



Appendix D: Test Data for E-UTRA Band 4

Product Name: Pawfit Location and Activity Tracker (Pawfit pet Tracker)

Test Model: TR3A

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





D.1 Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	20.81	PASS
Band4	1.4MHz	19957	QPSK	1	5	Low	20.64	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	18.46	PASS
Band4	1.4MHz	20175	QPSK	1	0	Middle	20.53	PASS
Band4	1.4MHz	20175	QPSK	1	5	Middle	20.68	PASS
Band4	1.4MHz	20175	QPSK	6	0	Middle	18.45	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	20.47	PASS
Band4	1.4MHz	20393	QPSK	1	5	High	20.48	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	18.21	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	19.66	PASS
Band4	1.4MHz	19957	16QAM	1	5	Low	19.51	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	18.35	PASS
Band4	1.4MHz	20175	16QAM	1	0	Middle	19.64	PASS
Band4	1.4MHz	20175	16QAM	1	5	Middle	19.50	PASS
Band4	1.4MHz	20175	16QAM	6	0	Middle	18.44	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	19.55	PASS
Band4	1.4MHz	20393	16QAM	1	5	High	19.38	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	18.30	PASS
Band4	3MHz	19965	QPSK	1	0	Low	20.75	PASS
Band4	3MHz	19965	QPSK	1	5	Low	20.62	PASS
Band4	3MHz	19965	QPSK	6	0	Low	18.39	PASS
Band4	3MHz	20175	QPSK	1	0	Middle	20.65	PASS
Band4	3MHz	20175	QPSK	1	5	Middle	20.57	PASS
Band4	3MHz	20175	QPSK	6	0	Middle	18.50	PASS
Band4	3MHz	20385	QPSK	1	0	High	20.54	PASS
Band4	3MHz	20385	QPSK	1	5	High	20.51	PASS
Band4	3MHz	20385	QPSK	6	0	High	18.20	PASS
Band4	3MHz	19965	16QAM	1	0	Low	19.75	PASS
Band4	3MHz	19965	16QAM	1	5	Low	19.56	PASS
Band4	3MHz	19965	16QAM	6	0	Low	18.49	PASS
Band4	3MHz	20175	16QAM	1	0	Middle	19.76	PASS
Band4	3MHz	20175	16QAM	1	5	Middle	19.46	PASS
Band4	3MHz	20175	16QAM	6	0	Middle	18.41	PASS





Band4	3MHz	20385	16QAM	1	0	High	19.58	PASS
Band4	3MHz	20385	16QAM	1	5	High	19.46	PASS
Band4	3MHz	20385	16QAM	6	0	High	18.31	PASS
Band4	5MHz	19975	QPSK	1	0	Low	20.90	PASS
Band4	5MHz	19975	QPSK	1	5	Low	20.77	PASS
Band4	5MHz	19975	QPSK	6	0	Low	19.77	PASS
Band4	5MHz	20175	QPSK	1	0	Middle	20.67	PASS
Band4	5MHz	20175	QPSK	1	5	Middle	20.83	PASS
Band4	5MHz	20175	QPSK	6	0	Middle	19.67	PASS
Band4	5MHz	20375	QPSK	1	0	High	20.40	PASS
Band4	5MHz	20375	QPSK	1	5	High	20.46	PASS
Band4	5MHz	20375	QPSK	6	0	High	19.29	PASS
Band4	5MHz	19975	16QAM	1	0	Low	21.15	PASS
Band4	5MHz	19975	16QAM	1	5	Low	21.13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	19.54	PASS
Band4	5MHz	20175	16QAM	1	0	Middle	20.72	PASS
Band4	5MHz	20175	16QAM	1	5	Middle	20.77	PASS
Band4	5MHz	20175	16QAM	6	0	Middle	19.39	PASS
Band4	5MHz	20375	16QAM	1	0	High	20.76	PASS
Band4	5MHz	20375	16QAM	1	5	High	20.65	PASS
Band4	5MHz	20375	16QAM	6	0	High	19.30	PASS
Band4	10MHz	20000	QPSK	1	0	Low	20.86	PASS
Band4	10MHz	20000	QPSK	1	5	Low	20.79	PASS
Band4	10MHz	20000	QPSK	6	0	Low	19.73	PASS
Band4	10MHz	20175	QPSK	1	0	Middle	20.70	PASS
Band4	10MHz	20175	QPSK	1	5	Middle	20.84	PASS
Band4	10MHz	20175	QPSK	6	0	Middle	19.64	PASS
Band4	10MHz	20350	QPSK	1	0	High	20.41	PASS
Band4	10MHz	20350	QPSK	1	5	High	20.48	PASS
Band4	10MHz	20350	QPSK	6	0	High	19.32	PASS
Band4	10MHz	20000	16QAM	1	0	Low	21.08	PASS
Band4	10MHz	20000	16QAM	1	5	Low	21.14	PASS
Band4	10MHz	20000	16QAM	6	0	Low	19.55	PASS
Band4	10MHz	20175	16QAM	1	0	Middle	20.81	PASS
Band4	10MHz	20175	16QAM	1	5	Middle	20.78	PASS
Band4	10MHz	20175	16QAM	6	0	Middle	19.39	PASS
Band4	10MHz	20350	16QAM	1	0	High	20.83	PASS
Band4	10MHz	20350	16QAM	1	5	High	20.65	PASS
Band4	10MHz	20350	16QAM	6	0	High	19.33	PASS
Band4	15MHz	20025	QPSK	1	0	Low	20.80	PASS





Band4	15MHz	20025	QPSK	1	5	Low	20.79	PASS
Band4	15MHz	20025	QPSK	6	0	Low	20.80	PASS
Band4	15MHz	20175	QPSK	1	0	Middle	20.74	PASS
Band4	15MHz	20175	QPSK	1	5	Middle	20.91	PASS
Band4	15MHz	20175	QPSK	6	0	Middle	20.92	PASS
Band4	15MHz	20325	QPSK	1	0	High	20.42	PASS
Band4	15MHz	20325	QPSK	1	5	High	20.48	PASS
Band4	15MHz	20325	QPSK	6	0	High	20.43	PASS
Band4	15MHz	20025	16QAM	1	0	Low	21.17	PASS
Band4	15MHz	20025	16QAM	1	5	Low	20.77	PASS
Band4	15MHz	20025	16QAM	6	0	Low	20.73	PASS
Band4	15MHz	20175	16QAM	1	0	Middle	20.85	PASS
Band4	15MHz	20175	16QAM	1	5	Middle	20.80	PASS
Band4	15MHz	20175	16QAM	6	0	Middle	20.65	PASS
Band4	15MHz	20325	16QAM	1	0	High	20.79	PASS
Band4	15MHz	20325	16QAM	1	5	High	20.66	PASS
Band4	15MHz	20325	16QAM	6	0	High	20.43	PASS
Band4	20MHz	20050	QPSK	1	0	Low	20.89	PASS
Band4	20MHz	20050	QPSK	1	5	Low	20.84	PASS
Band4	20MHz	20050	QPSK	6	0	Low	20.80	PASS
Band4	20MHz	20175	QPSK	1	0	Middle	20.74	PASS
Band4	20MHz	20175	QPSK	1	5	Middle	20.92	PASS
Band4	20MHz	20175	QPSK	6	0	Middle	20.84	PASS
Band4	20MHz	20300	QPSK	1	0	High	20.39	PASS
Band4	20MHz	20300	QPSK	1	5	High	20.48	PASS
Band4	20MHz	20300	QPSK	6	0	High	20.36	PASS
Band4	20MHz	20050	16QAM	1	0	Low	21.15	PASS
Band4	20MHz	20050	16QAM	1	5	Low	21.14	PASS
Band4	20MHz	20050	16QAM	6	0	Low	20.73	PASS
Band4	20MHz	20175	16QAM	1	0	Middle	20.77	PASS
Band4	20MHz	20175	16QAM	1	5	Middle	20.86	PASS
Band4	20MHz	20175	16QAM	6	0	Middle	20.65	PASS
Band4	20MHz	20300	16QAM	1	0	High	20.81	PASS
Band4	20MHz	20300	16QAM	1	5	High	20.69	PASS
Band4	20MHz	20300	16QAM	6	0	High	20.37	PASS





D.2 Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Verdict
Band4	1.4MHz	19957	QPSK	6	0	Low	8.04	PASS
Band4	1.4MHz	20175	QPSK	6	0	Middle	11.83	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	9.90	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	9.31	PASS
Band4	1.4MHz	20175	16QAM	6	0	Middle	11.28	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	9.88	PASS
Band4	3MHz	19965	QPSK	6	0	Low	9.17	PASS
Band4	3MHz	20175	QPSK	6	0	Middle	11.61	PASS
Band4	3MHz	20385	QPSK	6	0	High	9.97	PASS
Band4	3MHz	19965	16QAM	6	0	Low	9.78	PASS
Band4	3MHz	20175	16QAM	6	0	Middle	11.20	PASS
Band4	3MHz	20385	16QAM	6	0	High	9.04	PASS
Band4	5MHz	19975	QPSK	6	0	Low	8.82	PASS
Band4	5MHz	20175	QPSK	6	0	Middle	9.65	PASS
Band4	5MHz	20375	QPSK	6	0	High	10.08	PASS
Band4	5MHz	19975	16QAM	6	0	Low	8.96	PASS
Band4	5MHz	20175	16QAM	6	0	Middle	10.62	PASS
Band4	5MHz	20375	16QAM	6	0	High	12.50	PASS
Band4	10MHz	20000	QPSK	6	0	Low	9.74	PASS
Band4	10MHz	20175	QPSK	6	0	Middle	9.25	PASS
Band4	10MHz	20350	QPSK	6	0	High	8.87	PASS
Band4	10MHz	20000	16QAM	6	0	Low	10.08	PASS
Band4	10MHz	20175	16QAM	6	0	Middle	9.11	PASS
Band4	10MHz	20350	16QAM	6	0	High	8.38	PASS
Band4	15MHz	20025	QPSK	6	0	Low	9.16	PASS
Band4	15MHz	20175	QPSK	6	0	Middle	9.69	PASS
Band4	15MHz	20325	QPSK	6	0	High	8.58	PASS
Band4	15MHz	20025	16QAM	6	0	Low	9.05	PASS
Band4	15MHz	20175	16QAM	6	0	Middle	8.42	PASS
Band4	15MHz	20325	16QAM	6	0	High	8.53	PASS
Band4	20MHz	20050	QPSK	6	0	Low	9.47	PASS
Band4	20MHz	20175	QPSK	6	0	Middle	8.83	PASS
Band4	20MHz	20300	QPSK	6	0	High	8.79	PASS





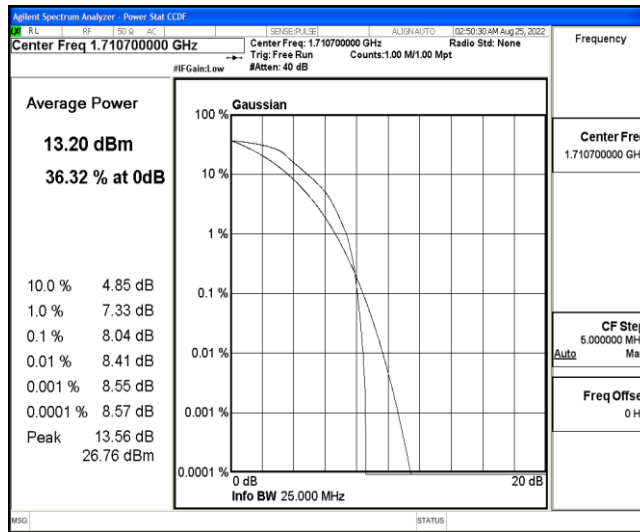
Band4	20MHz	20050	16QAM	6	0	Low	7.77	PASS
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Band4	20MHz	20300	16QAM	6	0	High	11.43	PASS



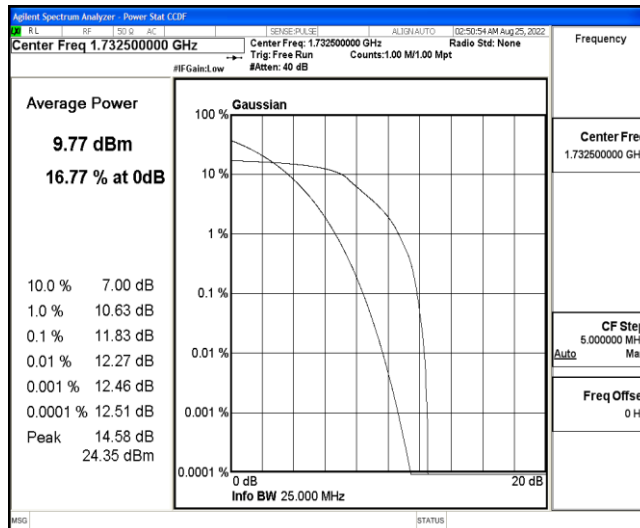
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



