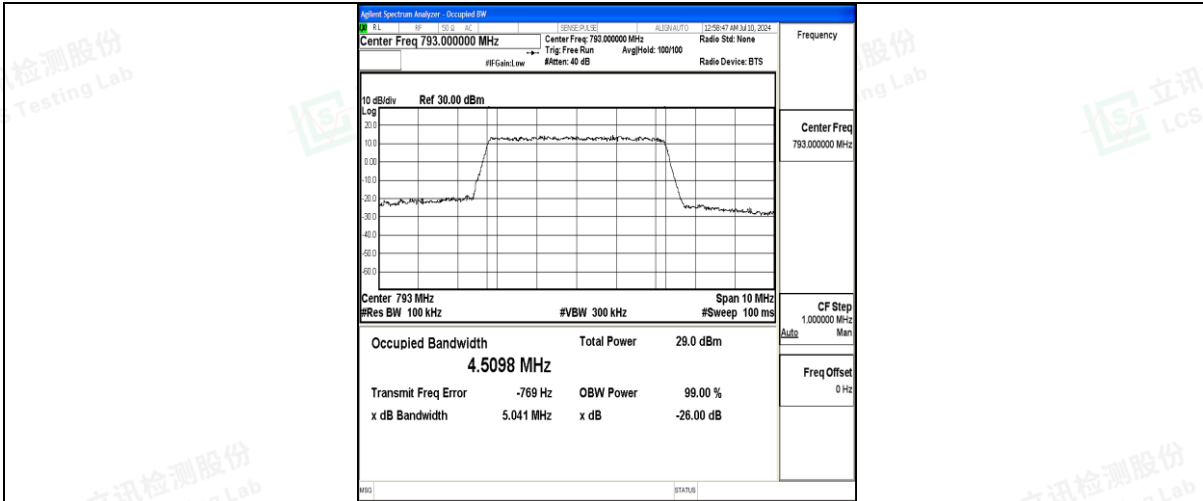


Band14-5MHz-16QAM-23305-25RB#0-PASS

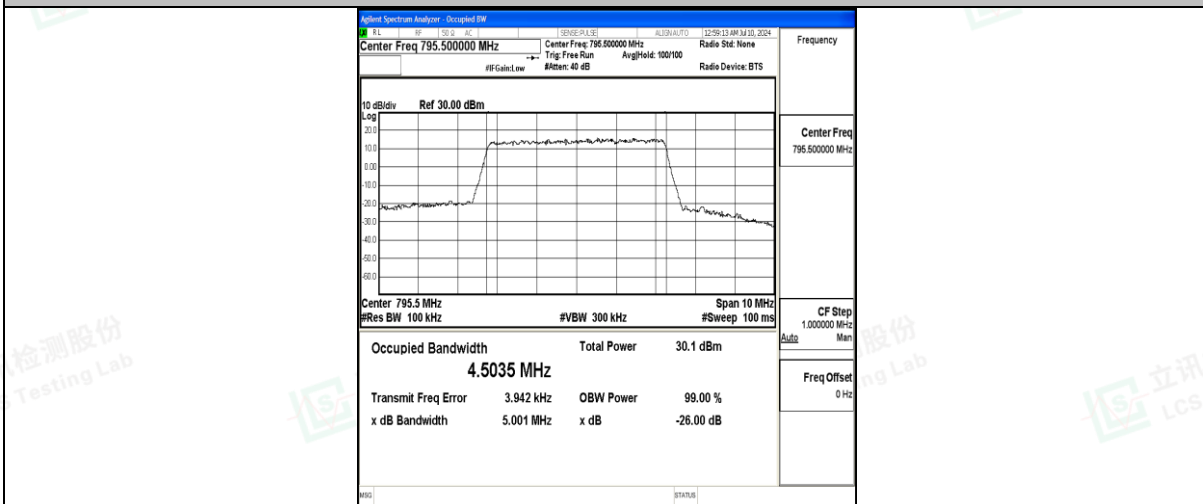


Band14-5MHz-QPSK-23330-25RB#0-PASS

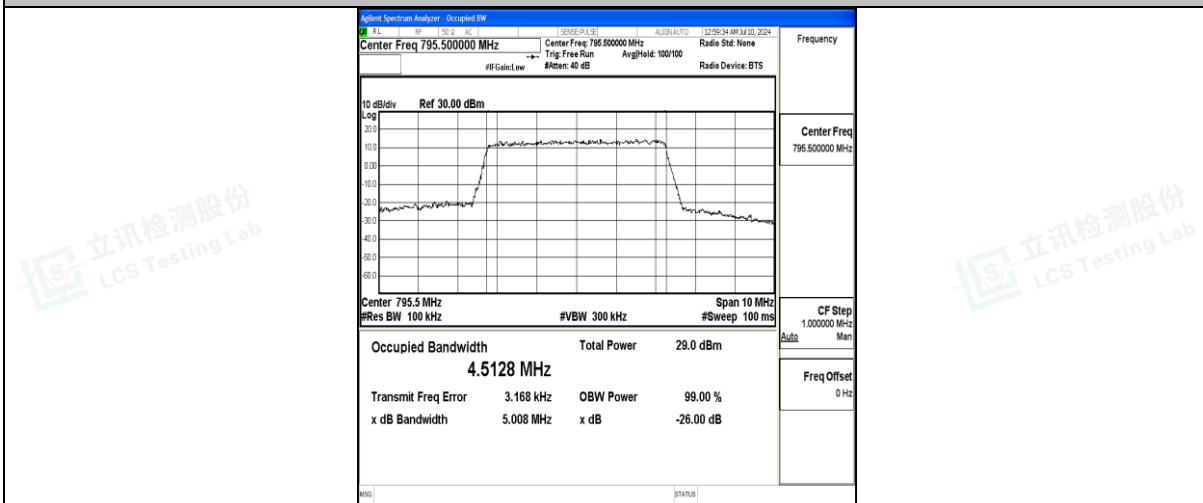




Band14-5MHz-16QAM-23330-25RB#0-PASS

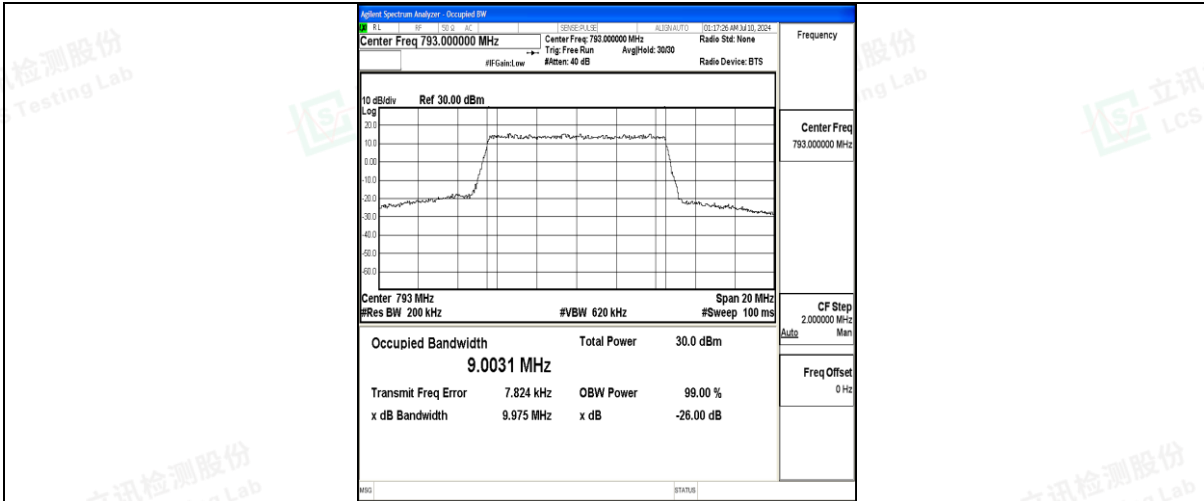


Band14-5MHz-QPSK-23355-25RB#0-PASS

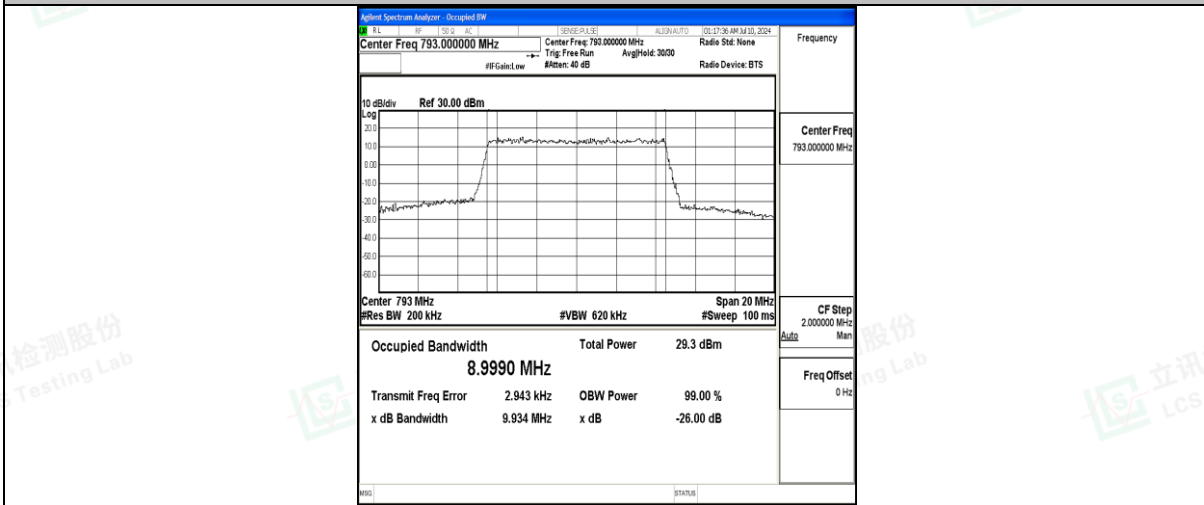


Band14-5MHz-16QAM-23355-25RB#0-PASS





Band14-10MHz-QPSK-23330-50RB#0-PASS



Band14-10MHz-16QAM-23330-50RB#0-PASS



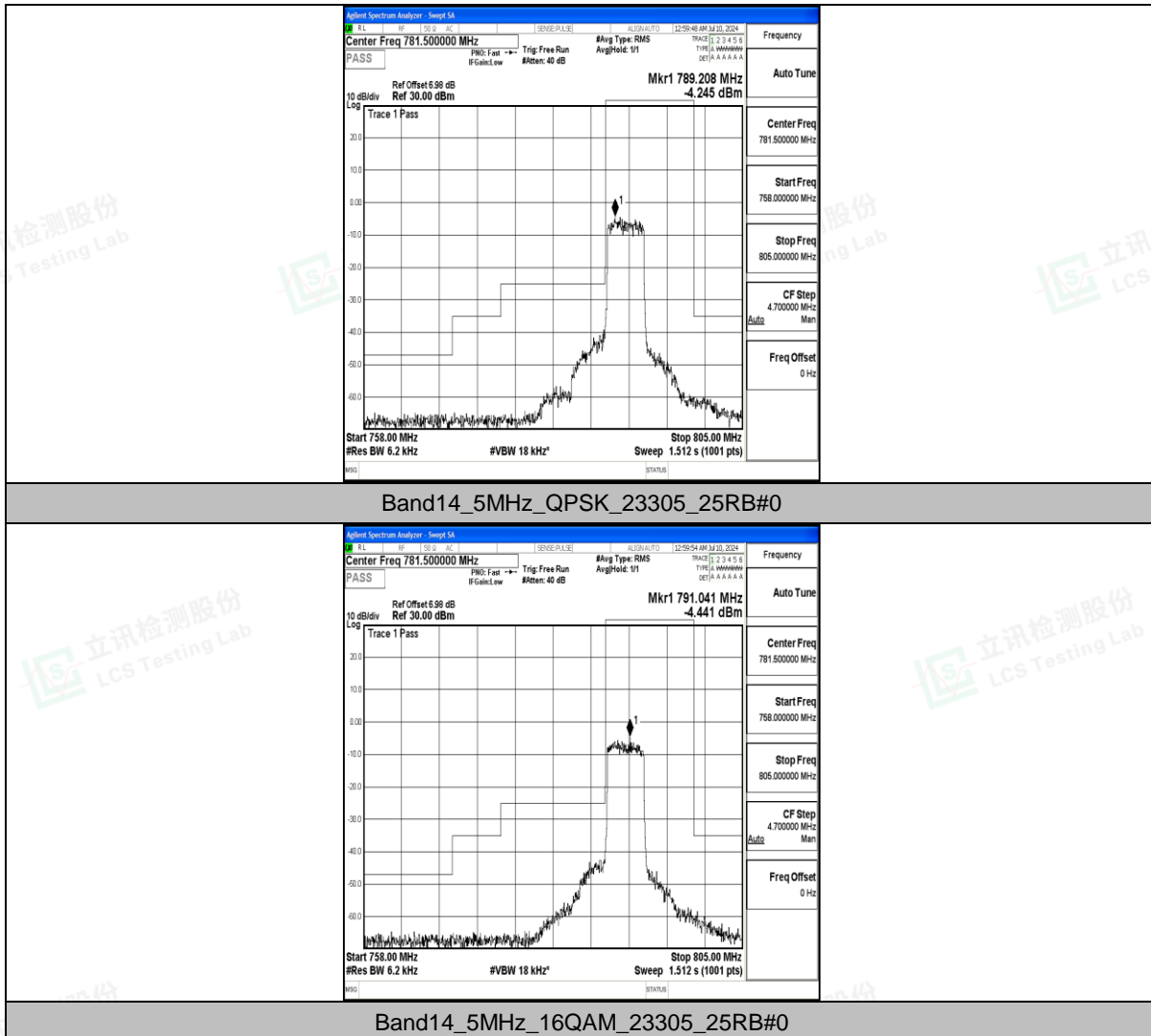


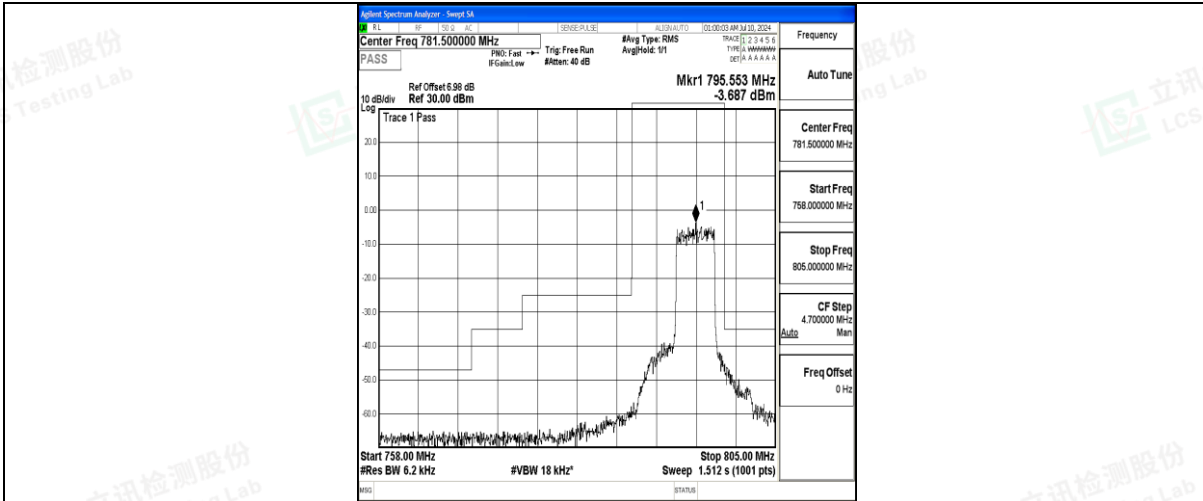
### L.4 Band Edge

#### Test Result

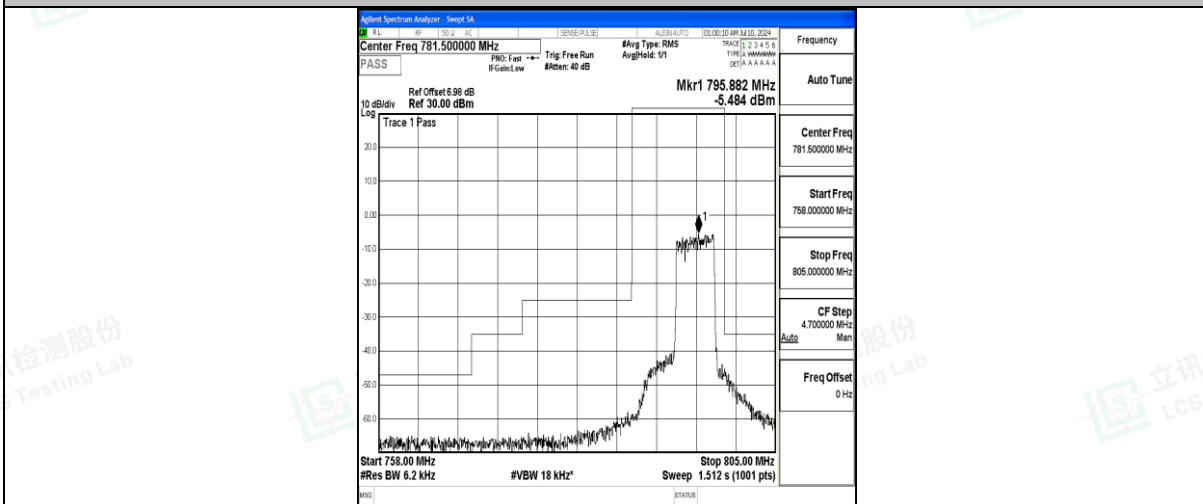
Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frequency	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	787.80	-39.29	PASS
Band14	5MHz	16QAM	23305	25RB#0	787.85	-42.42	PASS
Band14	5MHz	QPSK	23355	25RB#0	799.22	-46.23	PASS
Band14	5MHz	16QAM	23355	25RB#0	799.08	-46.21	PASS
Band14	10MHz	QPSK	23330	50RB#0	799.27	-46.08	PASS
Band14	10MHz	16QAM	23330	50RB#0	799.88	-46.28	PASS

#### Test Graphs

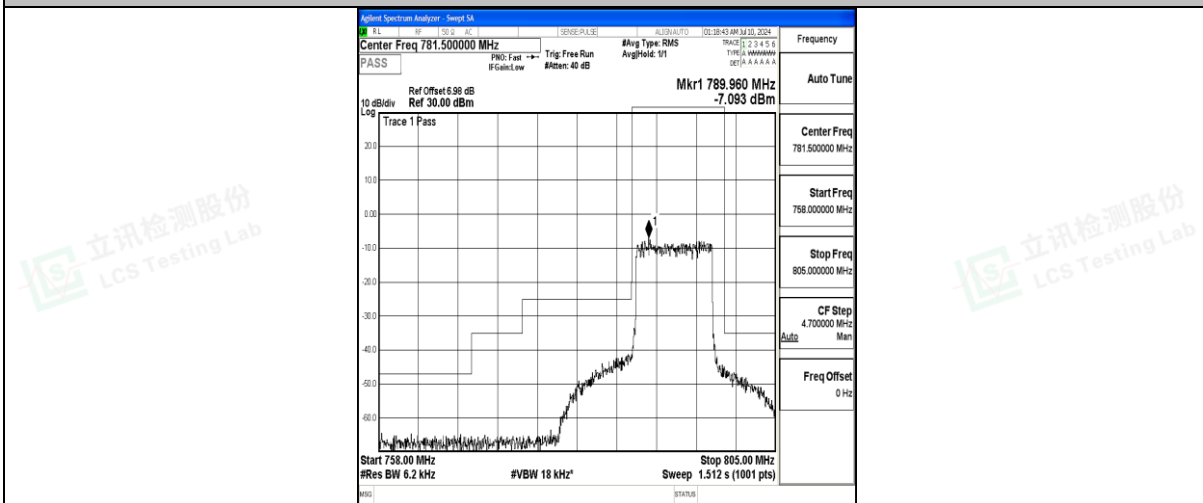




Band14\_5MHz\_QPSK\_23355\_25RB#0



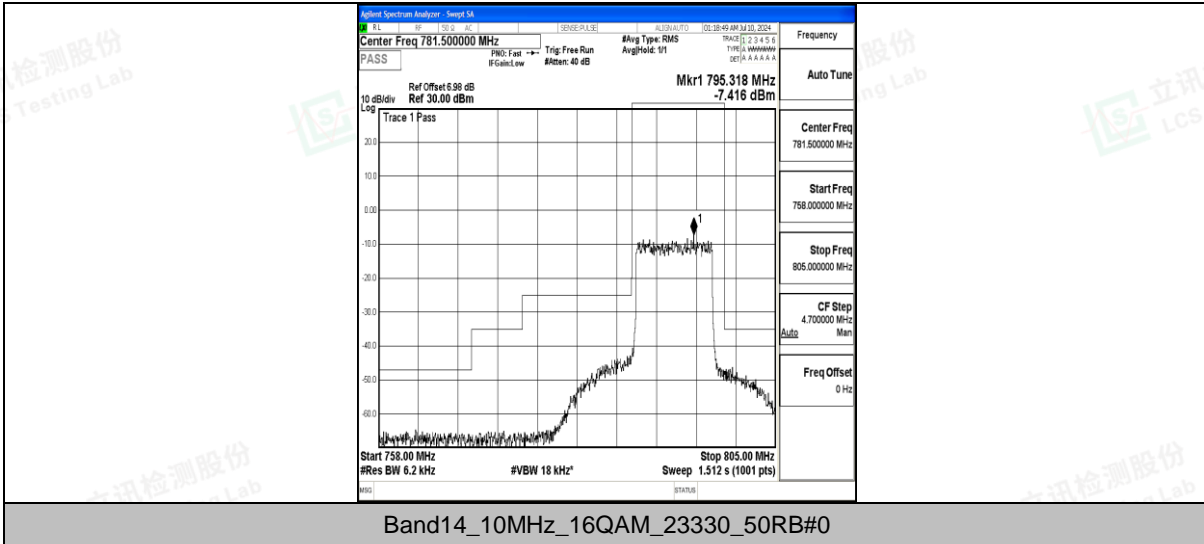
Band14\_5MHz\_16QAM\_23355\_25RB#0



Band14\_10MHz\_QPSK\_23330\_50RB#0









## L.5 Conducted Spurious Emission

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	0.009~0.15	-57.10	PASS
Band14	5MHz	QPSK	23305	1RB#0	0.15~30	-51.95	PASS
Band14	5MHz	QPSK	23305	1RB#0	30~1000	-62.06	PASS
Band14	5MHz	QPSK	23305	1RB#0	1000~3000	-43.83	PASS
Band14	5MHz	QPSK	23305	1RB#0	3000~10000	-44.04	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.009~0.15	-56.36	PASS
Band14	5MHz	16QAM	23305	1RB#0	0.15~30	-51.98	PASS
Band14	5MHz	16QAM	23305	1RB#0	30~1000	-62.09	PASS