Test Graphs

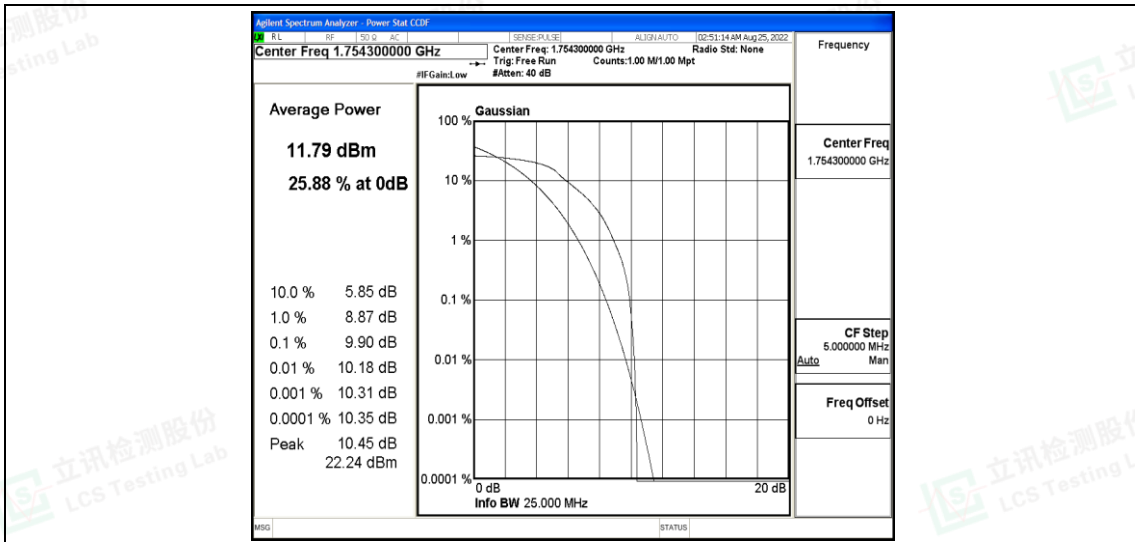


Band4-1.4MHz-QPSK-19957-6-0-Low-8.04-<=13-PASS

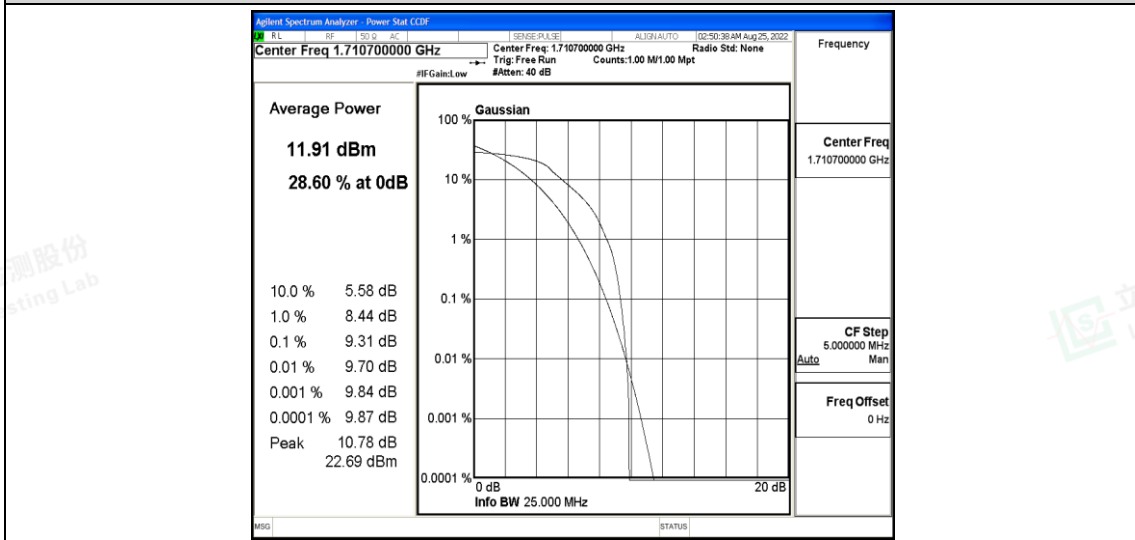


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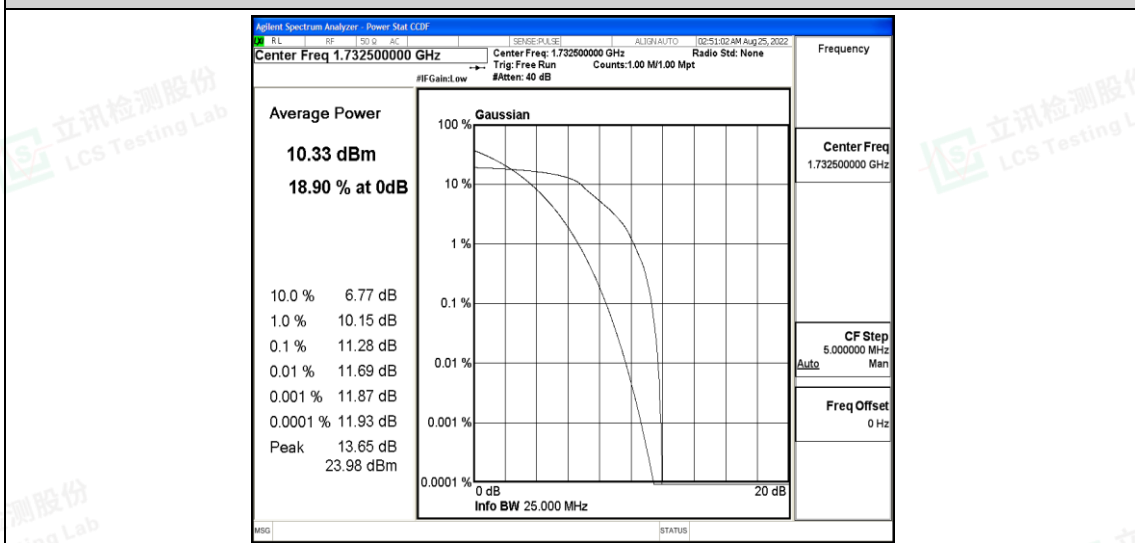




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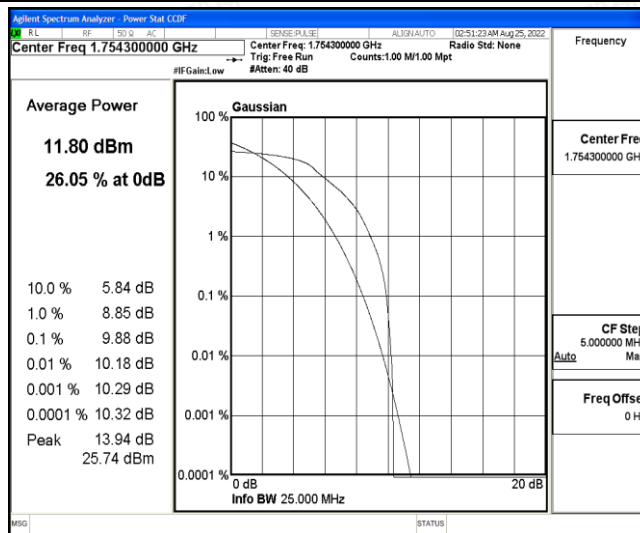


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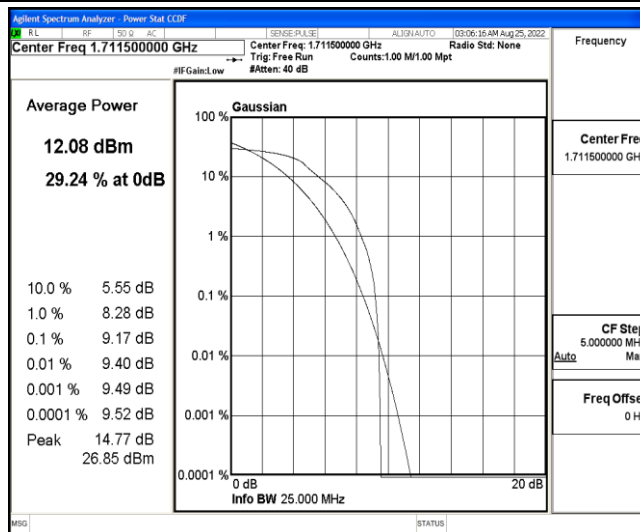


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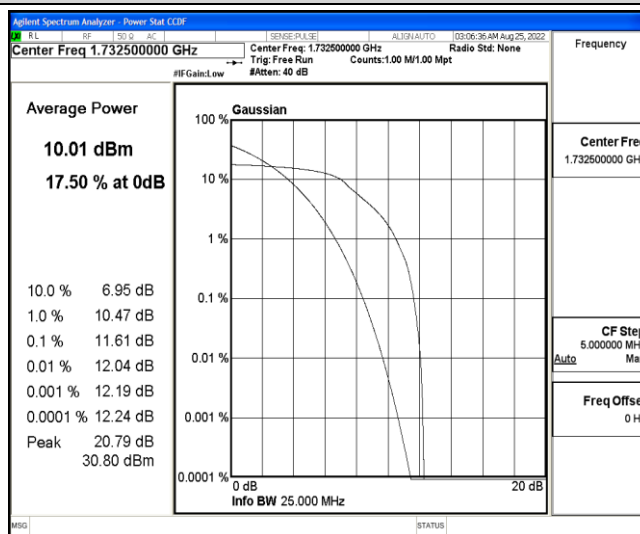




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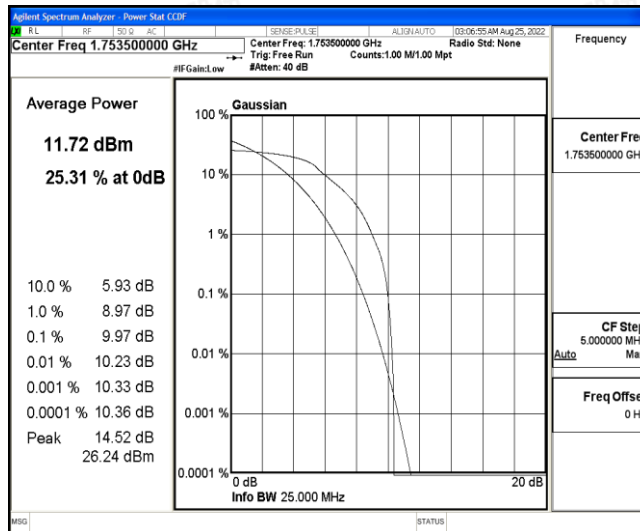


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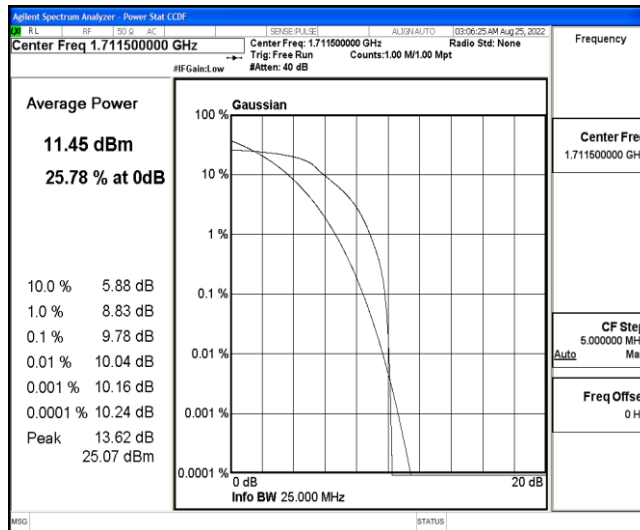


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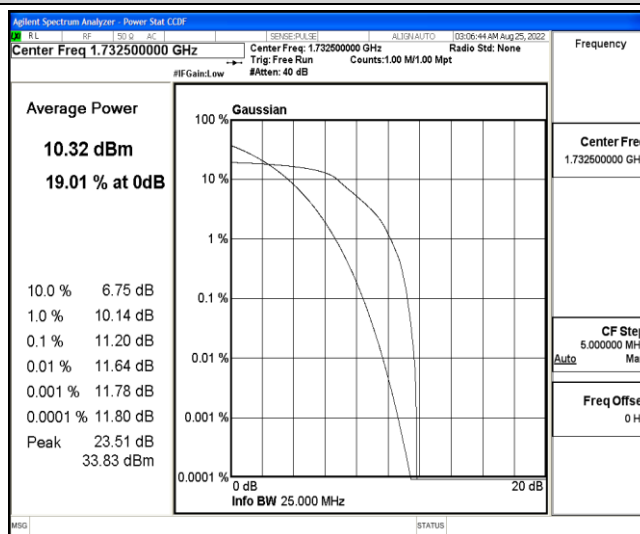




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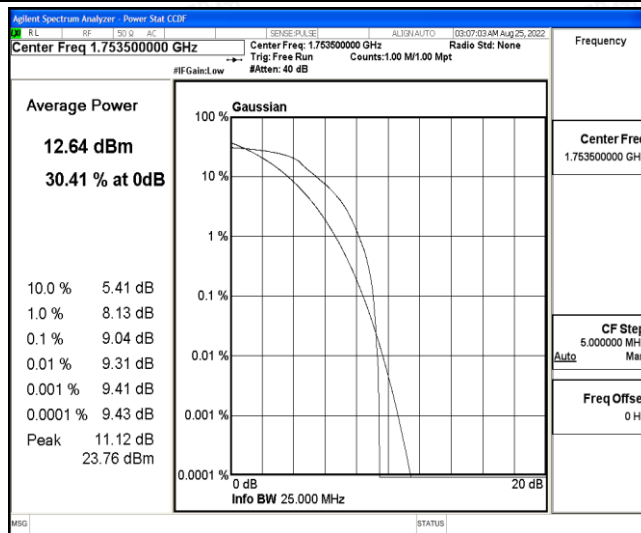


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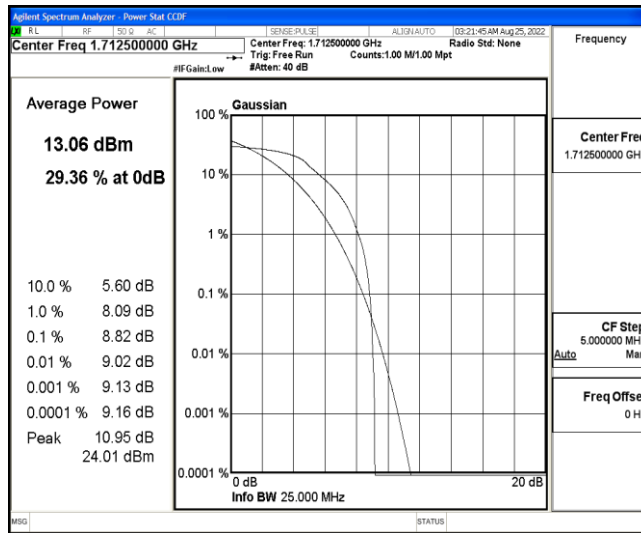


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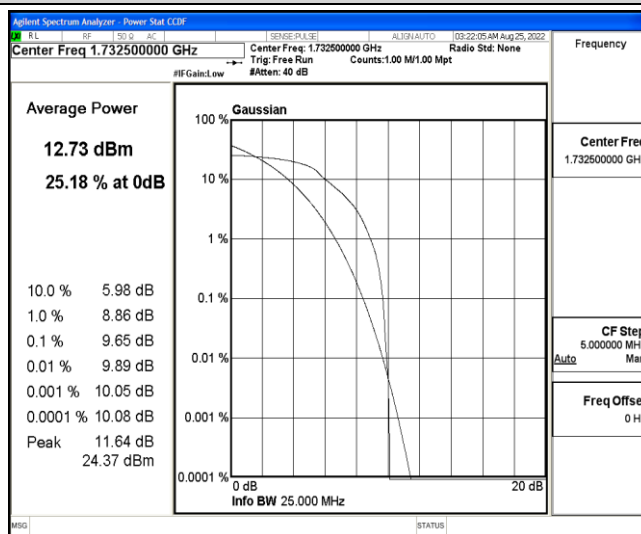