Band14	5MHz	16QAM	23305	1RB#0	1000~3000	-44.33	PASS
Band14	5MHz	16QAM	23305	1RB#0	3000~10000	-44.01	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.009~0.15	-58.35	PASS
Band14	5MHz	QPSK	23330	1RB#0	0.15~30	-49.93	PASS
Band14	5MHz	QPSK	23330	1RB#0	30~1000	-61.73	PASS
Band14	5MHz	QPSK	23330	1RB#0	1000~3000	-44.07	PASS
Band14	5MHz	QPSK	23330	1RB#0	3000~10000	-43.64	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.009~0.15	-58.20	PASS
Band14	5MHz	16QAM	23330	1RB#0	0.15~30	-55.22	PASS
Band14	5MHz	16QAM	23330	1RB#0	30~1000	-61.84	PASS
Band14	5MHz	16QAM	23330	1RB#0	1000~3000	-45.28	PASS
Band14	5MHz	16QAM	23330	1RB#0	3000~10000	-43.84	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.009~0.15	-58.71	PASS
Band14	5MHz	QPSK	23355	1RB#0	0.15~30	-52.01	PASS
Band14	5MHz	QPSK	23355	1RB#0	30~1000	-61.98	PASS
Band14	5MHz	QPSK	23355	1RB#0	1000~3000	-42.12	PASS
Band14	5MHz	QPSK	23355	1RB#0	3000~10000	-44.13	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.009~0.15	-57.84	PASS
Band14	5MHz	16QAM	23355	1RB#0	0.15~30	-51.45	PASS
Band14	5MHz	16QAM	23355	1RB#0	30~1000	-61.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	1000~3000	-44.03	PASS
Band14	5MHz	16QAM	23355	1RB#0	3000~10000	-43.75	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.009~0.15	-54.82	PASS
Band14	10MHz	QPSK	23330	1RB#0	0.15~30	-51.69	PASS
Band14	10MHz	QPSK	23330	1RB#0	30~1000	-61.80	PASS
Band14	10MHz	QPSK	23330	1RB#0	1000~3000	-43.96	PASS
Band14	10MHz	QPSK	23330	1RB#0	3000~10000	-43.96	PASS
Band14	10MHz	16QAM	23330	1RB#0	0.009~0.15	-58.66	PASS



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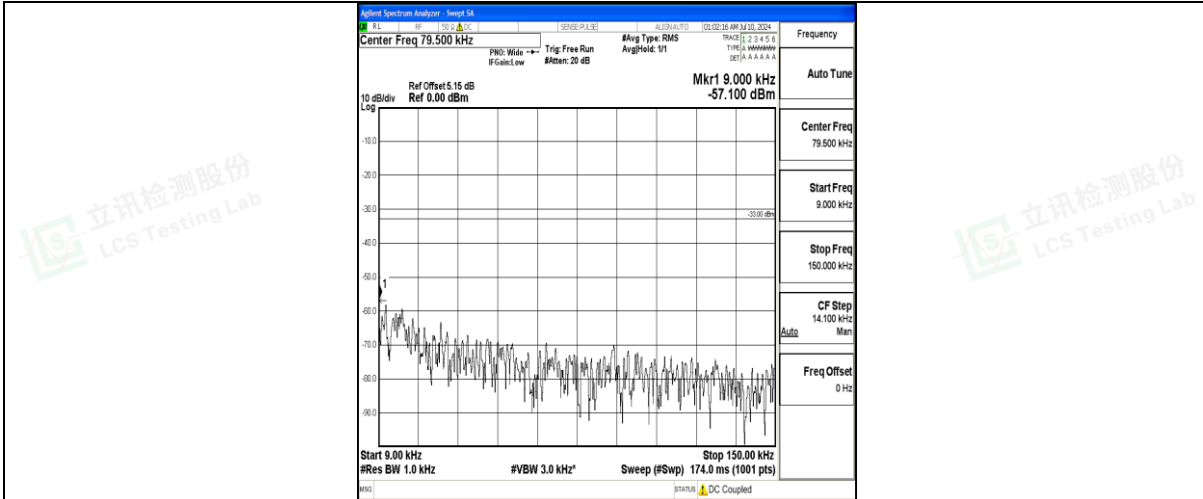
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