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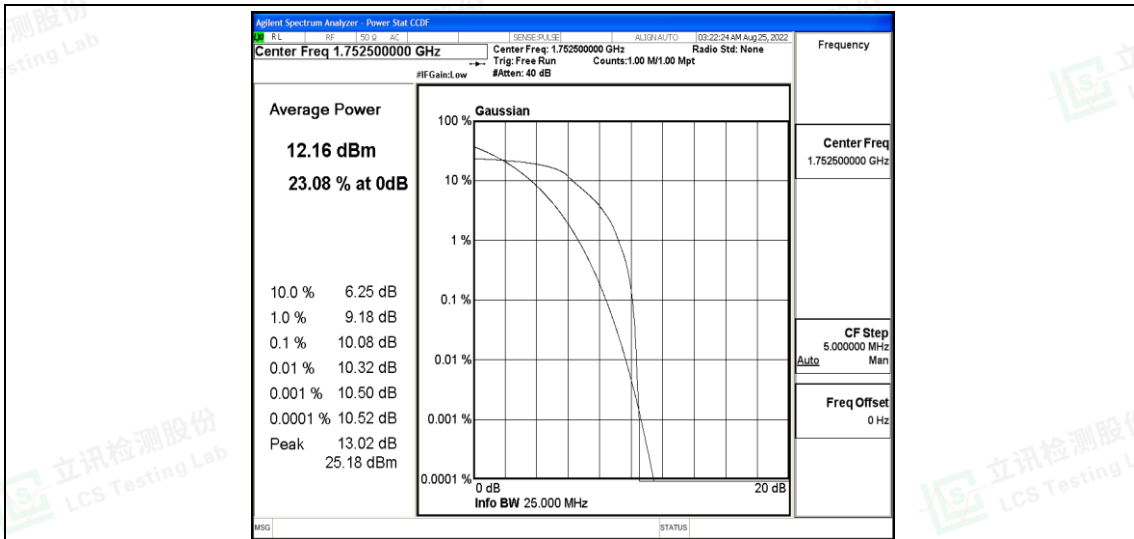


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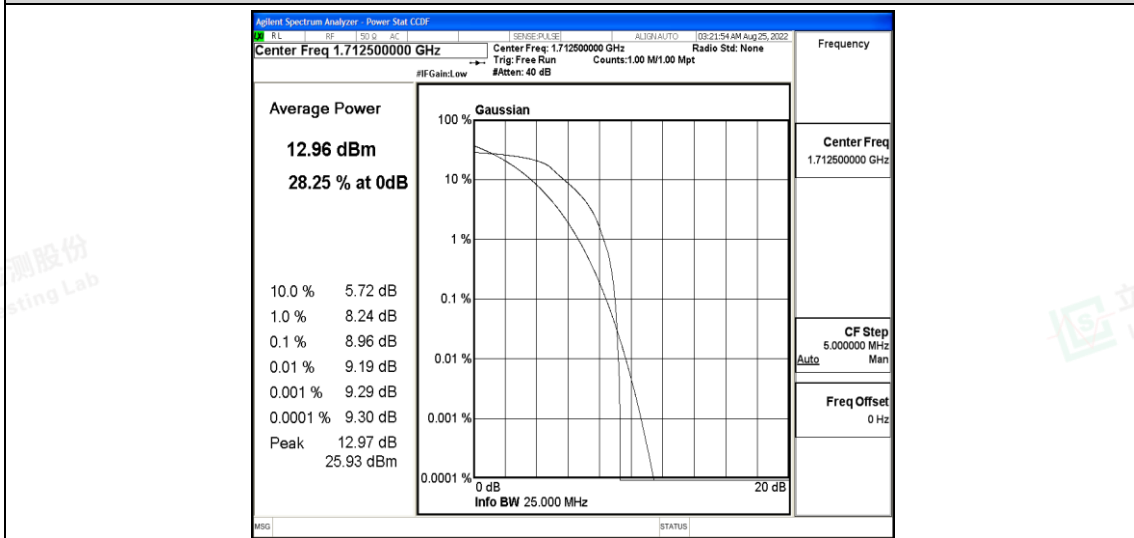


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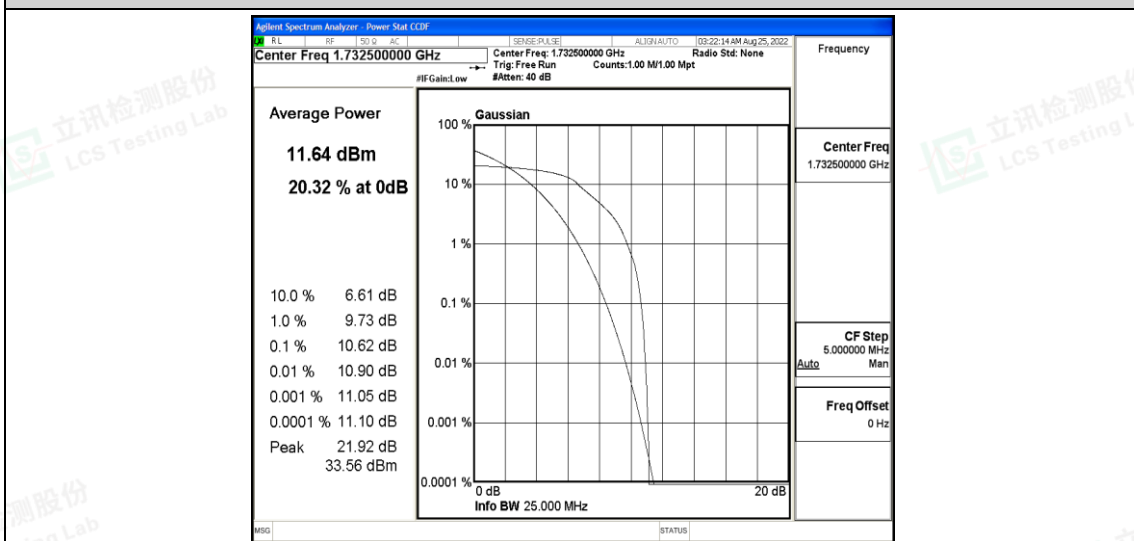




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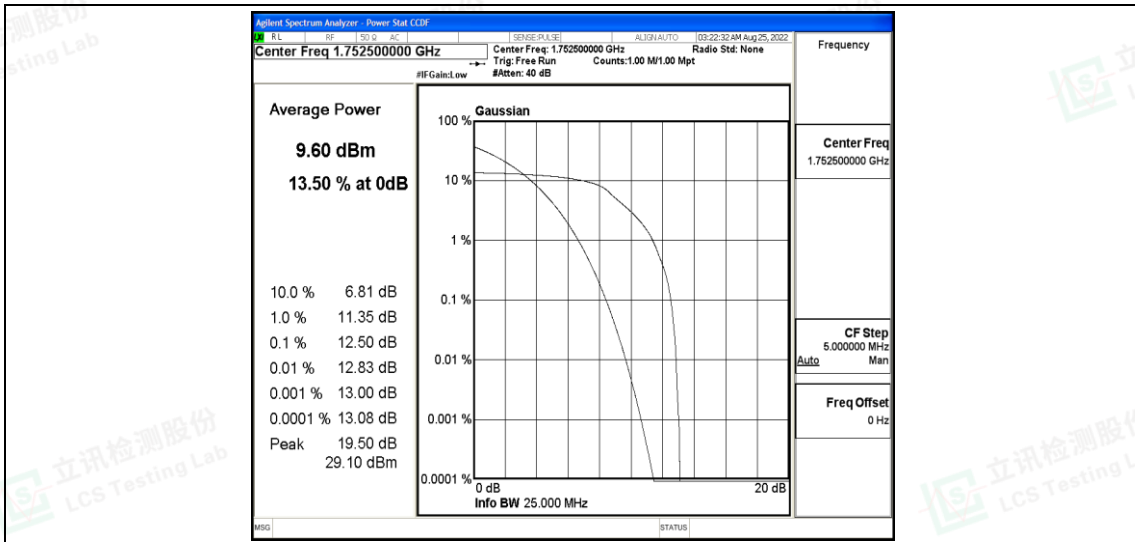


Band4-5MHz-16QAM-19975-6-0-Low-8.96-<=13-PASS

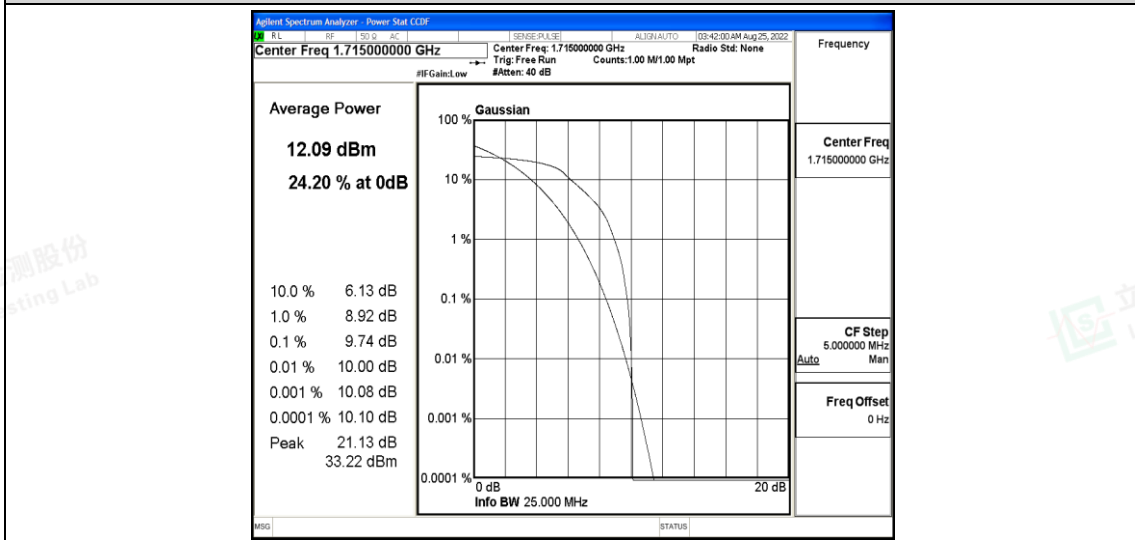


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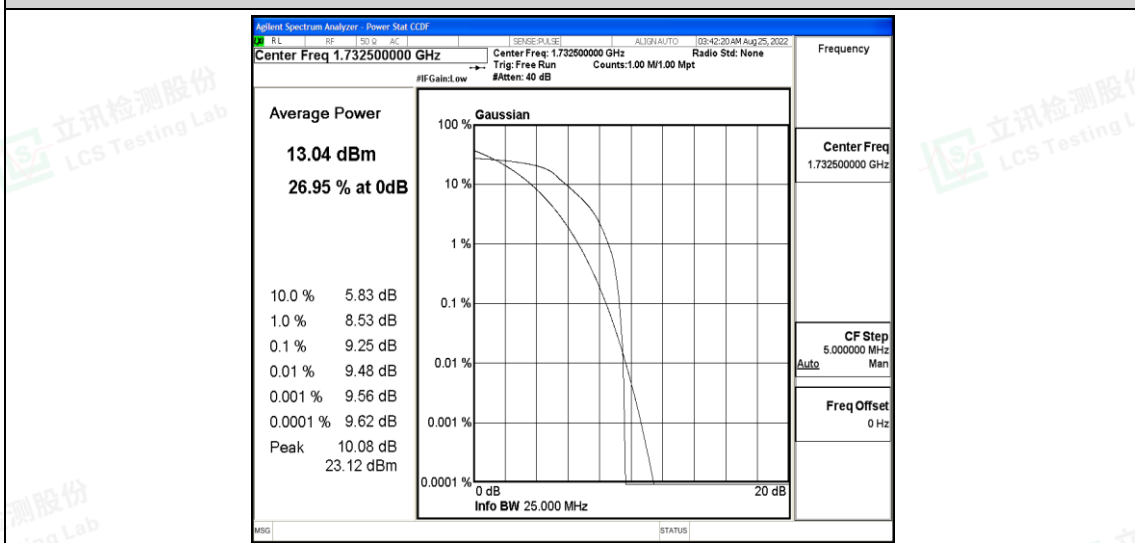




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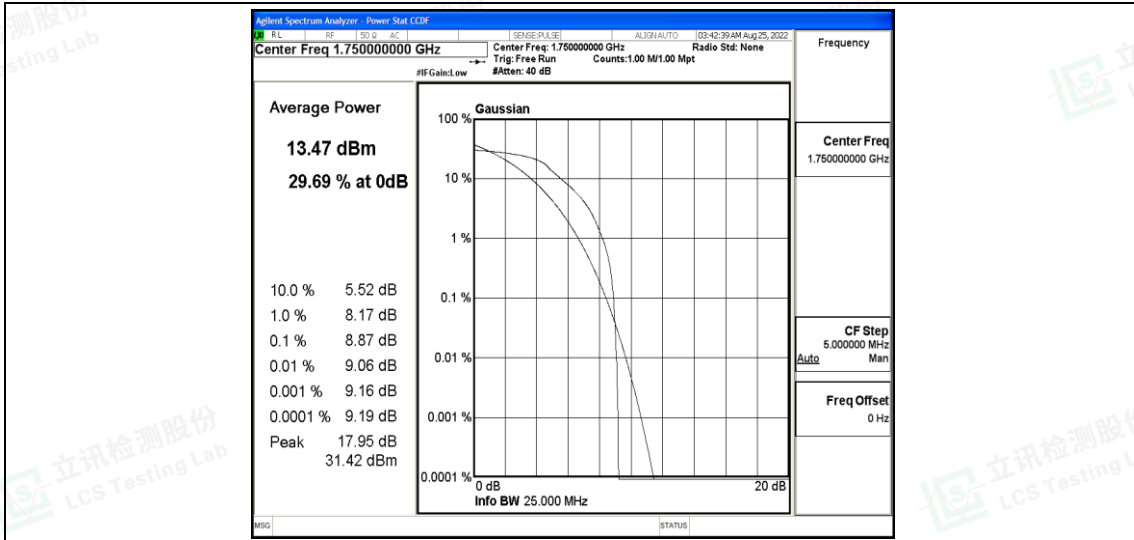