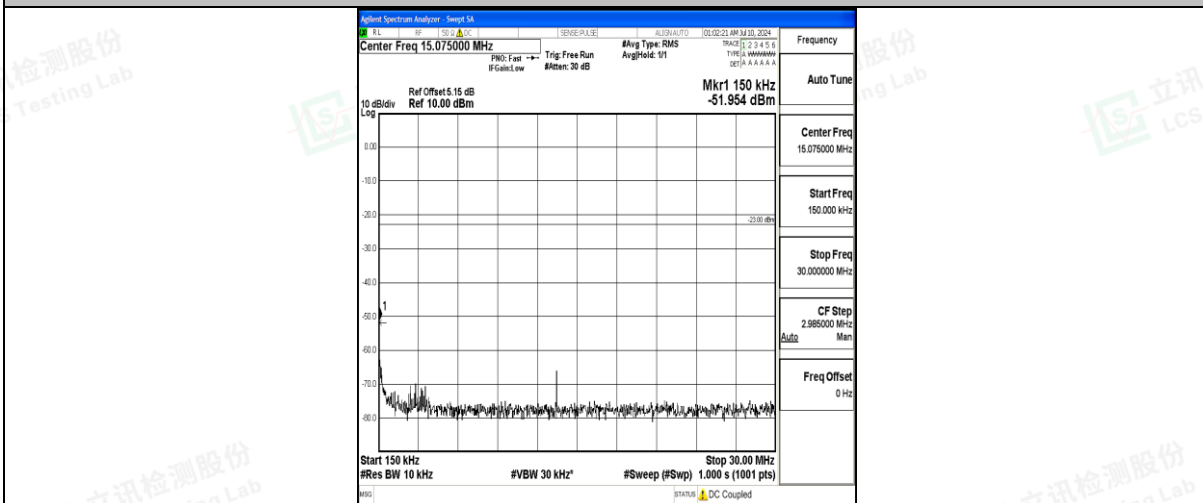


Band14	10MHz	16QAM	23330	1RB#0	0.15~30	-51.78	PASS
Band14	10MHz	16QAM	23330	1RB#0	30~1000	-61.81	PASS
Band14	10MHz	16QAM	23330	1RB#0	1000~3000	-43.57	PASS
Band14	10MHz	16QAM	23330	1RB#0	3000~10000	-44.14	PASS

### Test Graphs

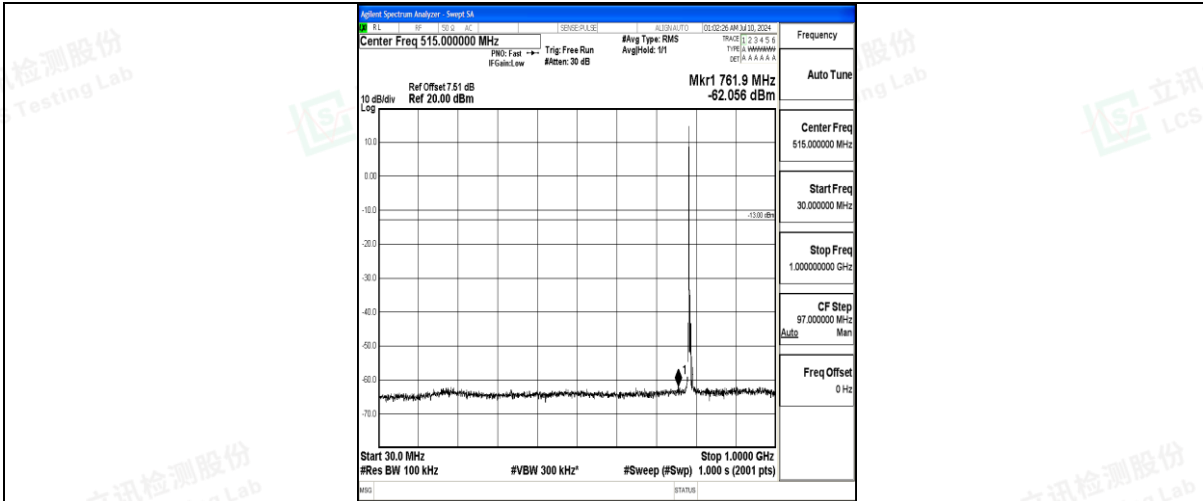


Band14\_5MHz\_QPSK\_23305\_1RB#0\_0.009~0.15\_0.009~0.15

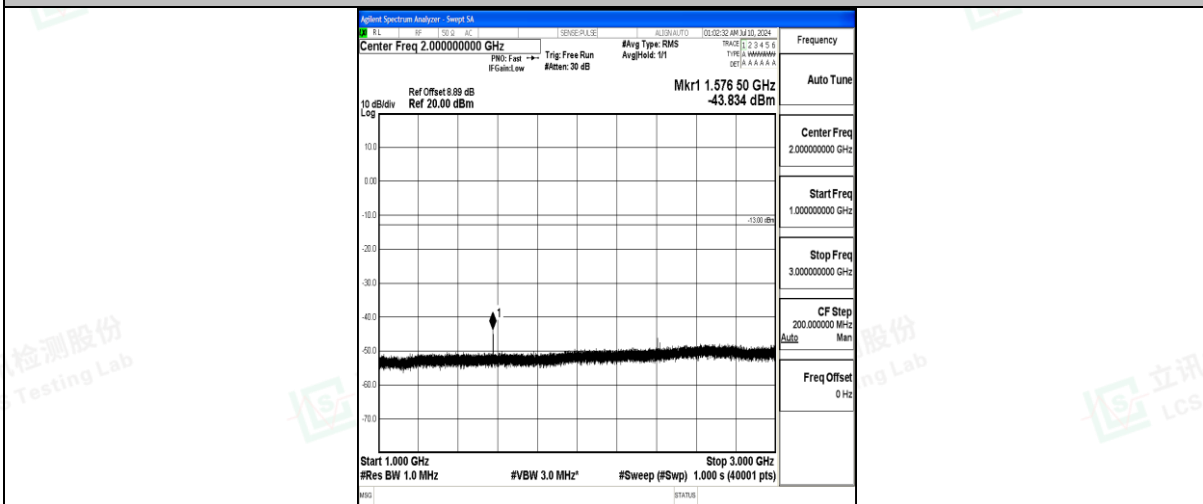


Band14\_5MHz\_QPSK\_23305\_1RB#0\_0.15~30\_0.15~30

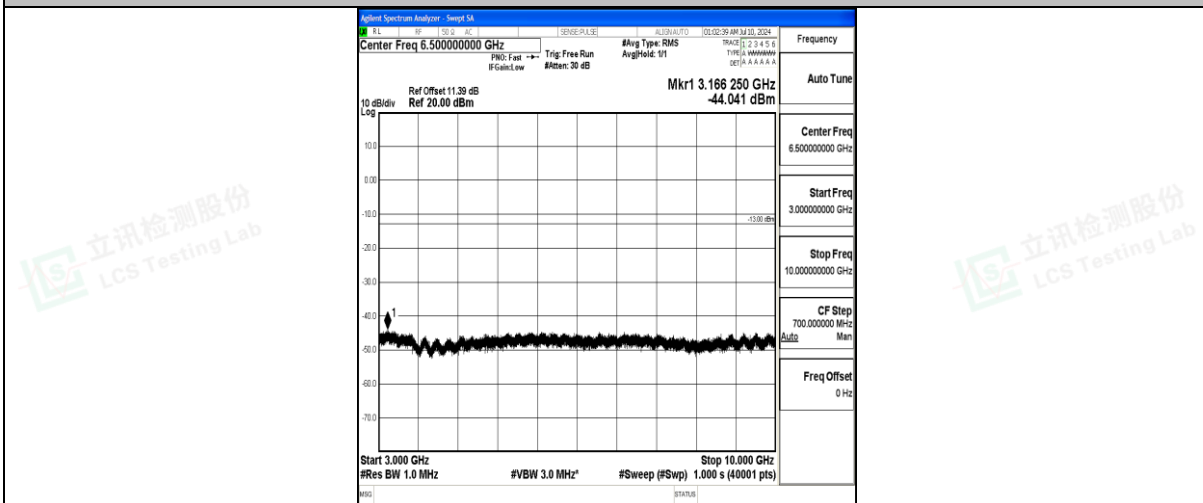




Band14\_5MHz\_QPSK\_23305\_1RB#0\_30~1000\_30~1000

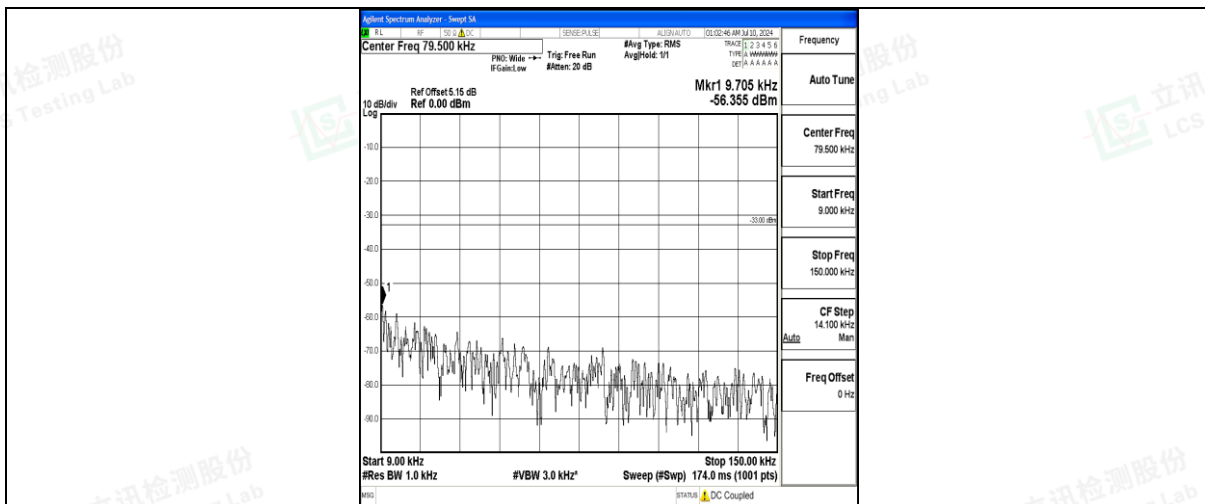


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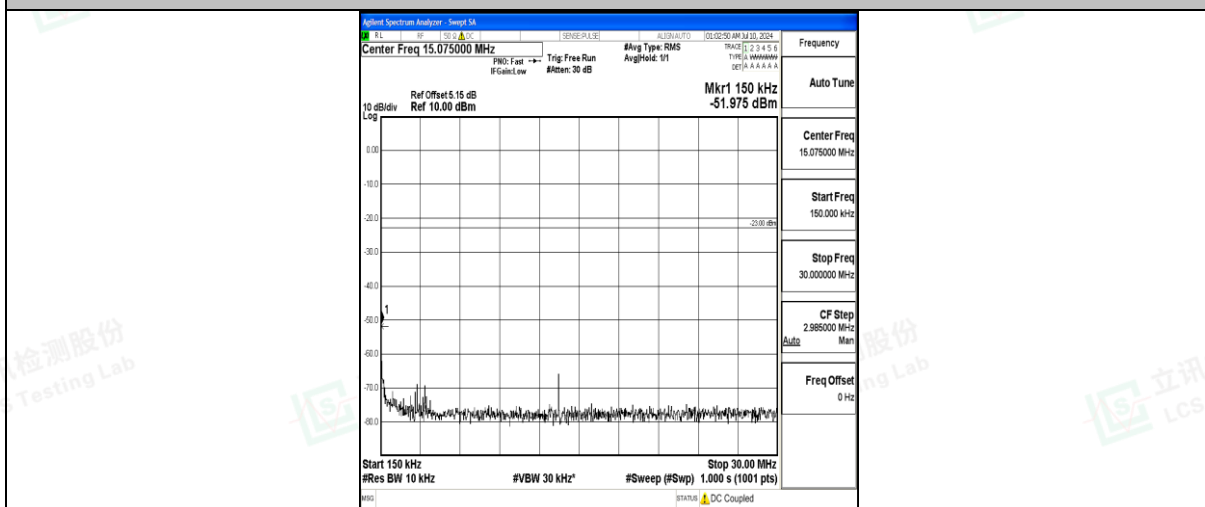