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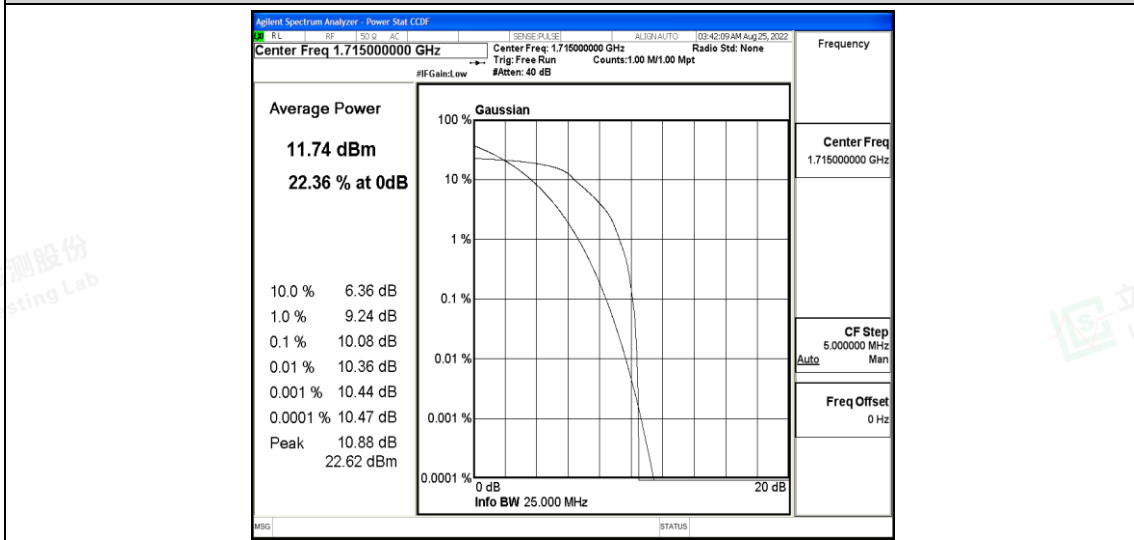


Band4-10MHz-QPSK-20175-6-0-Low-9.25-<=13-PASS

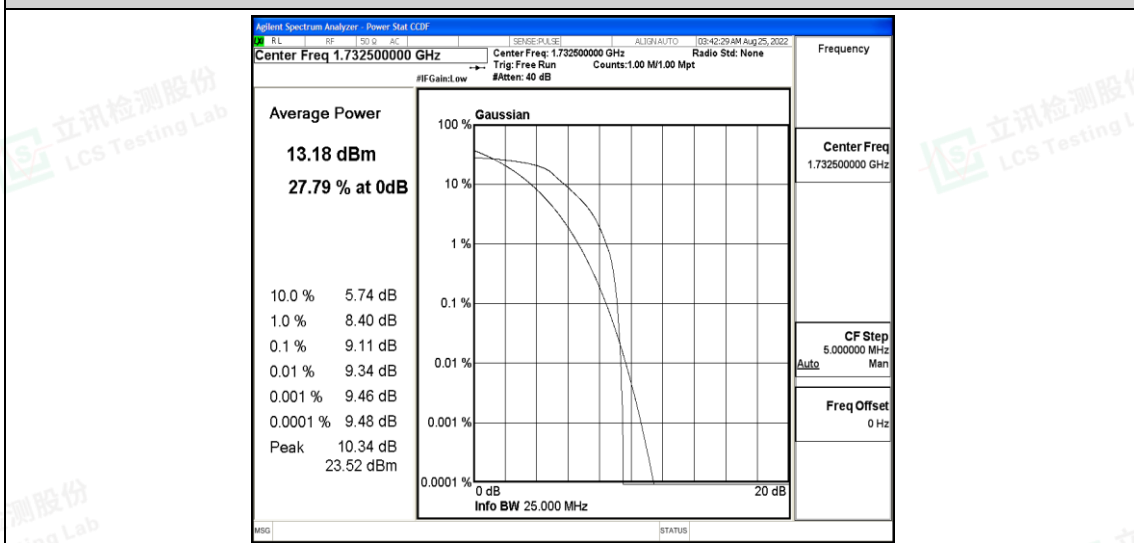




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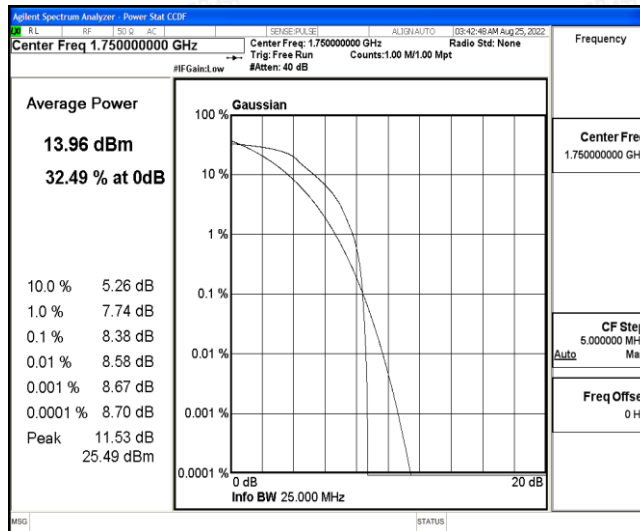


Band4-10MHz-16QAM-20000-6-0-Low-10.08-<=13-PASS

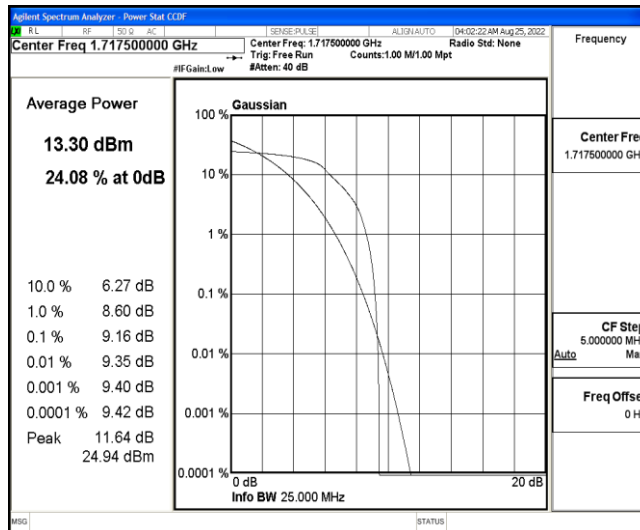


Band4-10MHz-16QAM-20175-6-0-Low-9.11-<=13-PASS

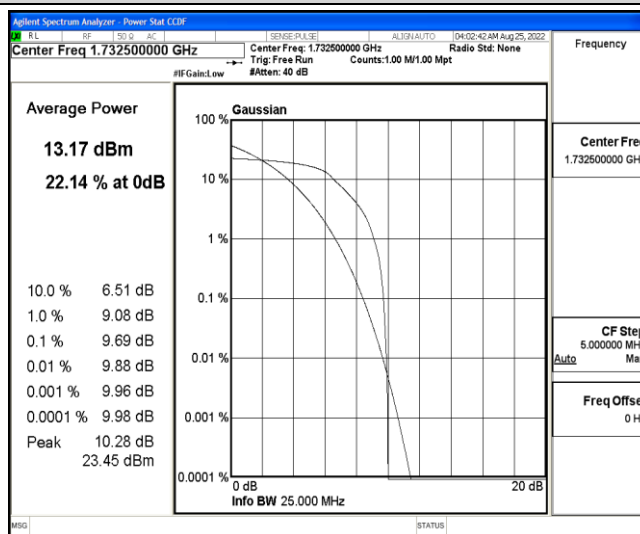




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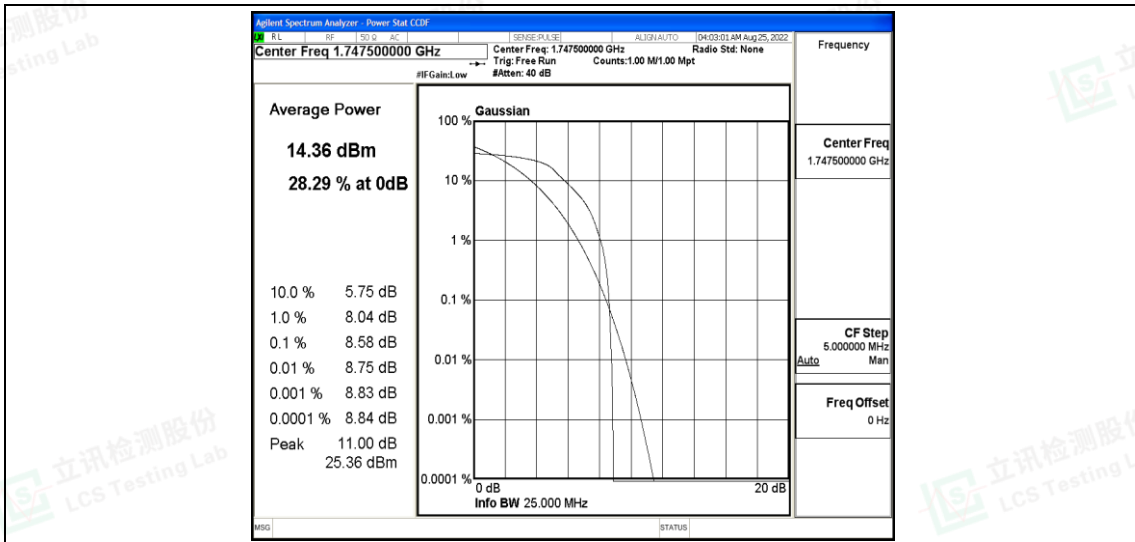


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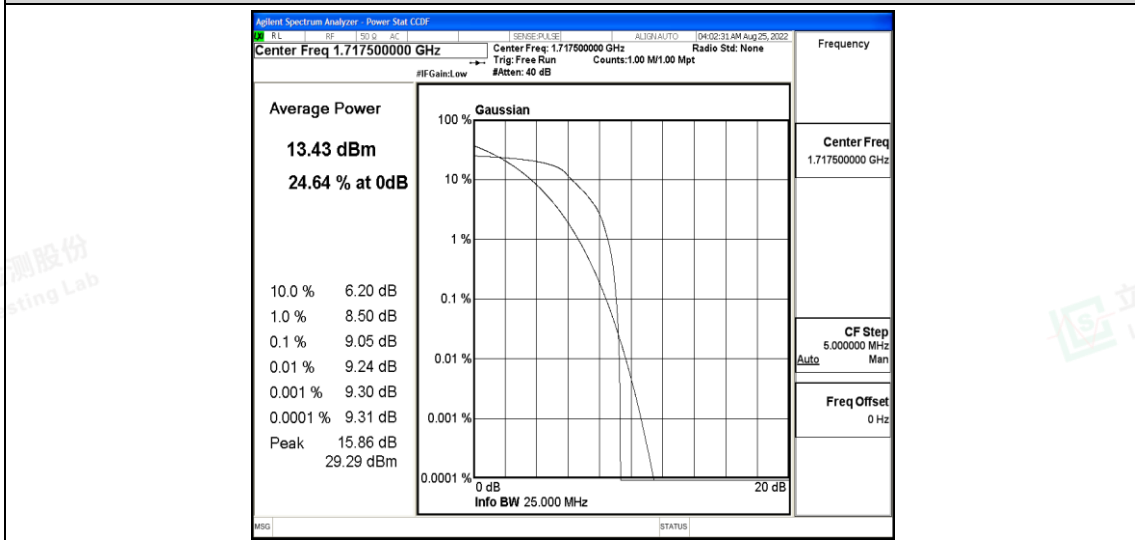


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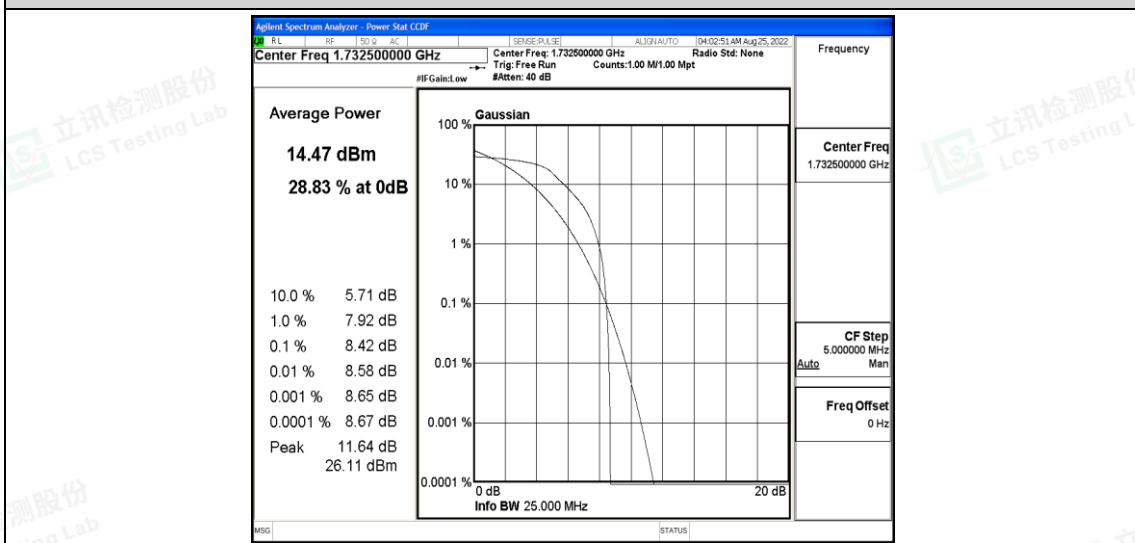




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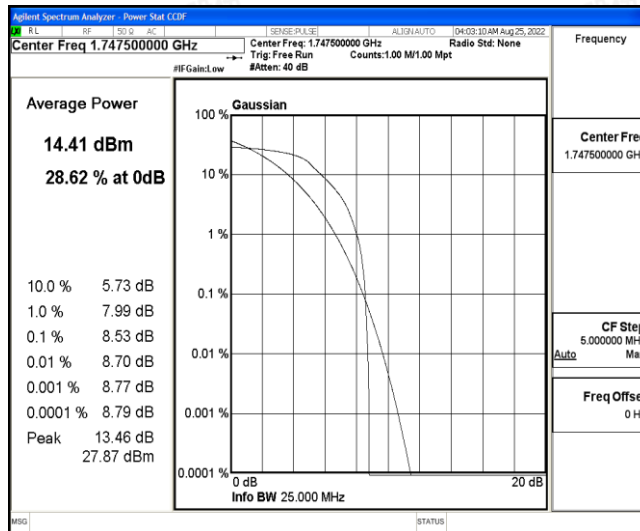


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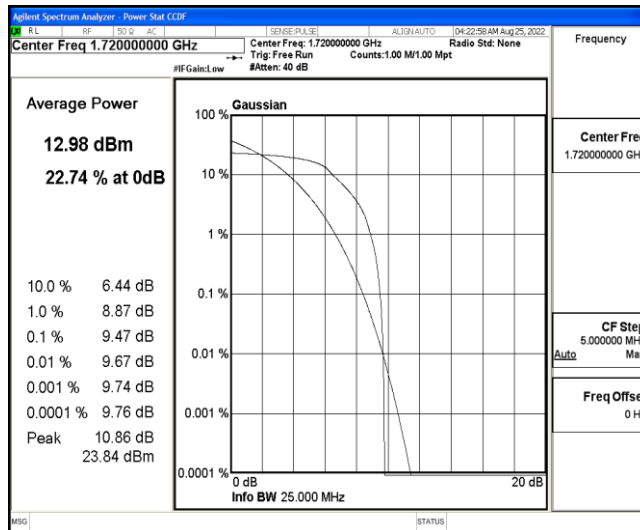


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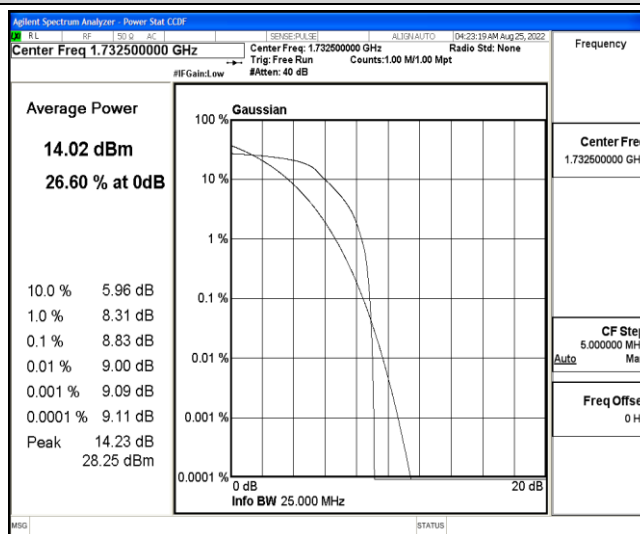




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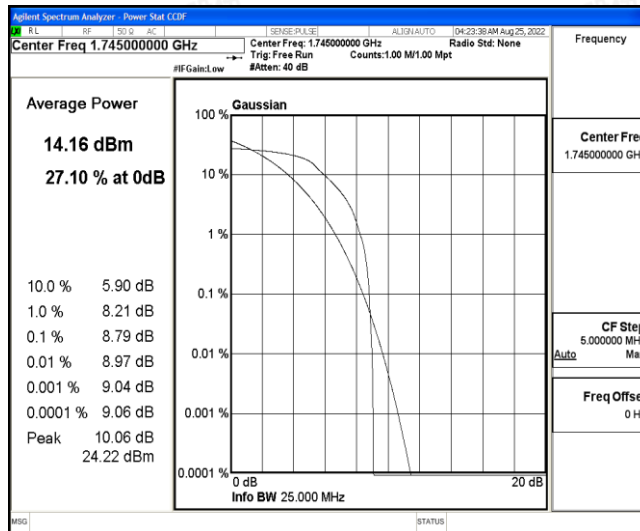


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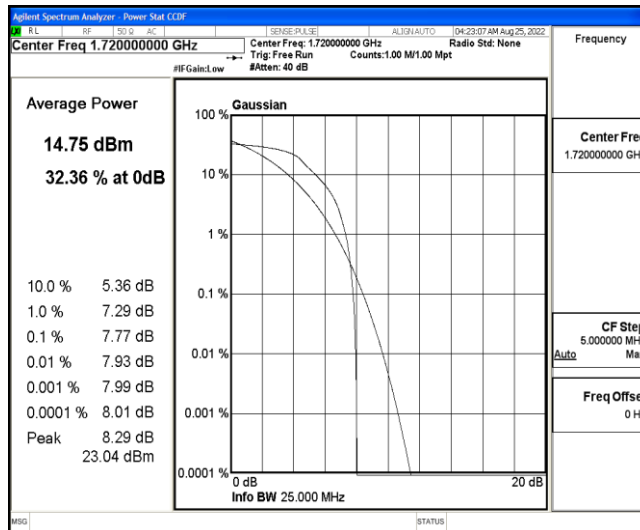


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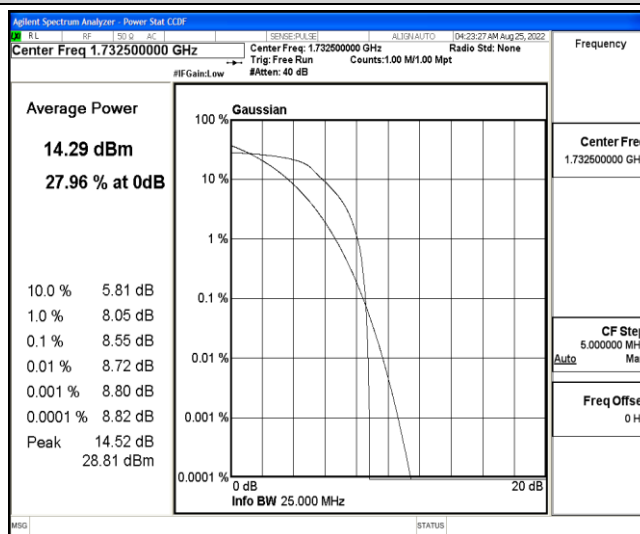




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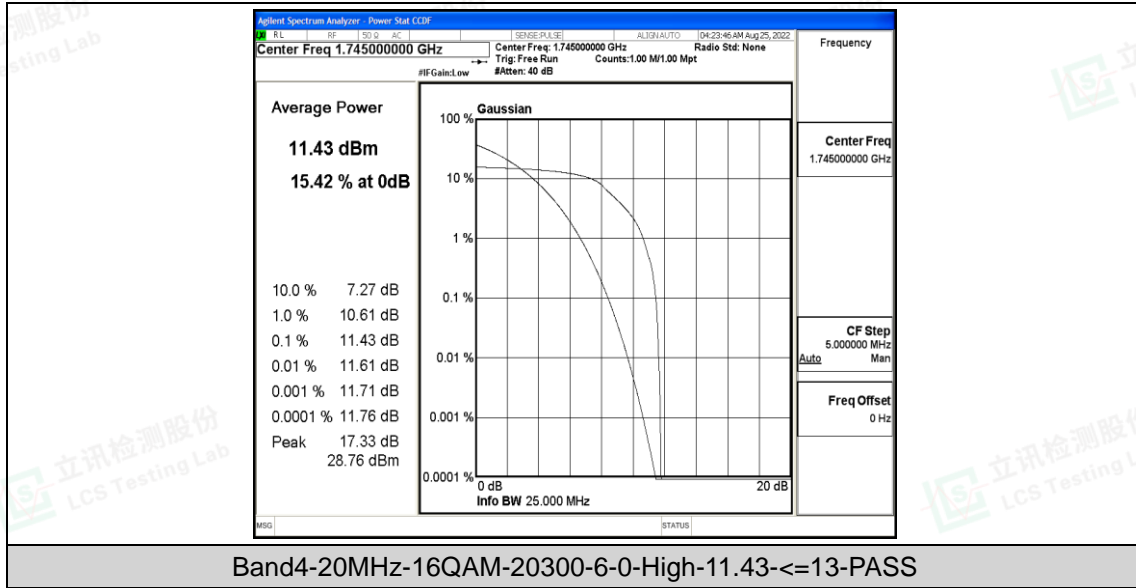


Band4-20MHz-16QAM-20050-6-0-Low-7.77-<=13-PASS



Band4-20MHz-16QAM-20175-6-0-Low-8.55-<=13-PASS







D.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band 4	1.4MHz	19957	QPSK	6	0	Low	1.1036	1.290	PASS
Band 4	1.4MHz	20175	QPSK	6	0	Middle	1.0910	1.303	PASS
Band 4	1.4MHz	20393	QPSK	6	0	High	1.0975	1.286	PASS
Band 4	1.4MHz	19957	16QAM	6	0	Low	1.0947	1.292	PASS
Band 4	1.4MHz	20175	16QAM	6	0	Middle	1.0954	1.283	PASS
Band 4	1.4MHz	20393	16QAM	6	0	High	1.0961	1.283	PASS
Band 4	3MHz	19965	QPSK	6	0	Low	1.1187	1.322	PASS
Band 4	3MHz	20175	QPSK	6	0	Middle	1.1137	1.391	PASS
Band 4	3MHz	20385	QPSK	6	0	High	1.1162	1.330	PASS
Band 4	3MHz	19965	16QAM	6	0	Low	1.1121	1.324	PASS
Band 4	3MHz	20175	16QAM	6	0	Middle	1.1073	1.405	PASS
Band 4	3MHz	20385	16QAM	6	0	High	1.1124	1.332	PASS
Band 4	5MHz	19975	QPSK	6	0	Low	1.1805	1.481	PASS
Band 4	5MHz	20175	QPSK	6	0	Middle	1.1867	1.445	PASS
Band 4	5MHz	20375	QPSK	6	0	High	1.1756	1.521	PASS
Band 4	5MHz	19975	16QAM	6	0	Low	1.1959	1.405	PASS
Band 4	5MHz	20175	16QAM	6	0	Middle	1.1973	1.642	PASS



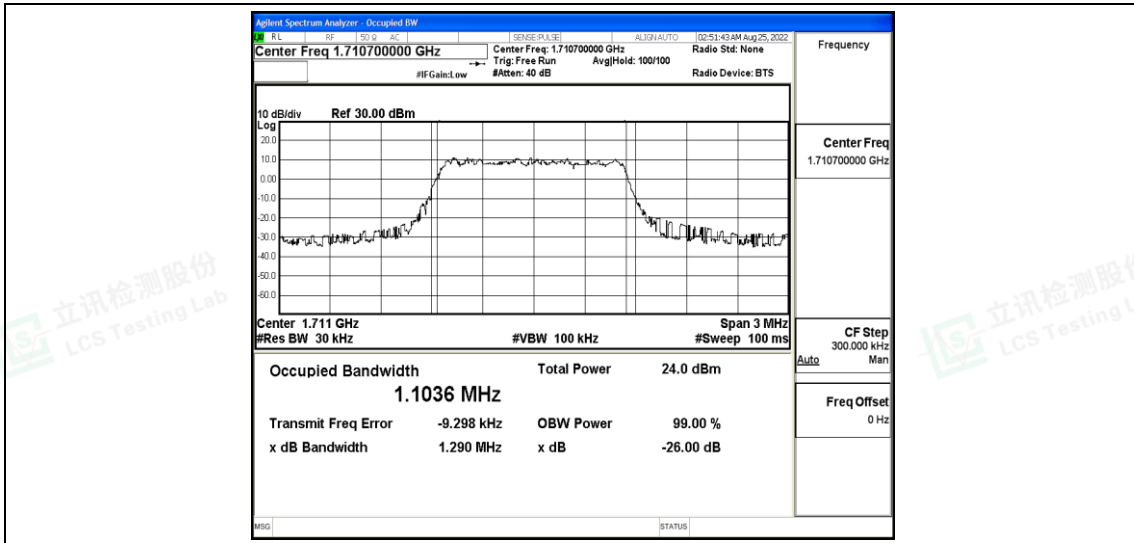


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Band 4	5MHz	20375	16QAM	6	0	High	1.1740	1.457	PASS
Band 4	10MHz	20000	QPSK	6	0	Low	1.3593	2.734	PASS
Band 4	10MHz	20175	QPSK	6	0	Middle	1.3386	2.380	PASS
Band 4	10MHz	20350	QPSK	6	0	High	1.3494	1.920	PASS
Band 4	10MHz	20000	16QAM	6	0	Low	1.3622	2.777	PASS
Band 4	10MHz	20175	16QAM	6	0	Middle	1.3849	2.380	PASS
Band 4	10MHz	20350	16QAM	6	0	High	1.3487	1.885	PASS
Band 4	15MHz	20025	QPSK	6	0	Low	1.6227	3.508	PASS
Band 4	15MHz	20175	QPSK	6	0	Middle	1.6119	3.132	PASS
Band 4	15MHz	20325	QPSK	6	0	High	1.5428	3.178	PASS
Band 4	15MHz	20025	16QAM	6	0	Low	1.6747	3.514	PASS
Band 4	15MHz	20175	16QAM	6	0	Middle	1.5744	3.200	PASS
Band 4	15MHz	20325	16QAM	6	0	High	1.5320	3.213	PASS
Band 4	20MHz	20050	QPSK	6	0	Low	2.4817	5.282	PASS
Band 4	20MHz	20175	QPSK	6	0	Middle	2.2774	4.831	PASS
Band 4	20MHz	20300	QPSK	6	0	High	2.0824	4.990	PASS
Band 4	20MHz	20050	16QAM	6	0	Low	2.1265	4.974	PASS
Band 4	20MHz	20175	16QAM	6	0	Middle	2.1776	4.536	PASS
Band 4	20MHz	20300	16QAM	6	0	High	2.1062	5.003	PASS