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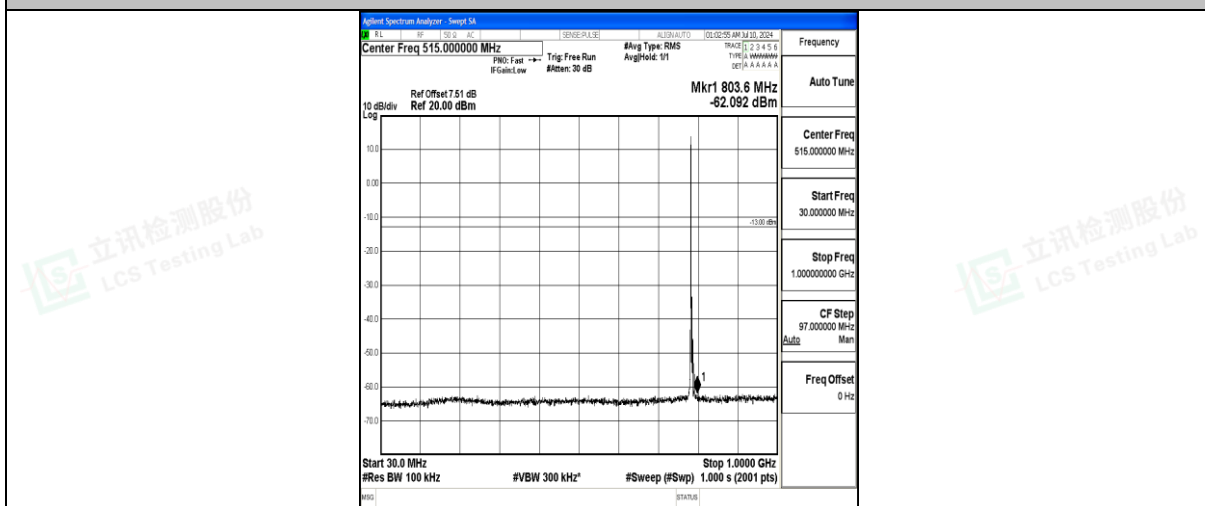




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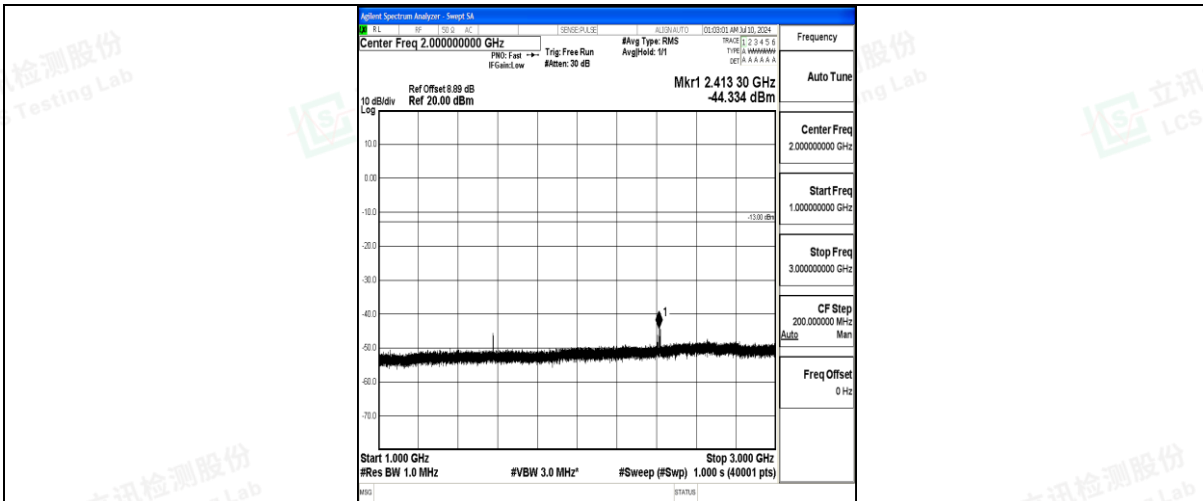