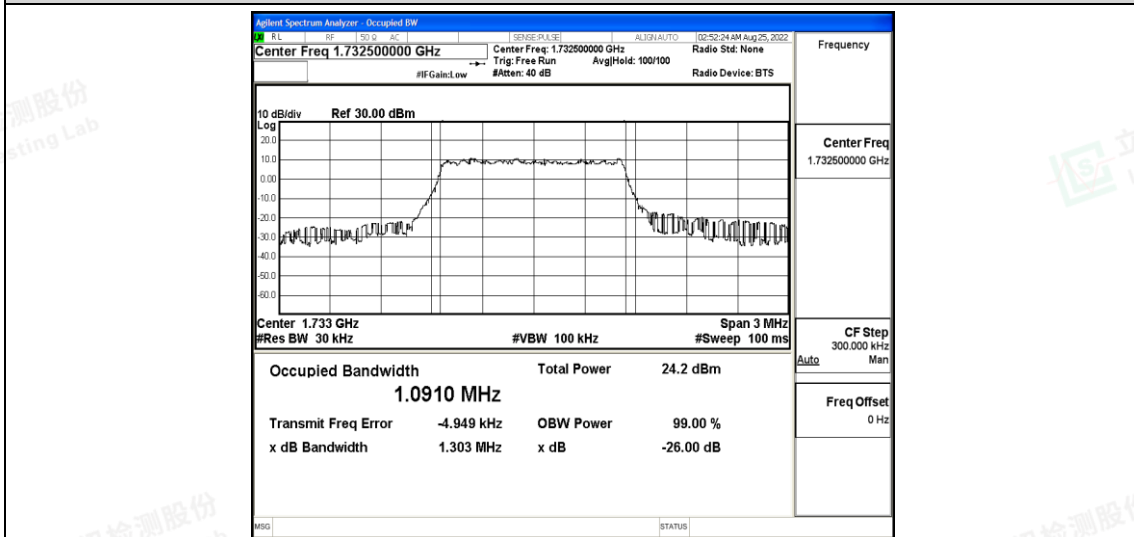




Test Graphs

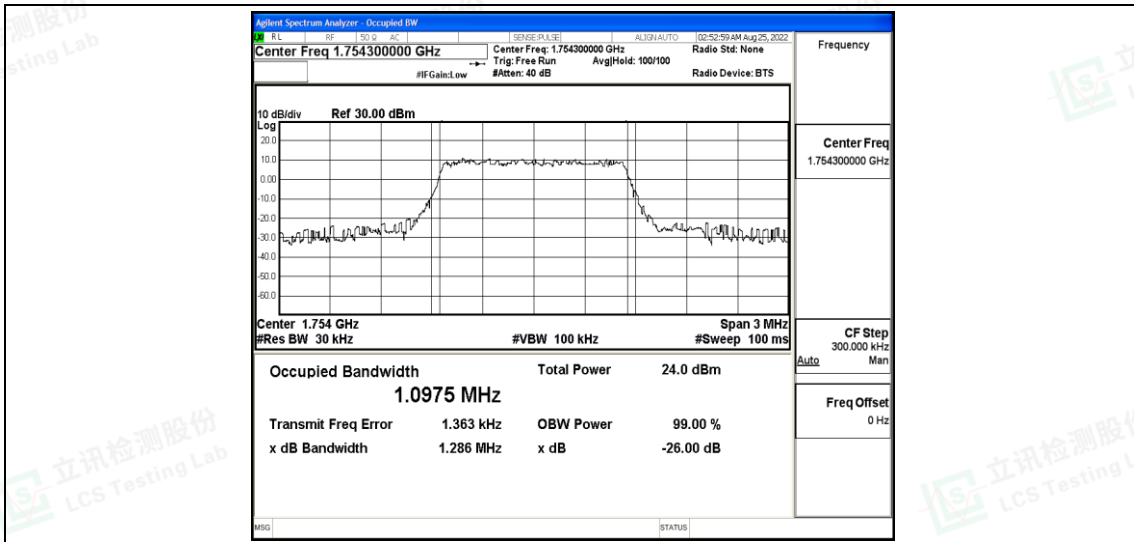


Band4-1.4MHz-QPSK-19957-6-0-Low-1.1036-1.290-PASS

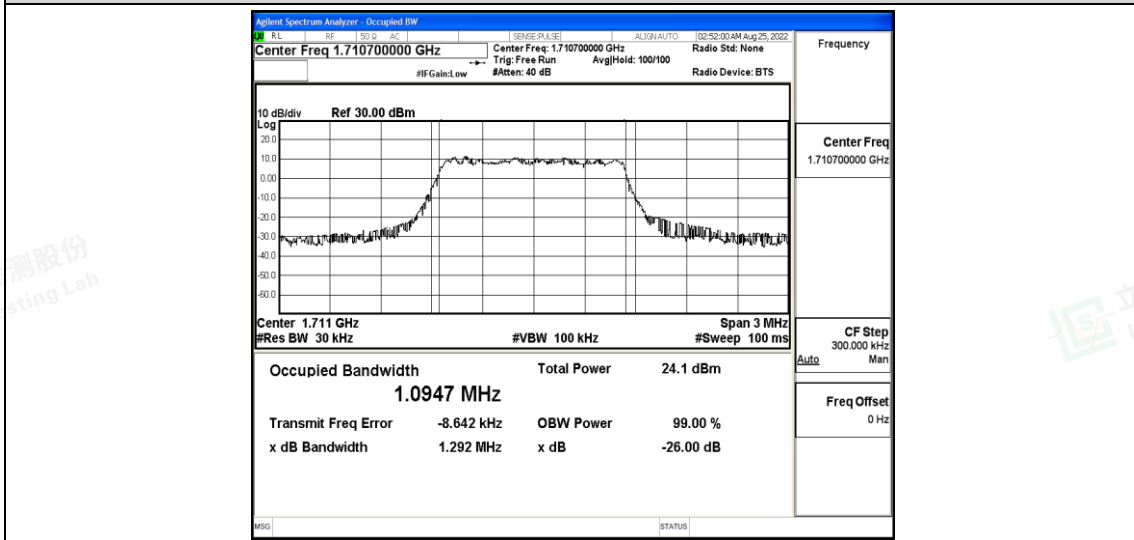


Band4-1.4MHz-QPSK-20175-6-0-Low-1.0910-1.303-PASS

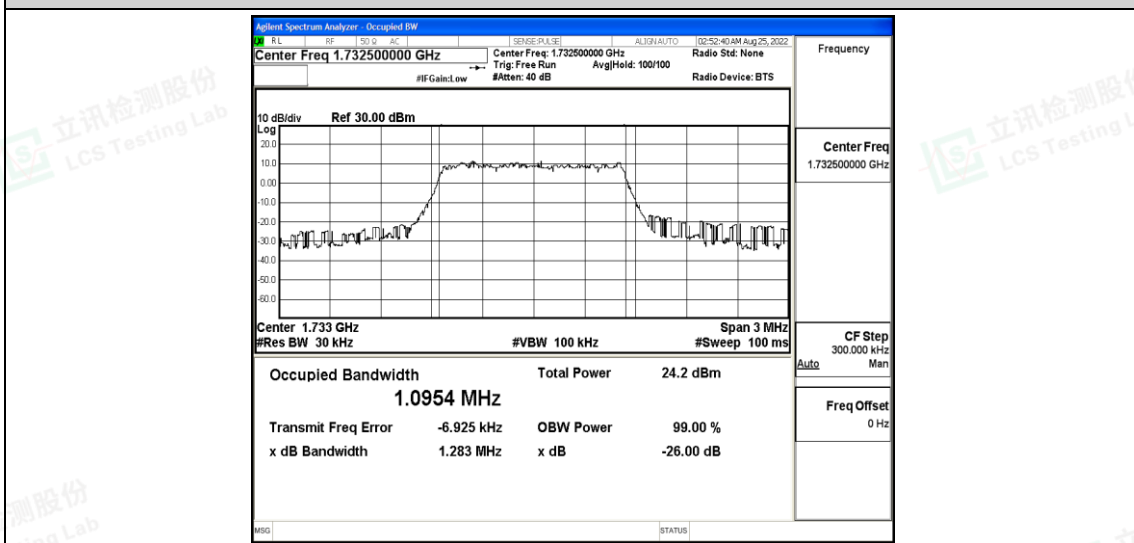




Band4-1.4MHz-QPSK-20393-6-0-High-1.0975-1.286-PASS

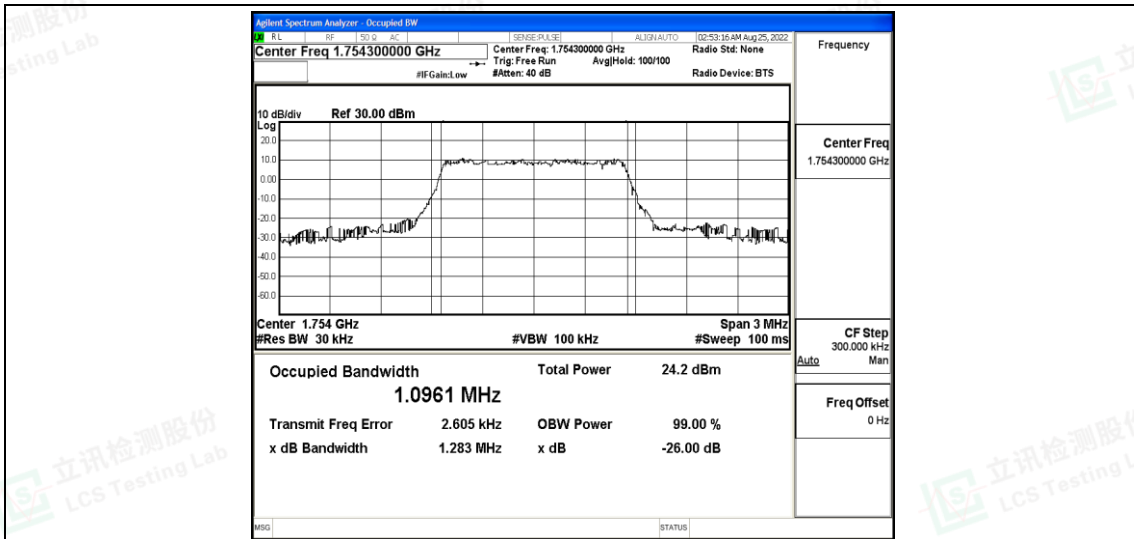


Band4-1.4MHz-16QAM-19957-6-0-Low-1.0947-1.292-PASS

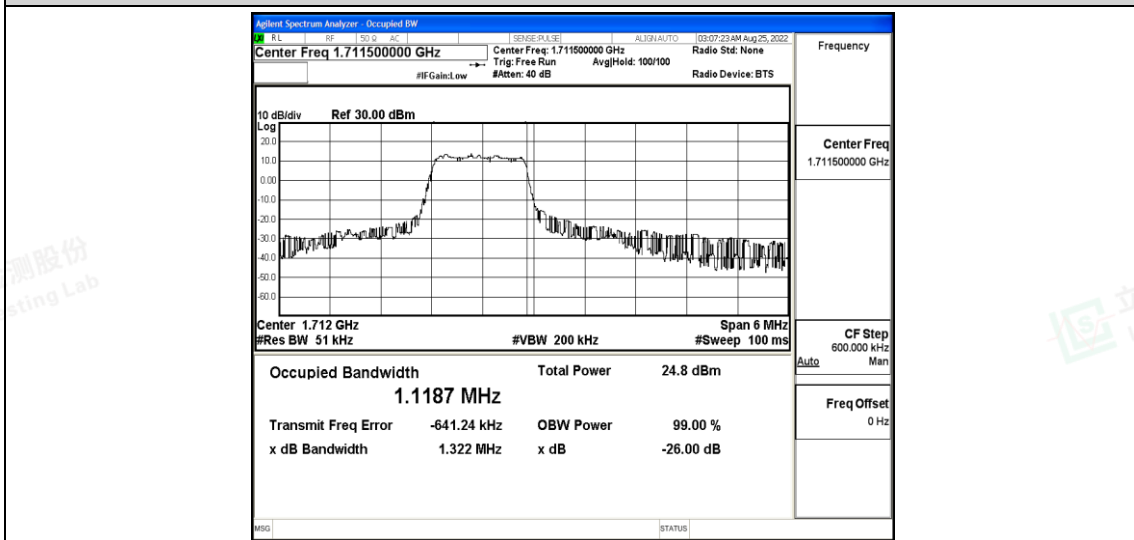


Band4-1.4MHz-16QAM-20175-6-0-Low-1.0954-1.283-PASS

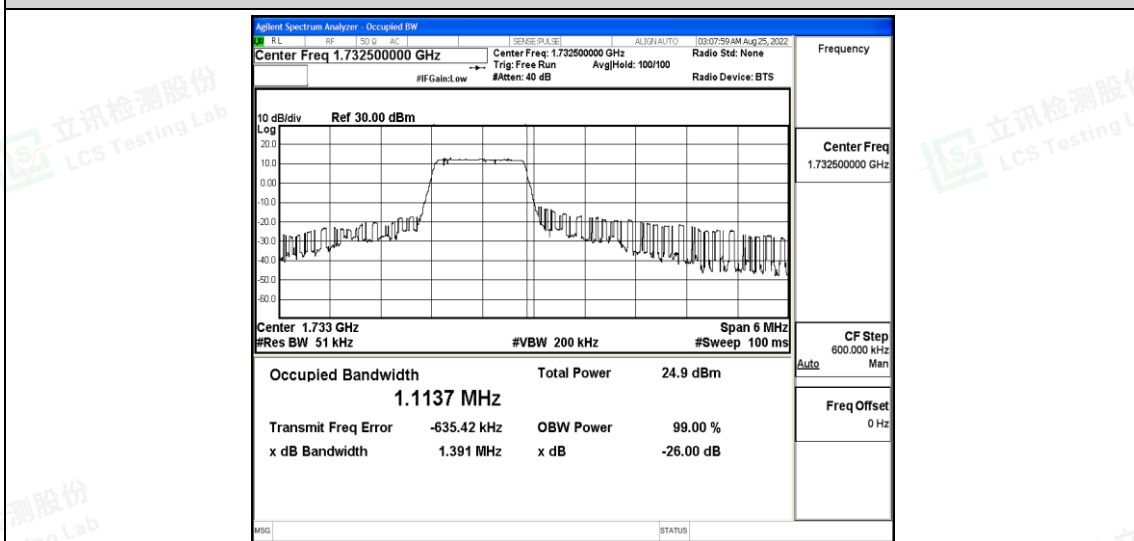




Band4-1.4MHz-16QAM-20393-6-0-High-1.0961-1.283-PASS

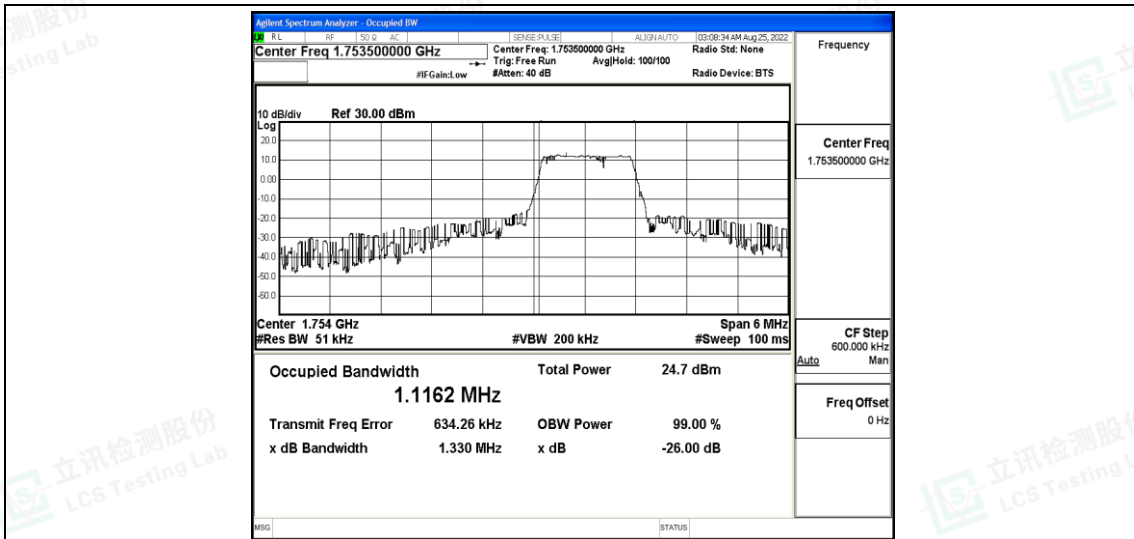


Band4-3MHz-QPSK-19965-6-0-Low-1.1187-1.322-PASS

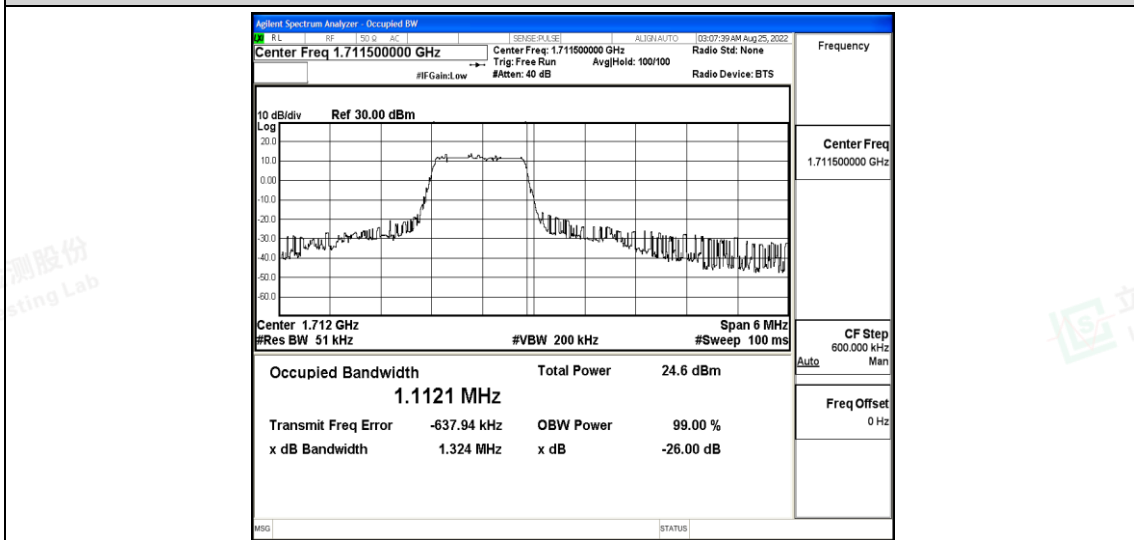


Band4-3MHz-QPSK-20175-6-0-Low-1.1137-1.391-PASS

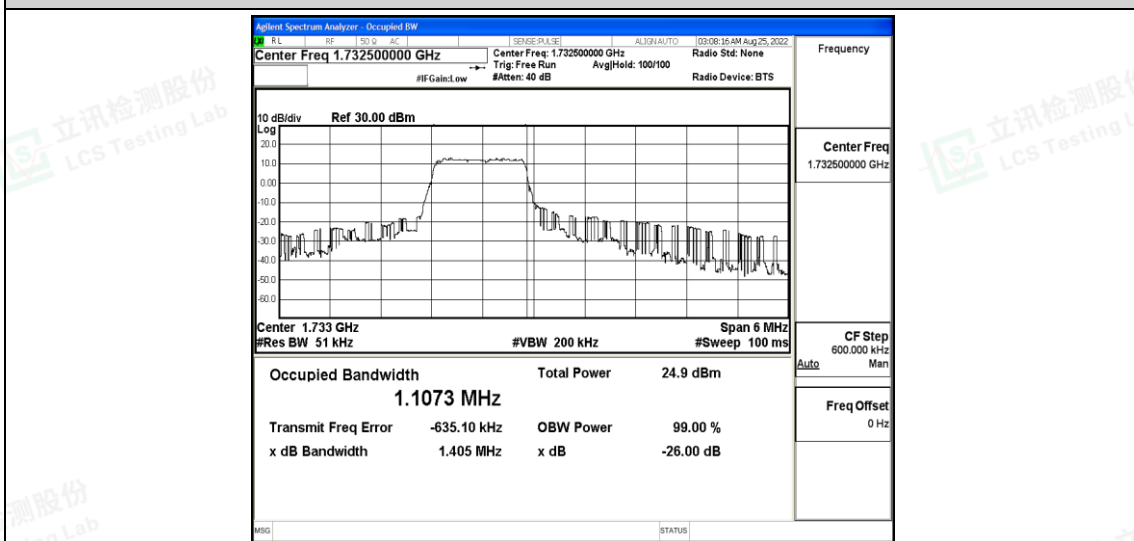




Band4-3MHz-QPSK-20385-6-0-High-1.1162-1.330-PASS

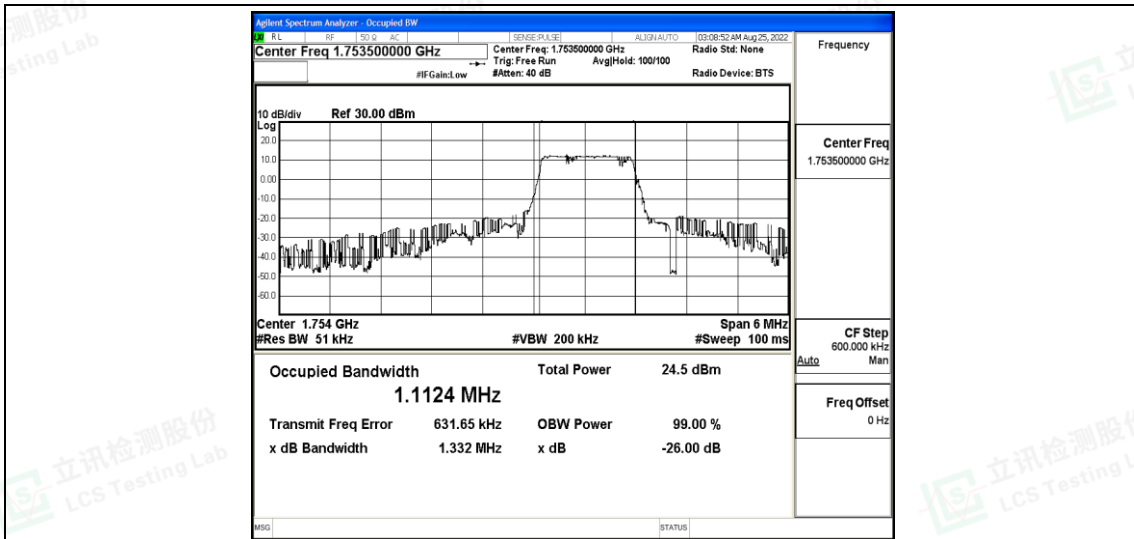


Band4-3MHz-16QAM-19965-6-0-Low-1.1121-1.324-PASS

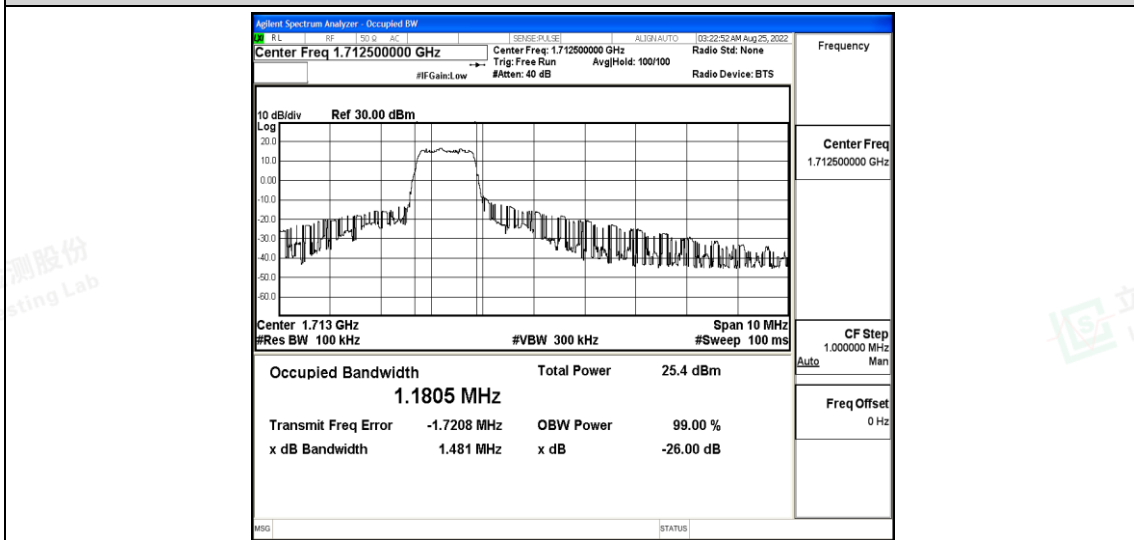


Band4-3MHz-16QAM-20175-6-0-Low-1.1073-1.405-PASS

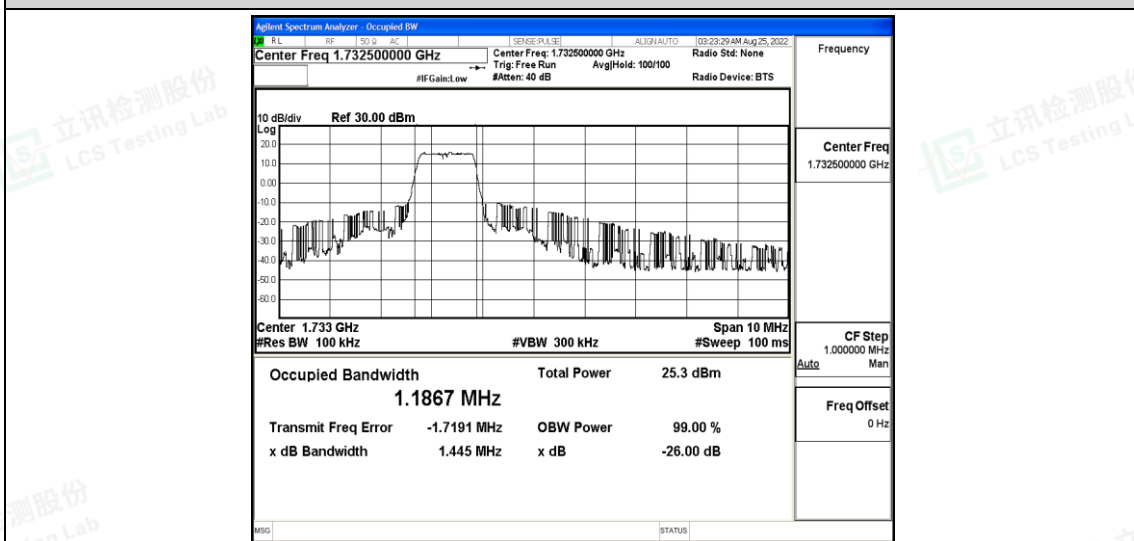




Band4-3MHz-16QAM-20385-6-0-High-1.1124-1.332-PASS

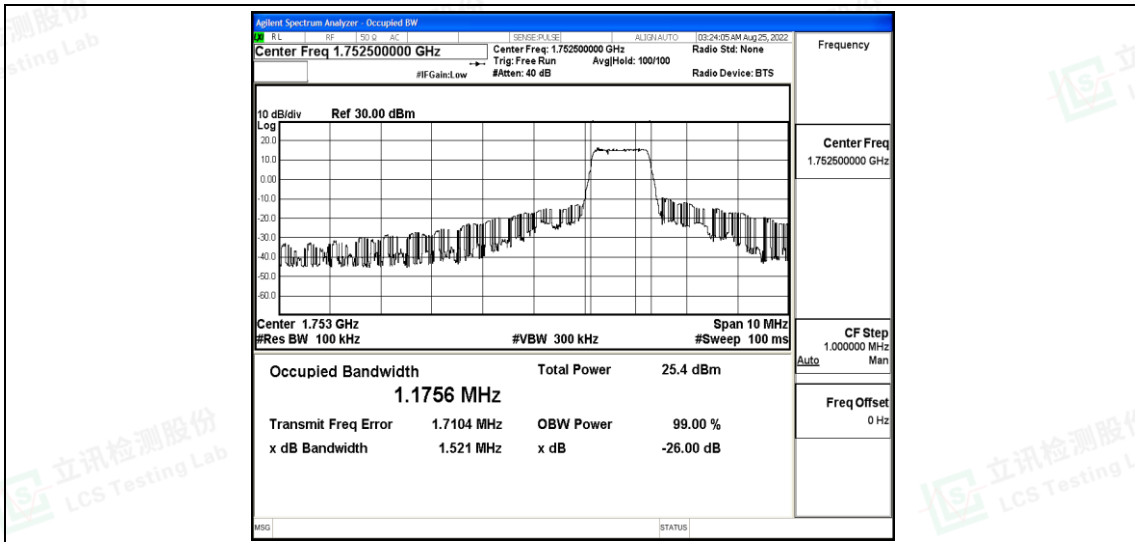


Band4-5MHz-QPSK-19975-6-0-Low-1.1805-1.481-PASS