Band14\_5MHz\_16QAM\_23305\_1RB#0\_0.15~30\_0.15~30

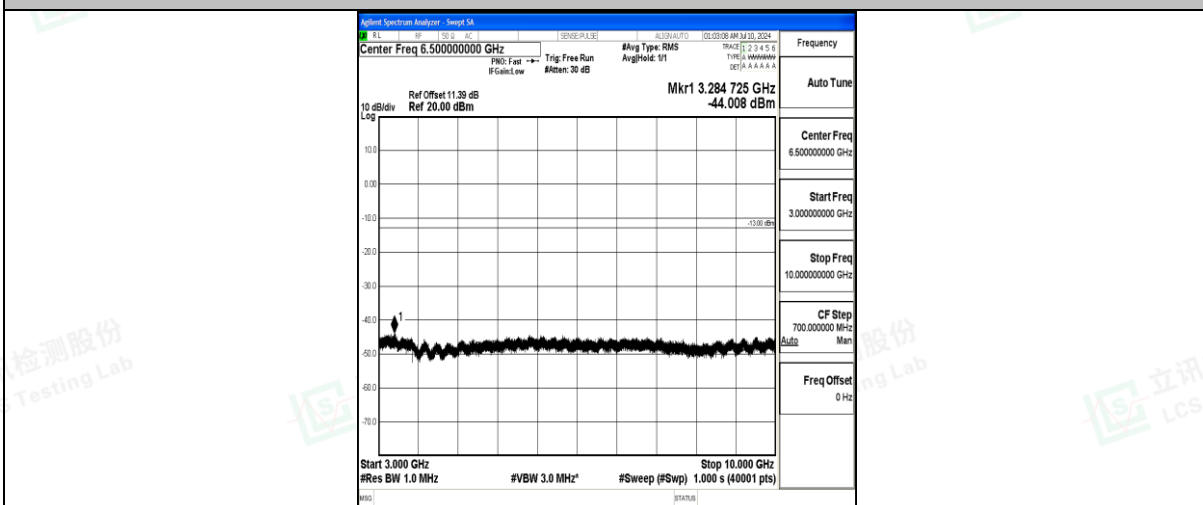


Band14\_5MHz\_16QAM\_23305\_1RB#0\_30~1000\_30~1000

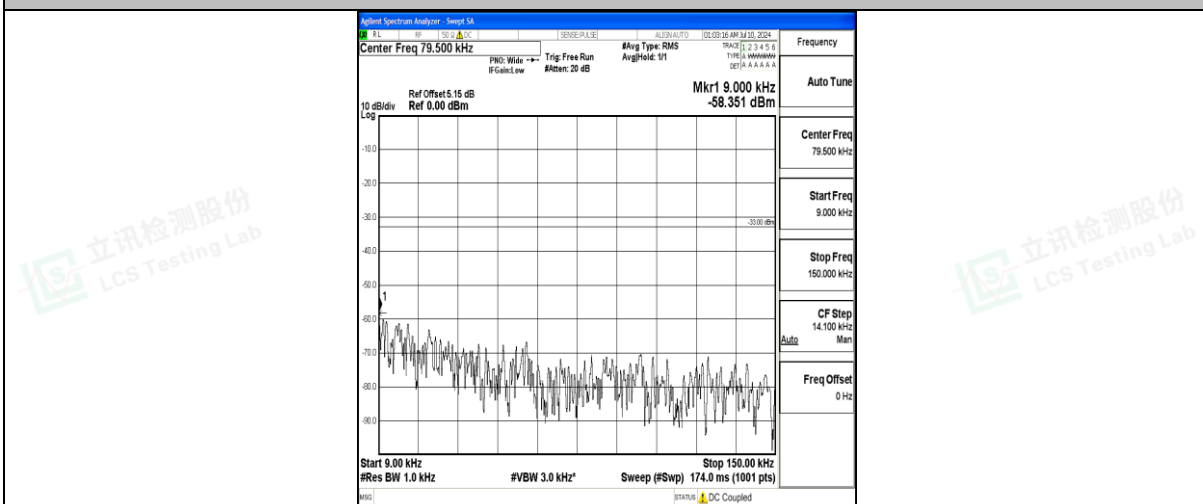




Band14\_5MHz\_16QAM\_23305\_1RB#0\_1000~3000\_1000~3000

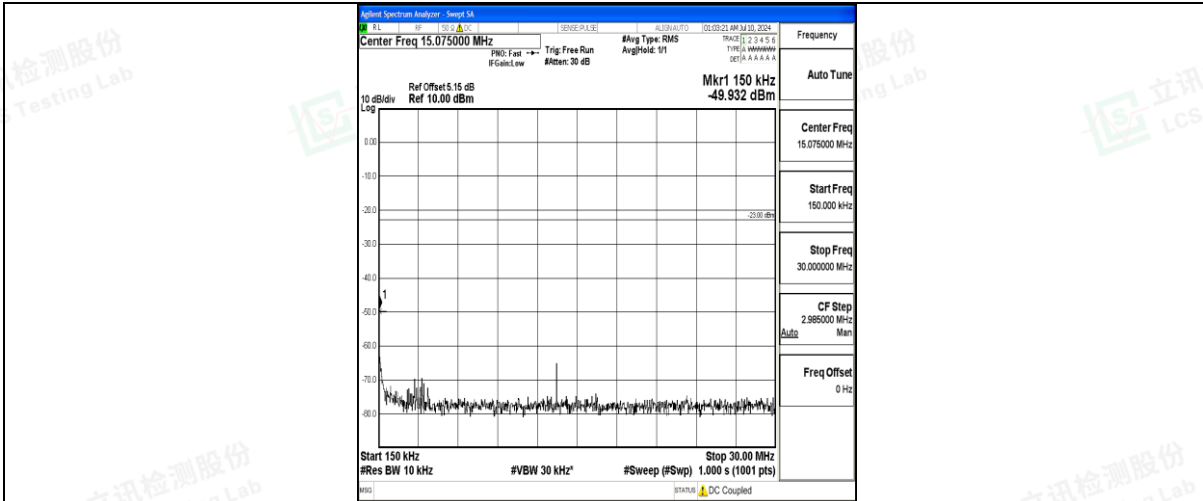


Band14\_5MHz\_16QAM\_23305\_1RB#0\_3000~10000\_3000~10000

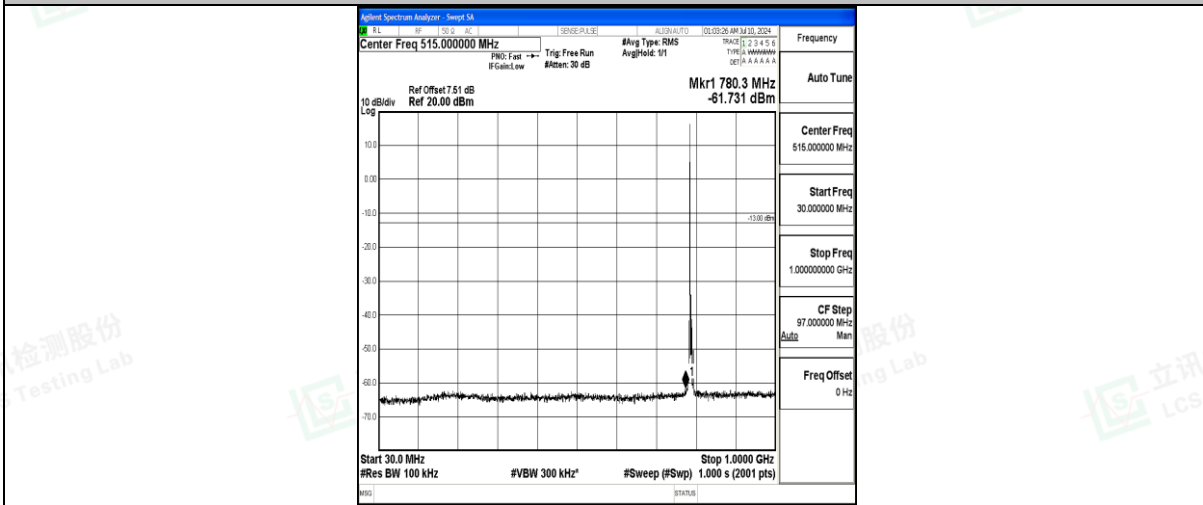


Band14\_5MHz\_QPSK\_23330\_1RB#0\_0.009~0.15\_0.009~0.15

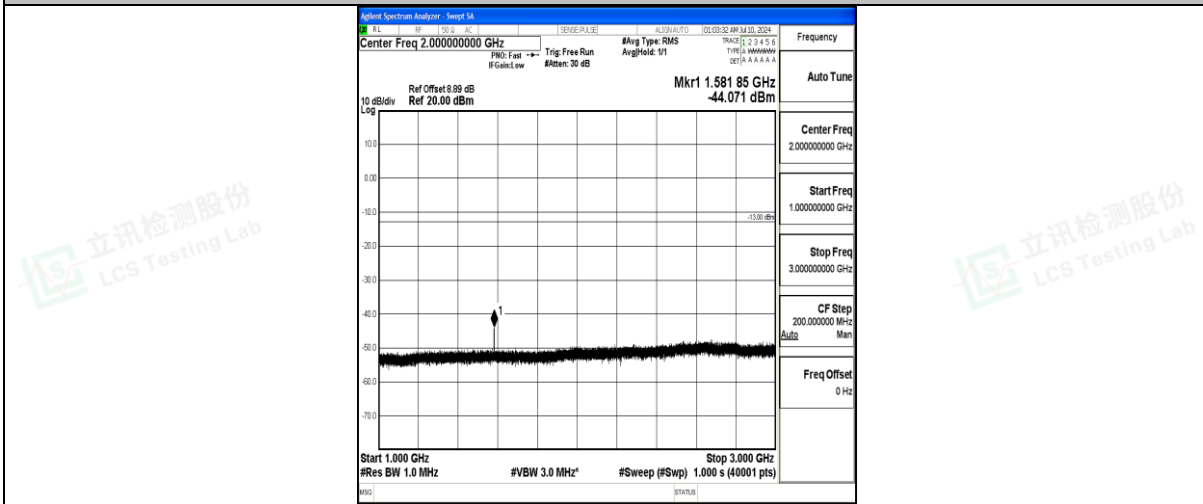




Band14\_5MHz\_QPSK\_23330\_1RB#0\_0.15~30\_0.15~30

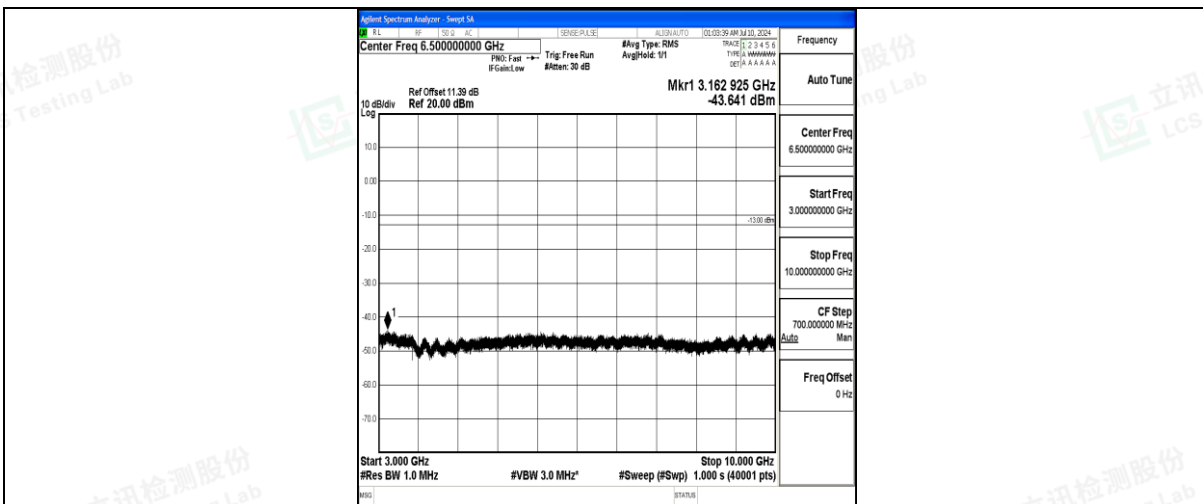


Band14\_5MHz\_QPSK\_23330\_1RB#0\_30~1000\_30~1000

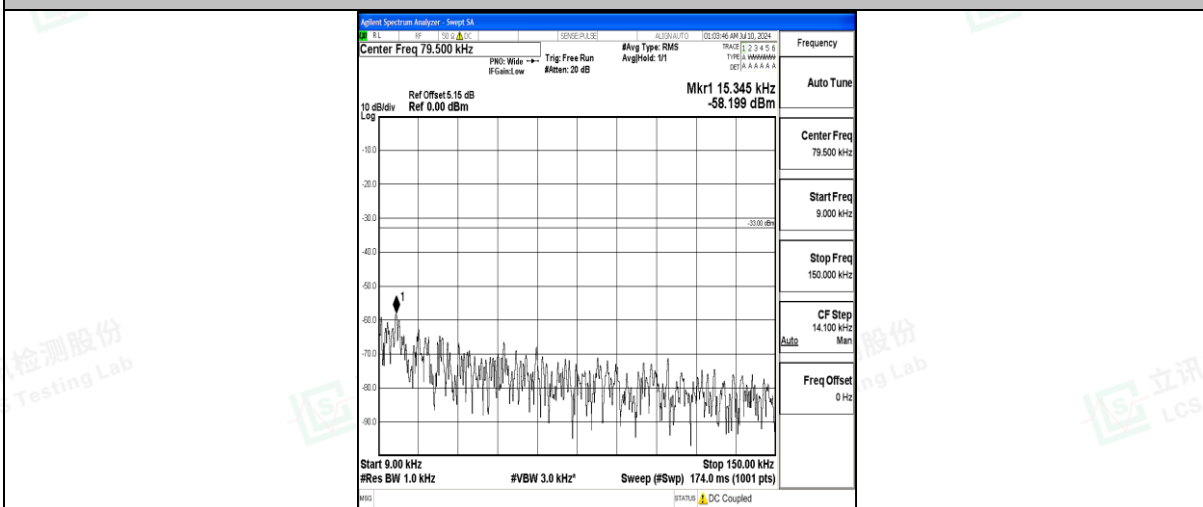


Band14\_5MHz\_QPSK\_23330\_1RB#0\_1000~3000\_1000~3000

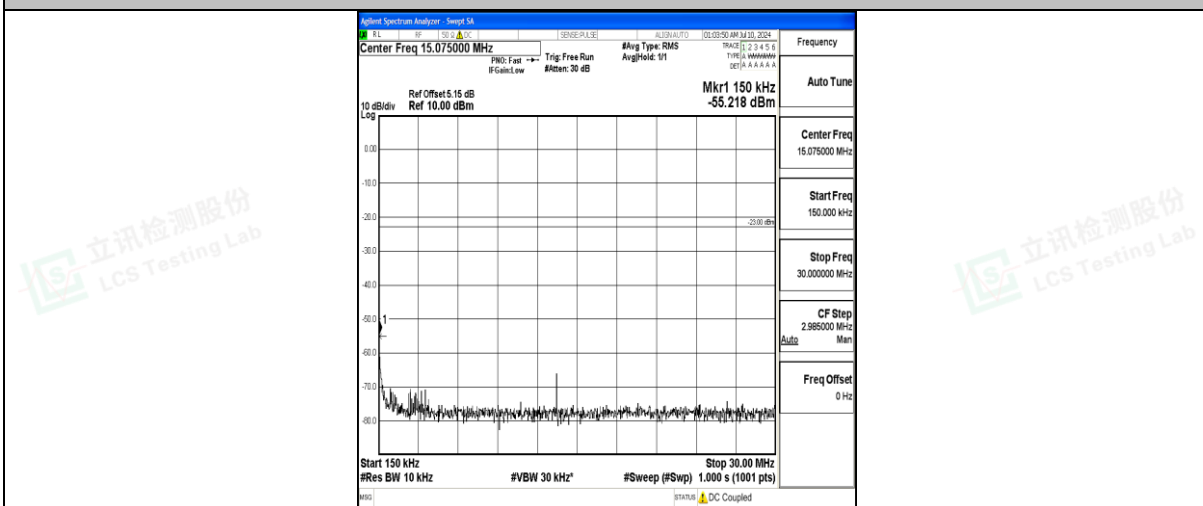




Band14\_5MHz\_QPSK\_23330\_1RB#0\_3000~10000\_3000~10000



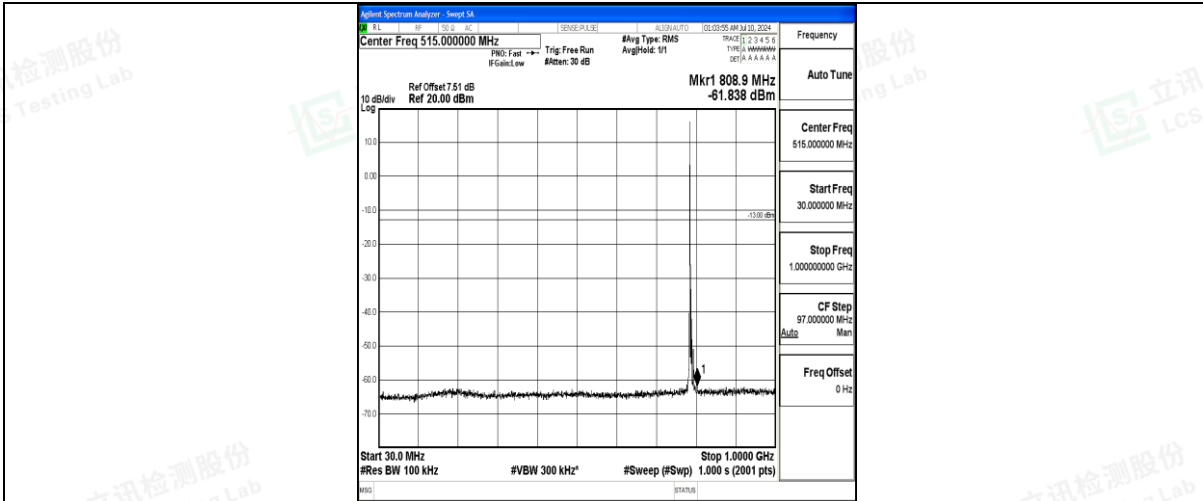
Band14\_5MHz\_16QAM\_23330\_1RB#0\_0.009~0.15\_0.009~0.15



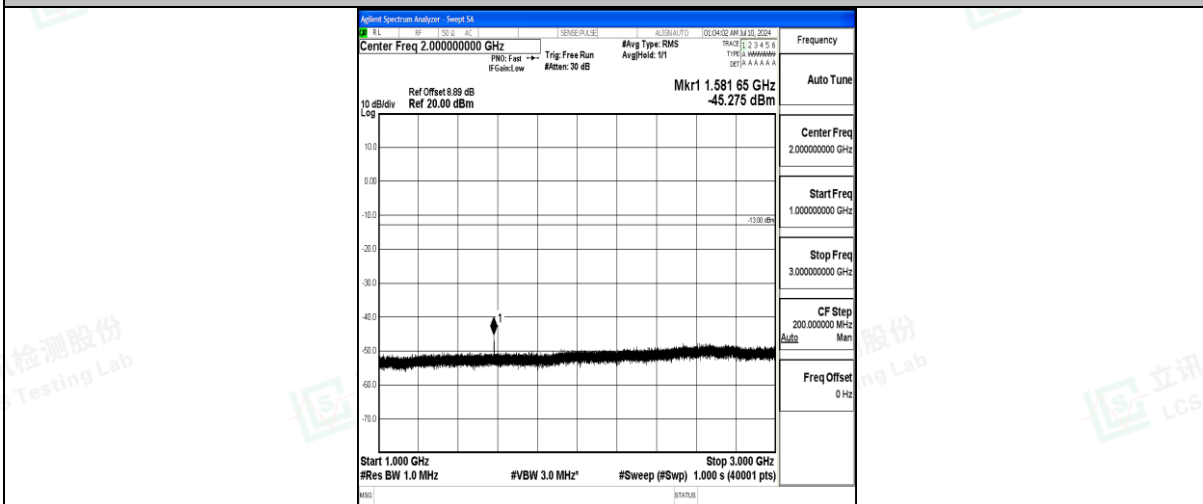
Band14\_5MHz\_16QAM\_23330\_1RB#0\_0.15~30\_0.15~30



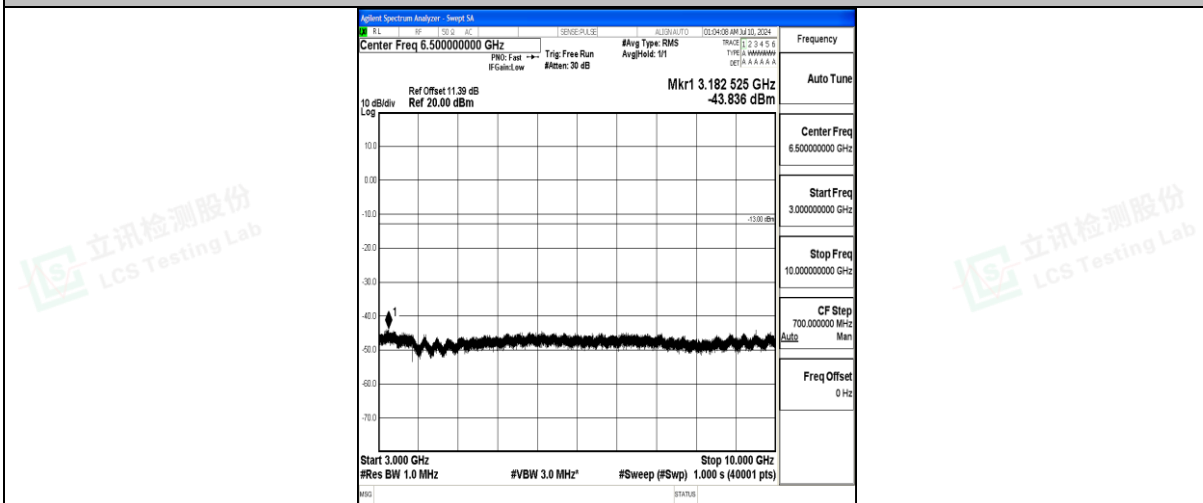




Band14\_5MHz\_16QAM\_23330\_1RB#0\_30~1000\_30~1000

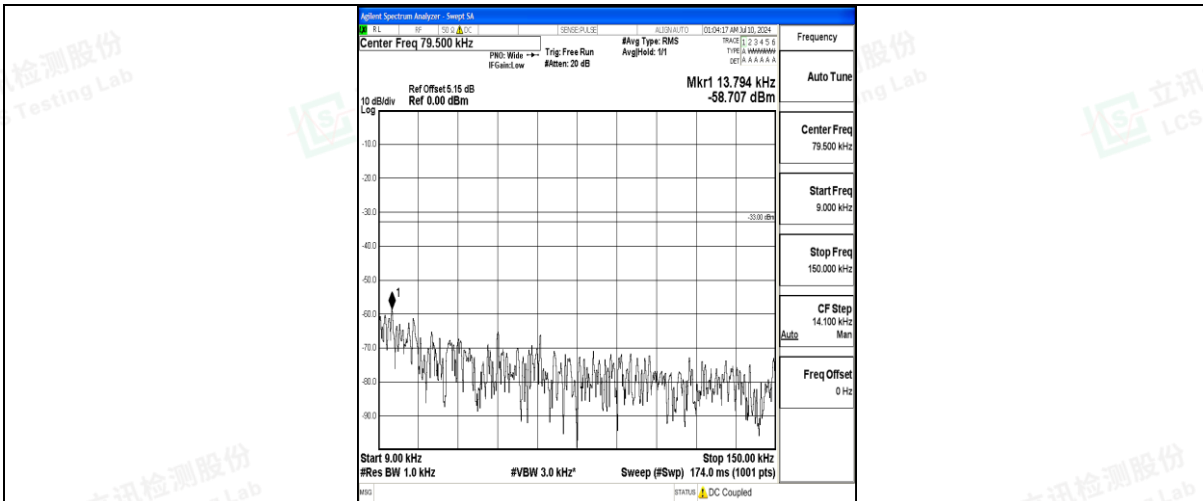


Band14\_5MHz\_16QAM\_23330\_1RB#0\_1000~3000\_1000~3000

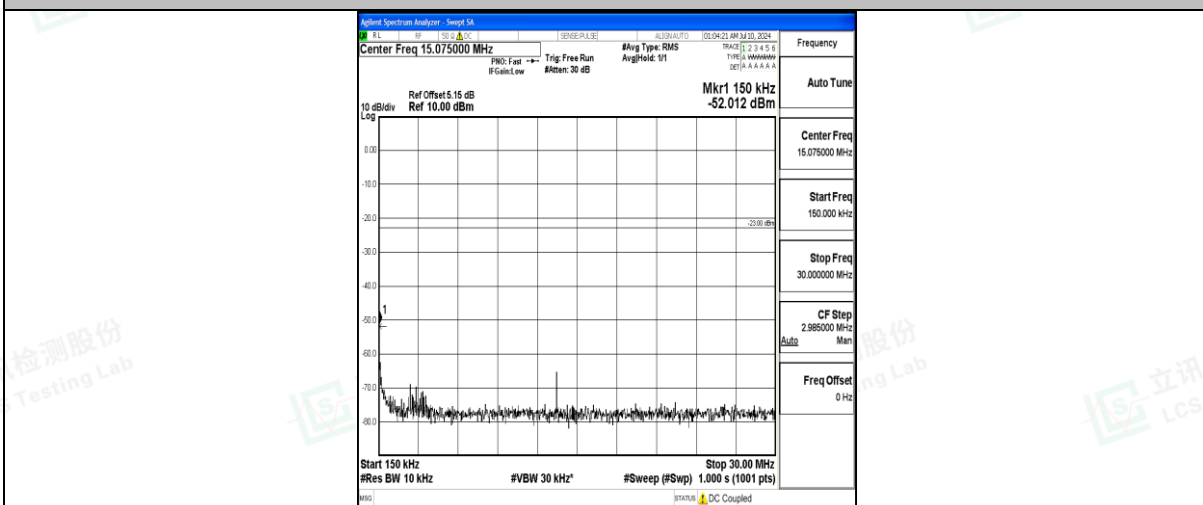


Band14\_5MHz\_16QAM\_23330\_1RB#0\_3000~10000\_3000~10000

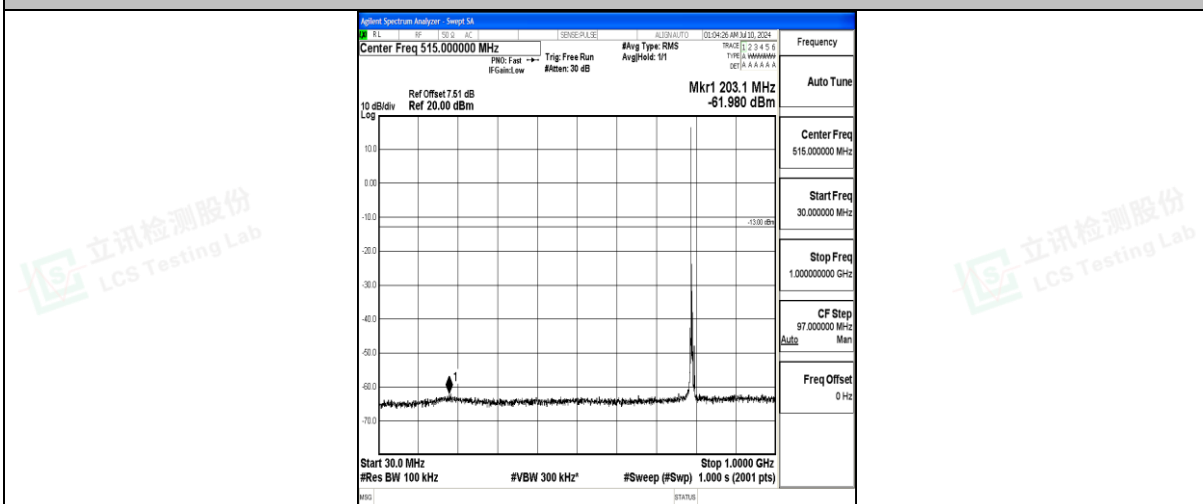




Band14\_5MHz\_QPSK\_23355\_1RB#0\_0.009~0.15\_0.009~0.15

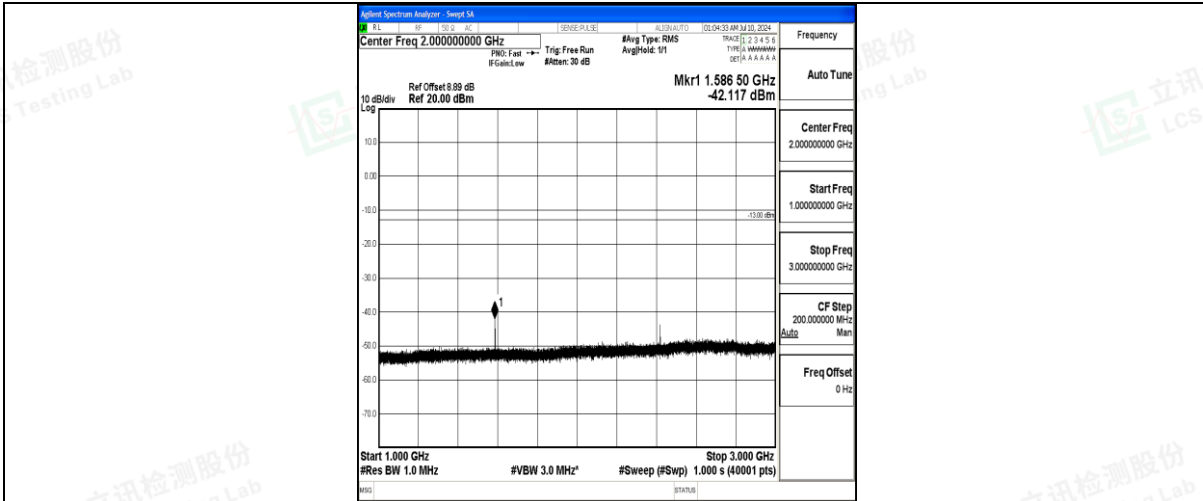


Band14\_5MHz\_QPSK\_23355\_1RB#0\_0.15~30\_0.15~30

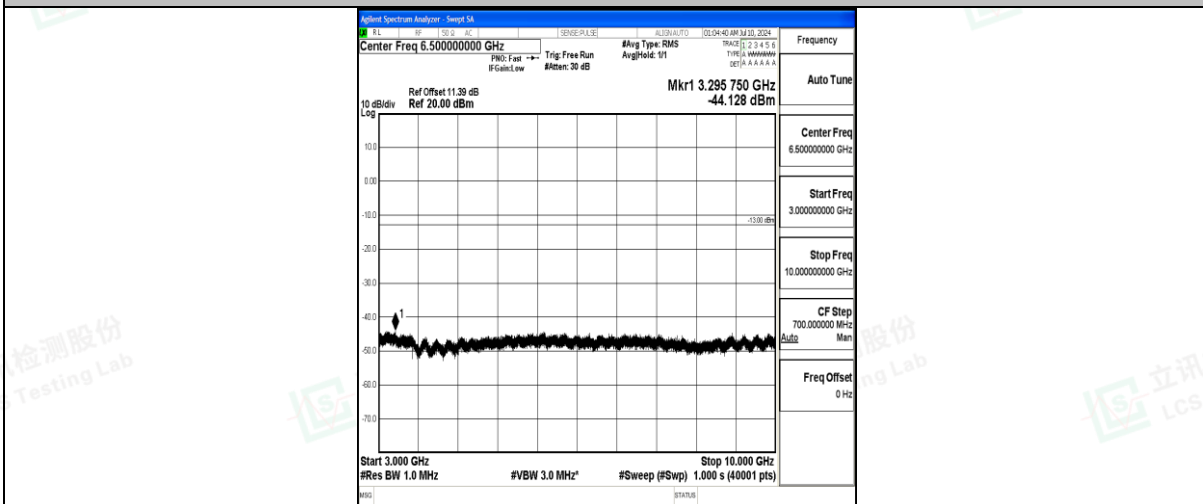


Band14\_5MHz\_QPSK\_23355\_1RB#0\_30~1000\_30~1000

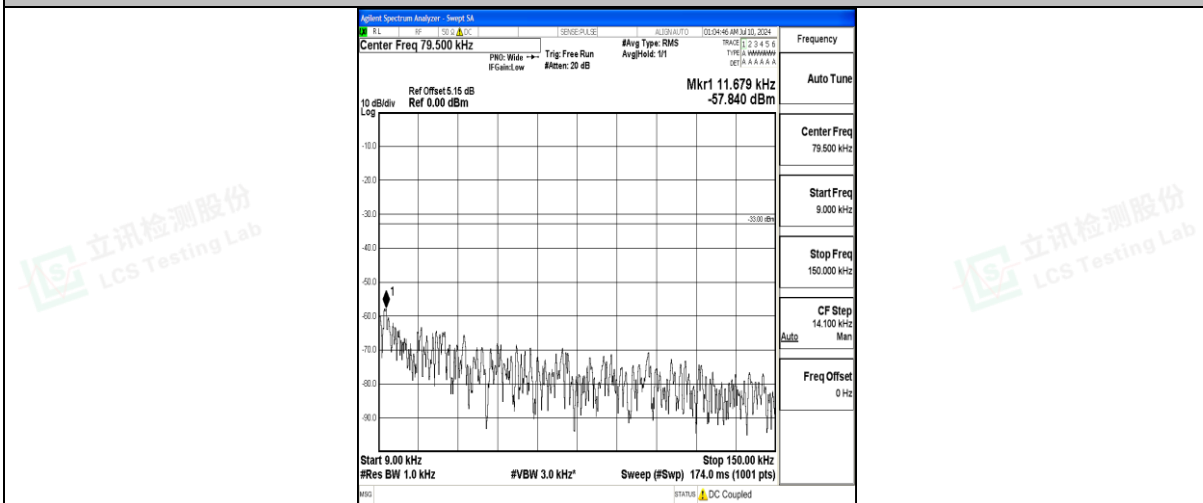




Band14\_5MHz\_QPSK\_23355\_1RB#0\_1000~3000\_1000~3000

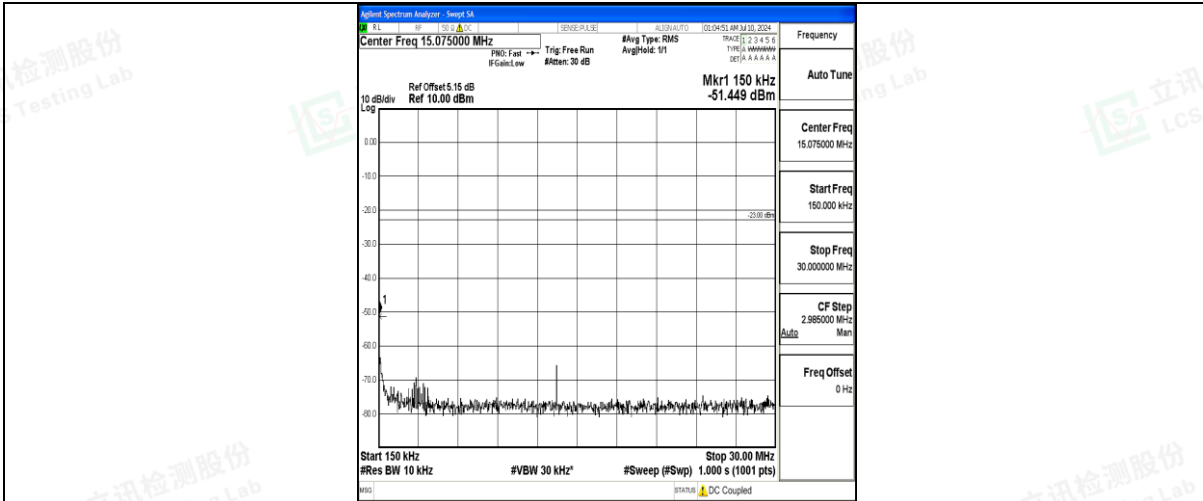


Band14\_5MHz\_QPSK\_23355\_1RB#0\_3000~10000\_3000~10000

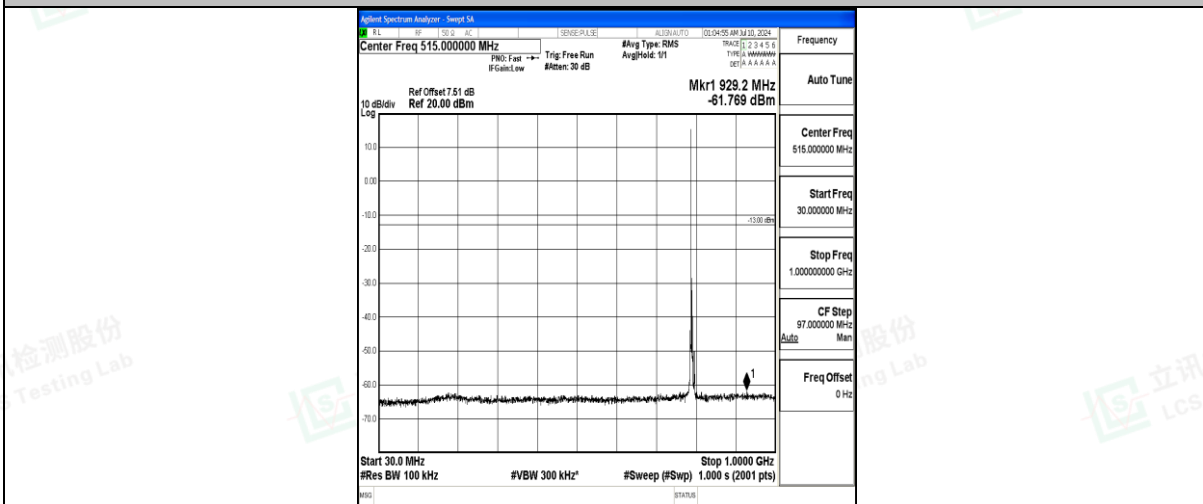


Band14\_5MHz\_16QAM\_23355\_1RB#0\_0.009~0.15\_0.009~0.15

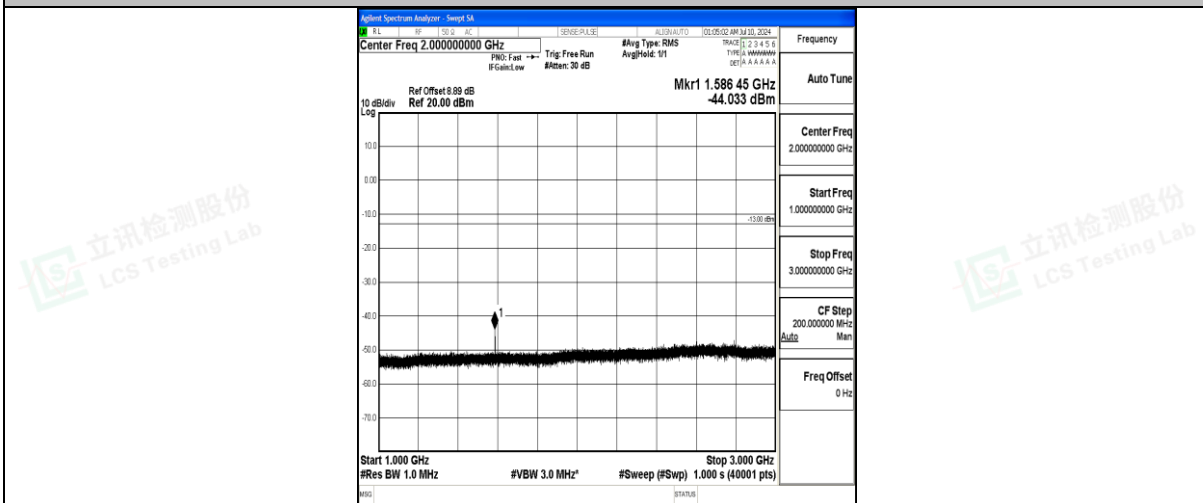




Band14\_5MHz\_16QAM\_23355\_1RB#0\_0.15~30\_0.15~30

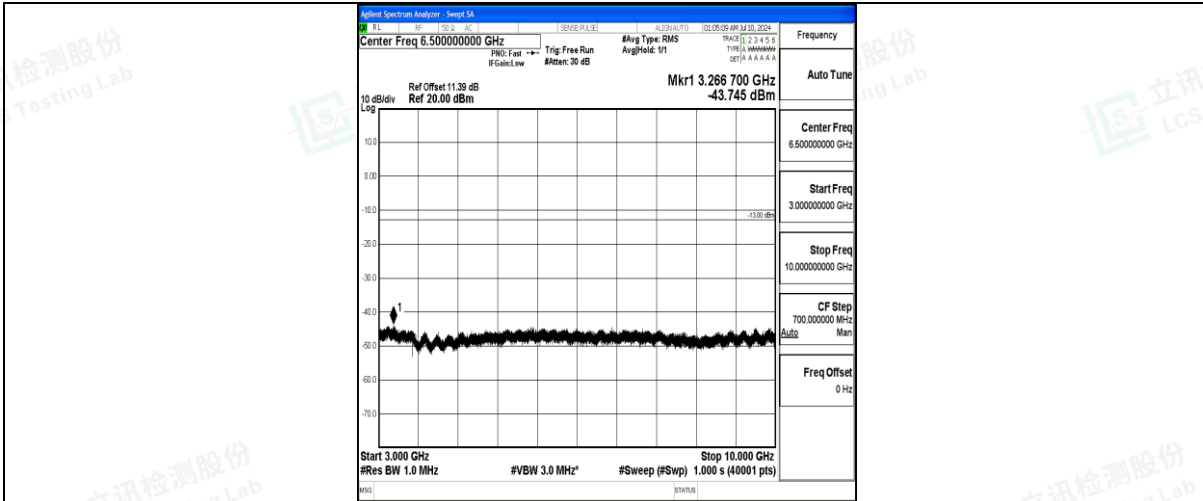


Band14\_5MHz\_16QAM\_23355\_1RB#0\_30~1000\_30~1000

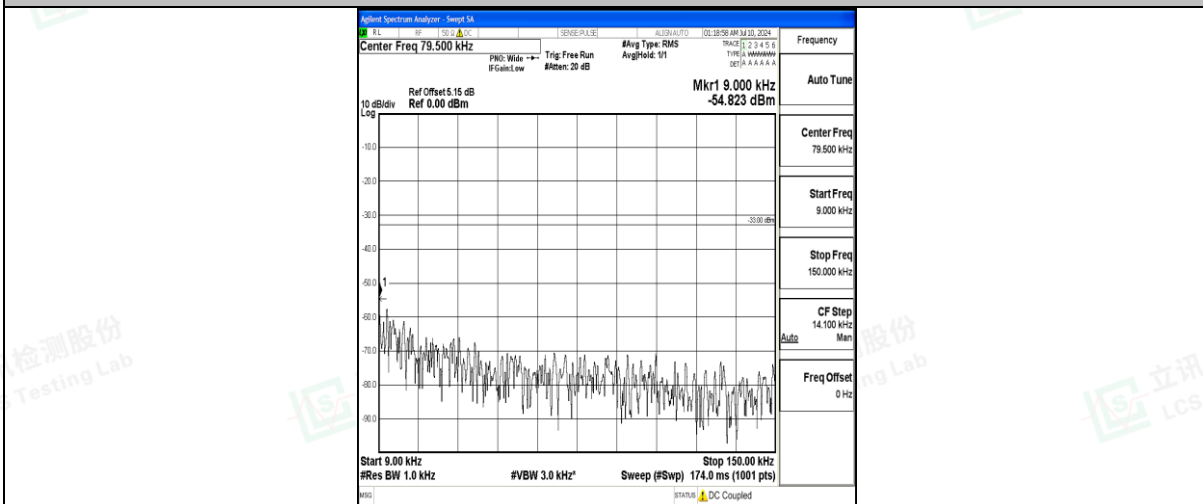


Band14\_5MHz\_16QAM\_23355\_1RB#0\_1000~3000\_1000~3000

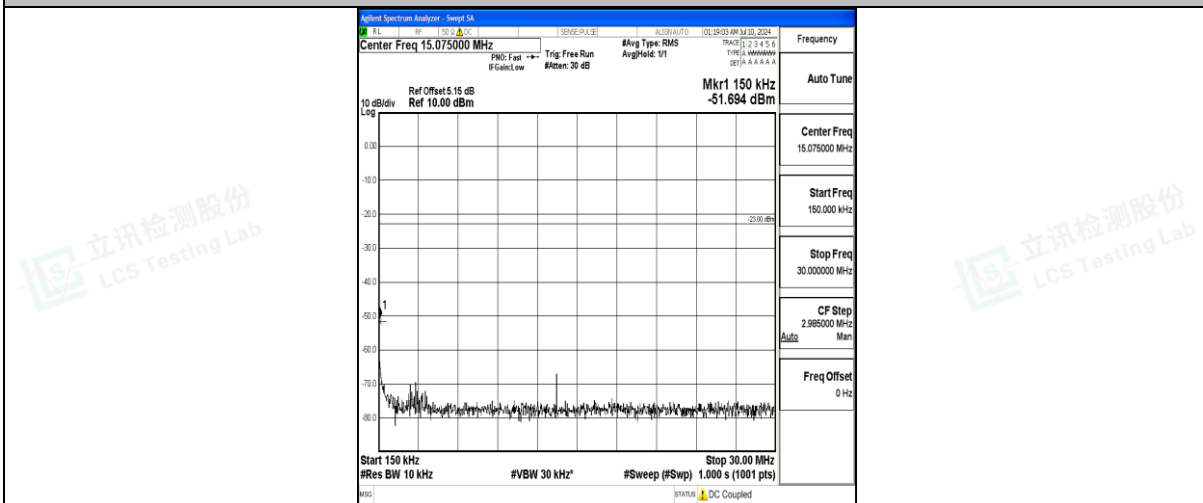




Band14\_5MHz\_16QAM\_23355\_1RB#0\_3000~10000\_3000~10000

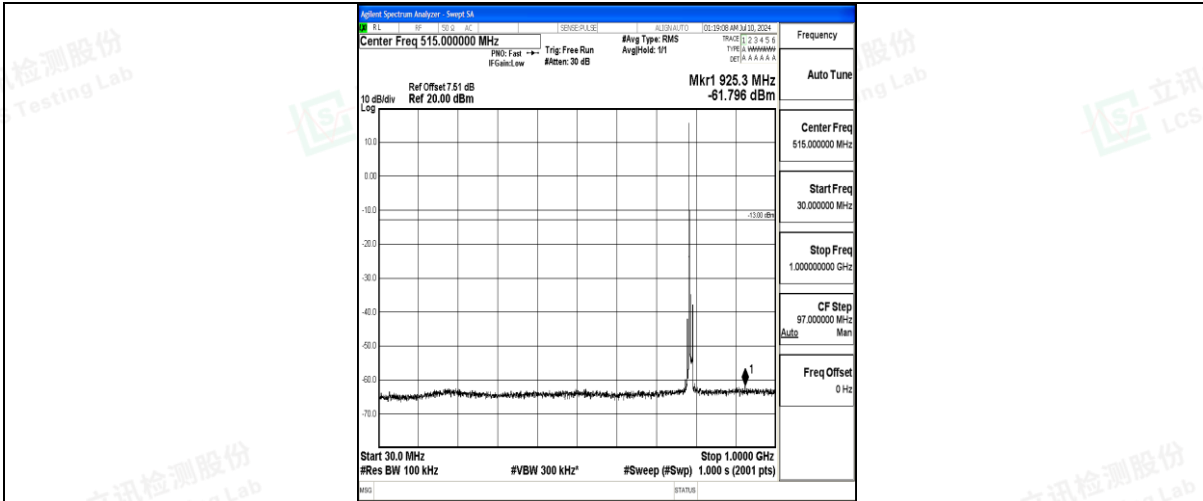


Band14\_10MHz\_QPSK\_23330\_1RB#0\_0.009~0.15\_0.009~0.15

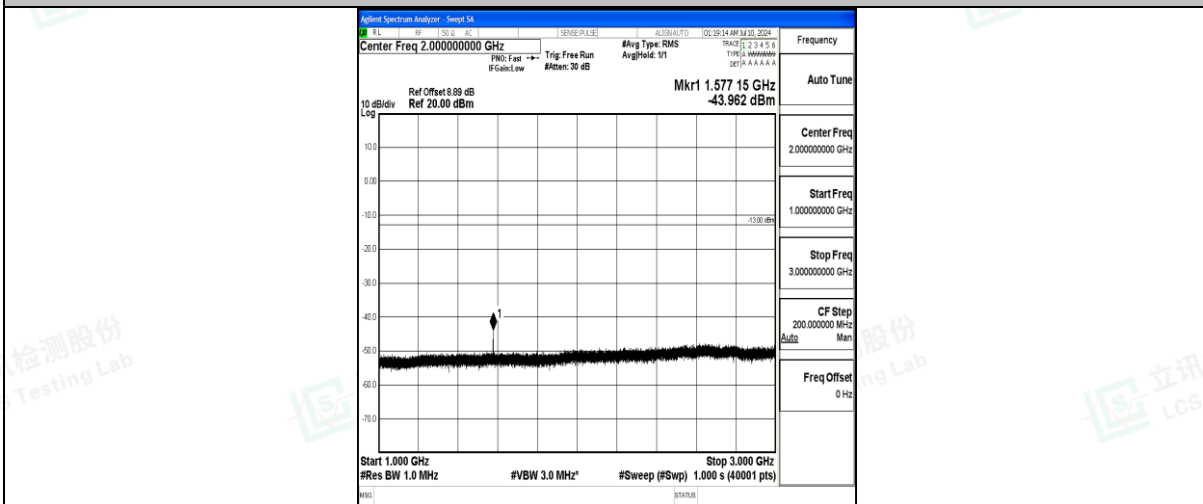


Band14\_10MHz\_QPSK\_23330\_1RB#0\_0.15~30\_0.15~30

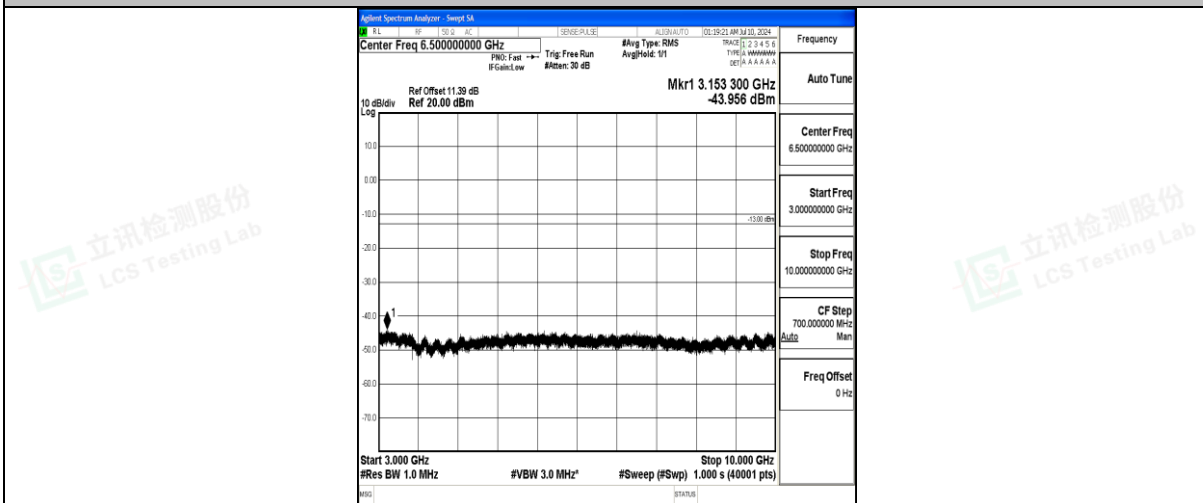




Band14\_10MHz\_QPSK\_23330\_1RB#0\_30~1000\_30~1000

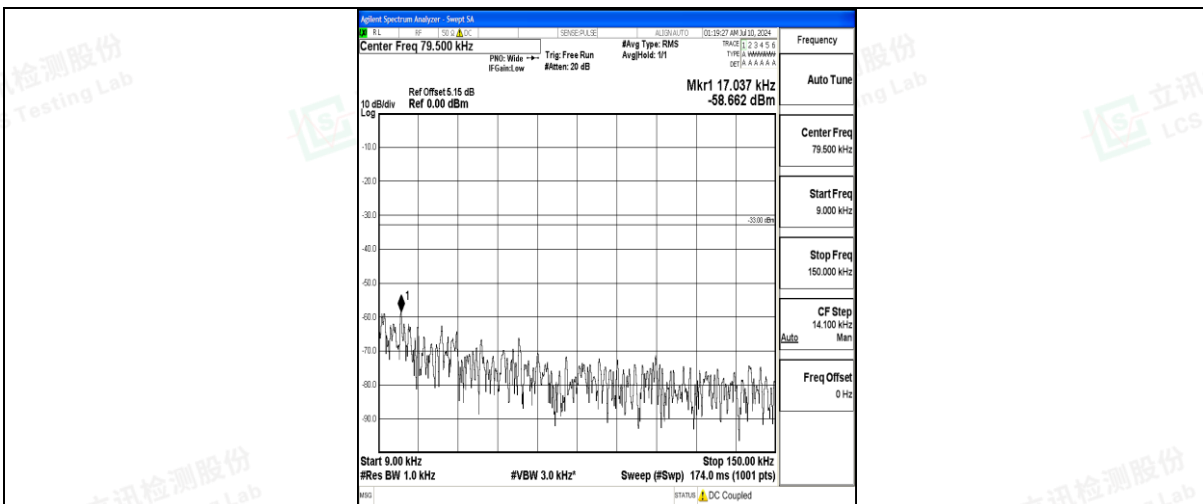


Band14\_10MHz\_QPSK\_23330\_1RB#0\_1000~3000\_1000~3000

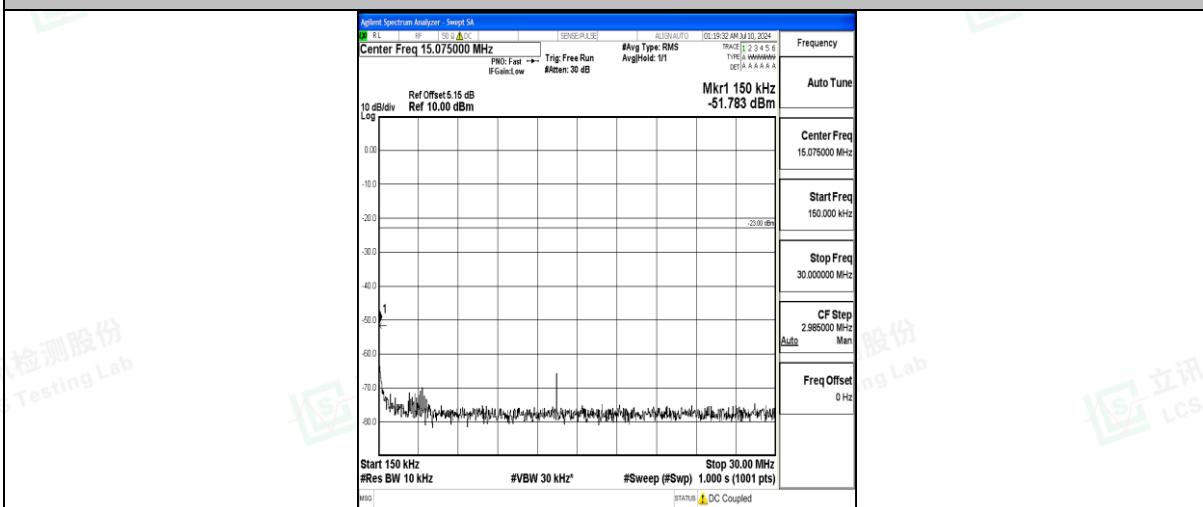


Band14\_10MHz\_QPSK\_23330\_1RB#0\_3000~10000\_3000~10000

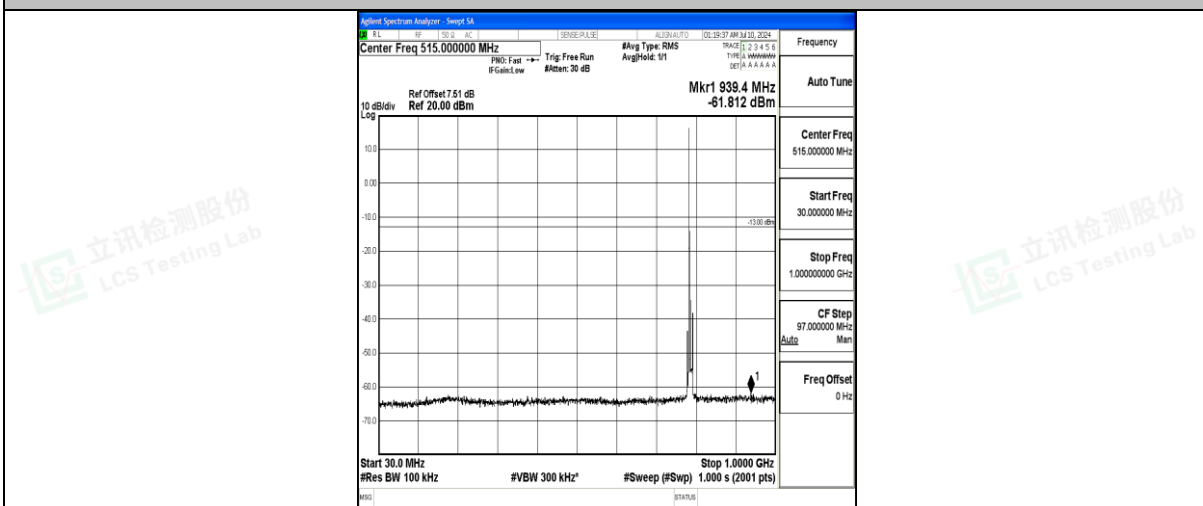




Band14\_10MHz\_16QAM\_23330\_1RB#0\_0.009~0.15\_0.009~0.15

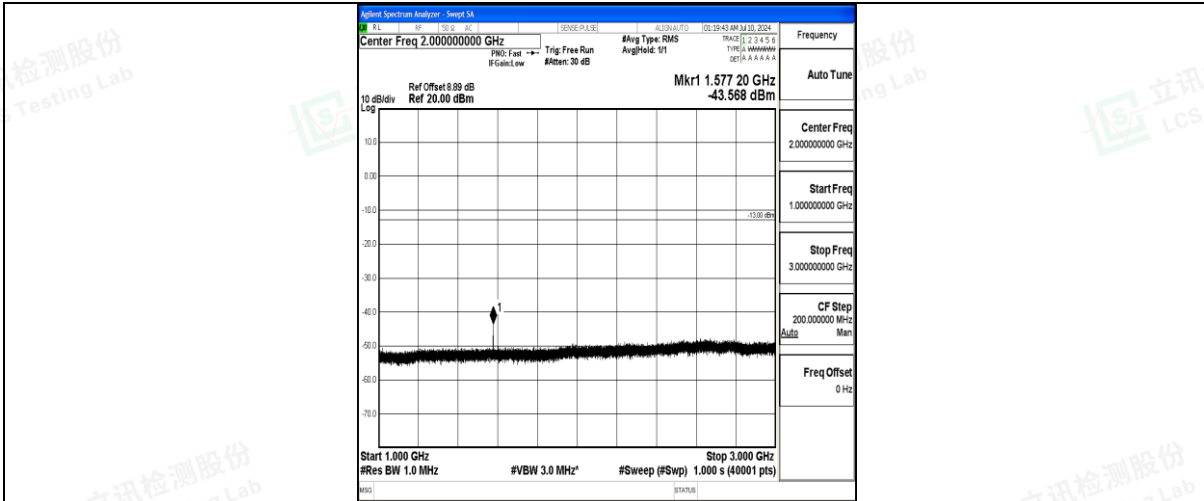


Band14\_10MHz\_16QAM\_23330\_1RB#0\_0.15~30\_0.15~30

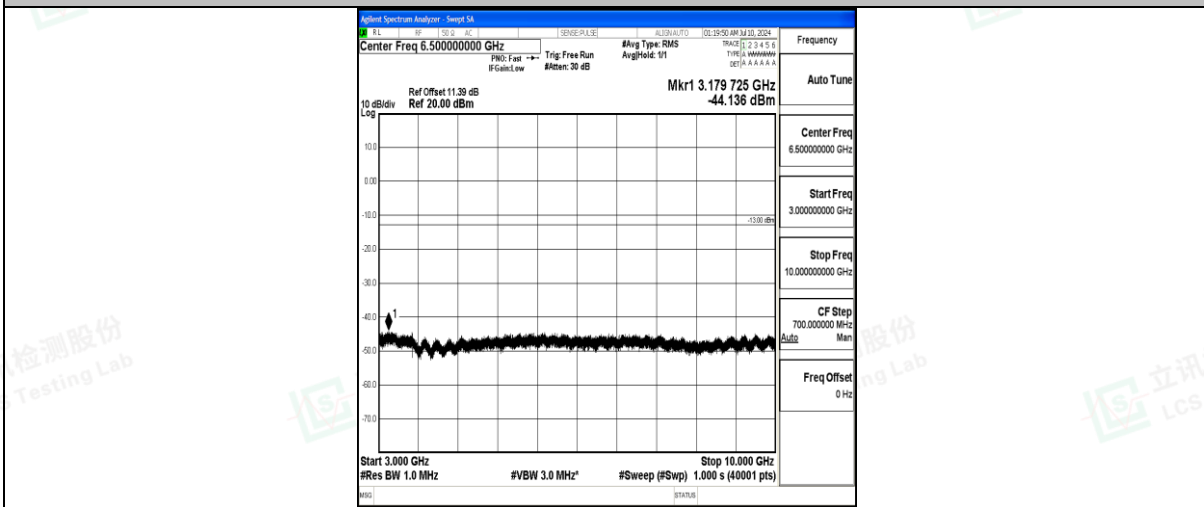


Band14\_10MHz\_16QAM\_23330\_1RB#0\_30~1000\_30~1000





Band14\_10MHz\_16QAM\_23330\_1RB#0\_1000~3000\_1000~3000



Band14\_10MHz\_16QAM\_23330\_1RB#0\_3000~10000\_3000~10000