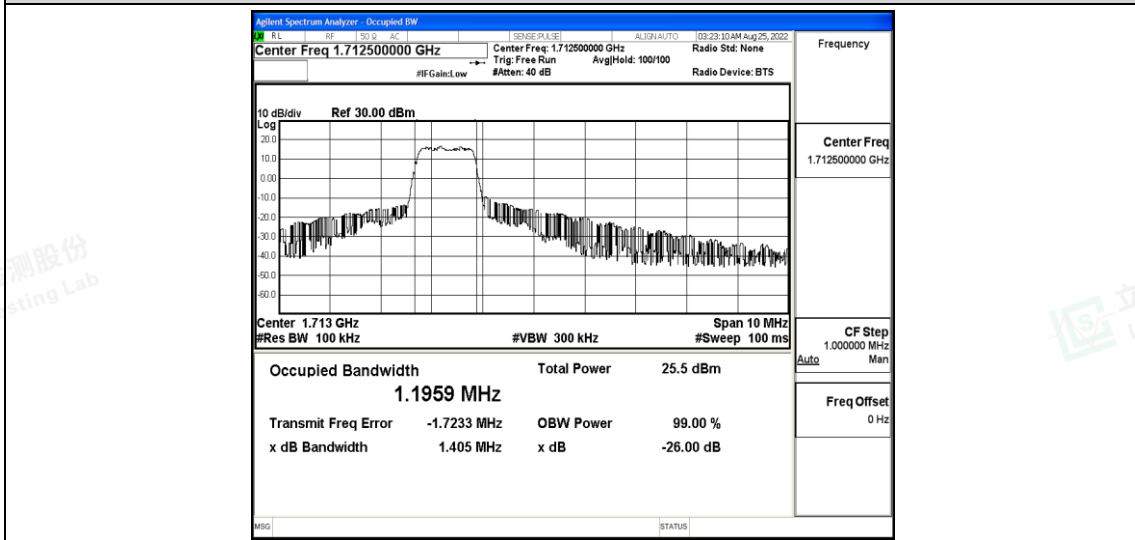


Band4-5MHz-QPSK-20175-6-0-Low-1.1867-1.445-PASS

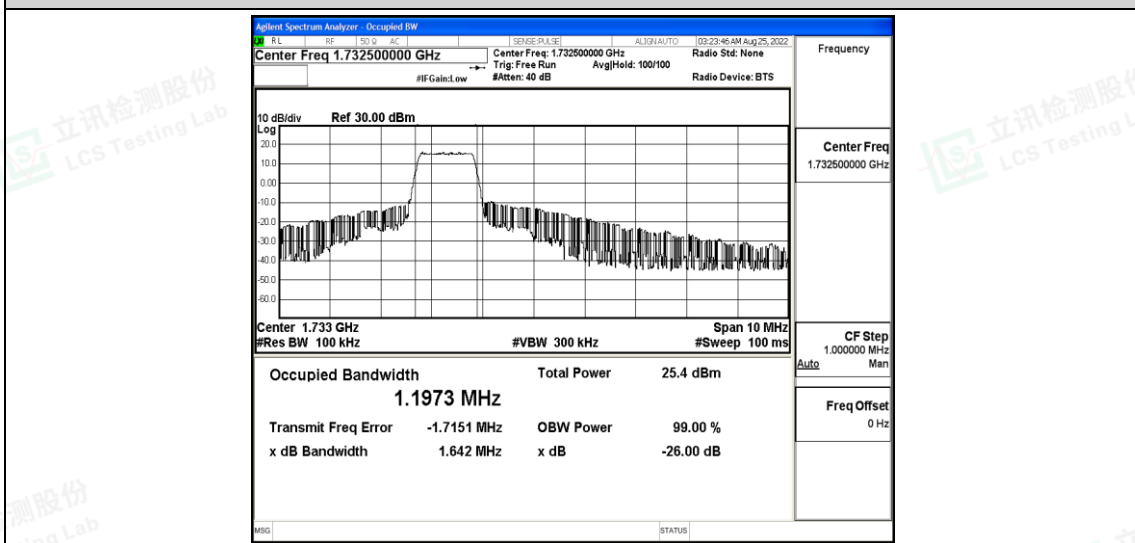




Band4-5MHz-QPSK-20375-6-0-High-1.1756-1.521-PASS

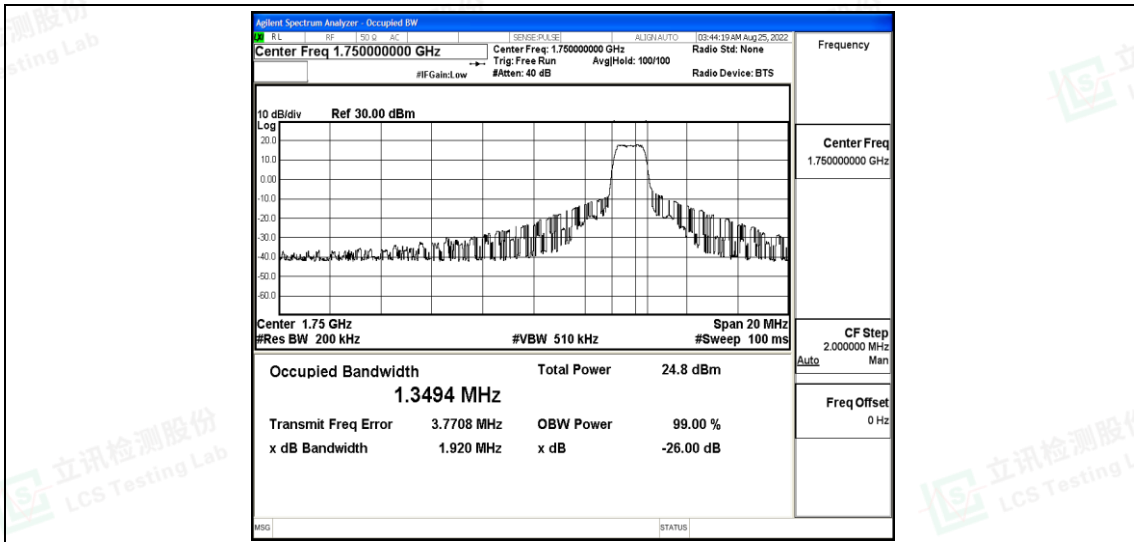


Band4-5MHz-16QAM-19975-6-0-Low-1.1959-1.405-PASS

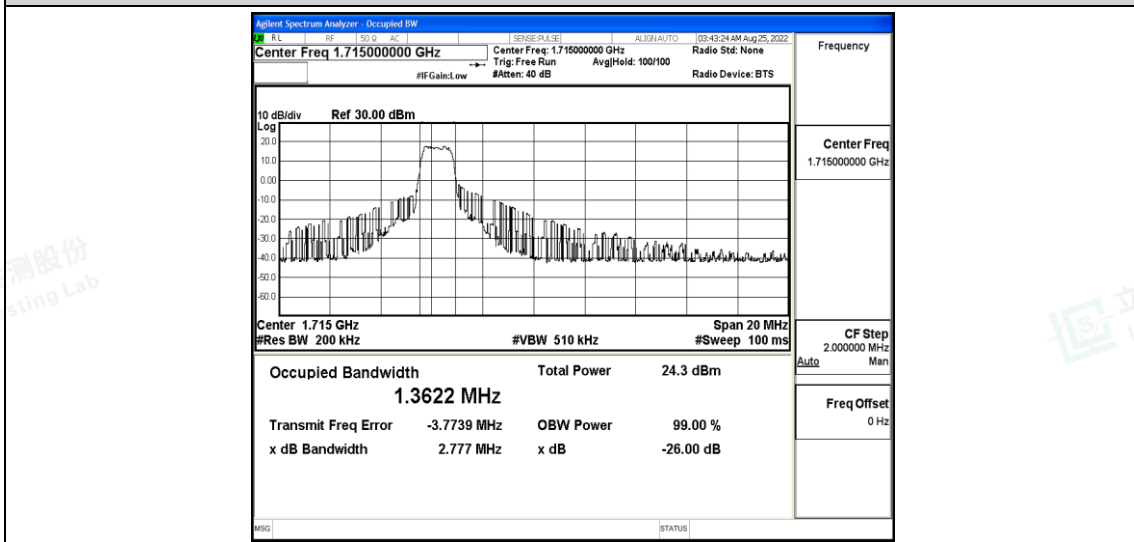


Band4-5MHz-16QAM-20175-6-0-Low-1.1973-1.642-PASS

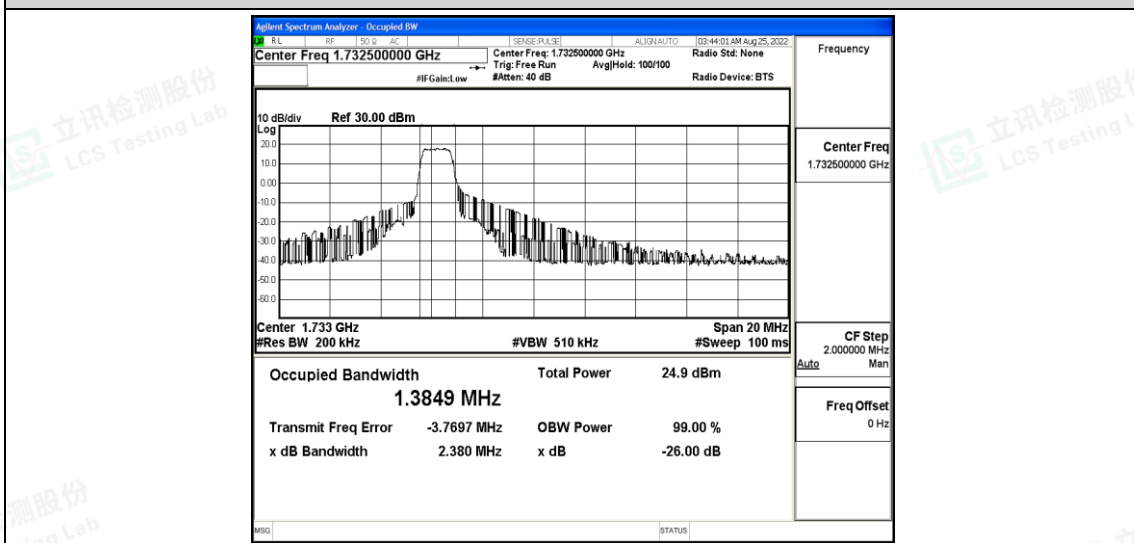




Band4-10MHz-QPSK-20350-6-0-High-1.3494-1.920-PASS

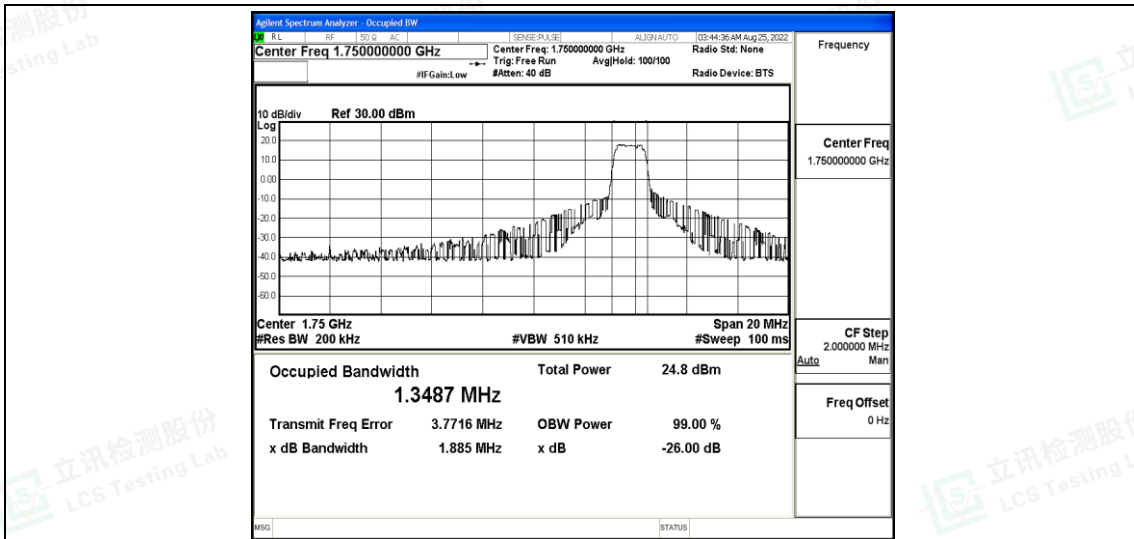


Band4-10MHz-16QAM-20000-6-0-Low-1.3622-2.777-PASS

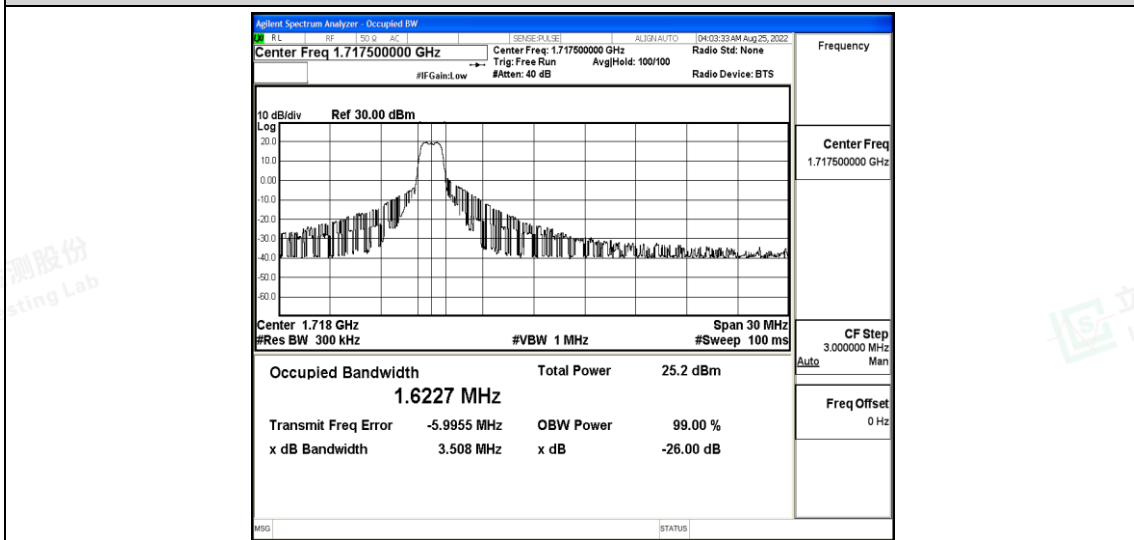


Band4-10MHz-16QAM-20175-6-0-Low-1.3849-2.380-PASS

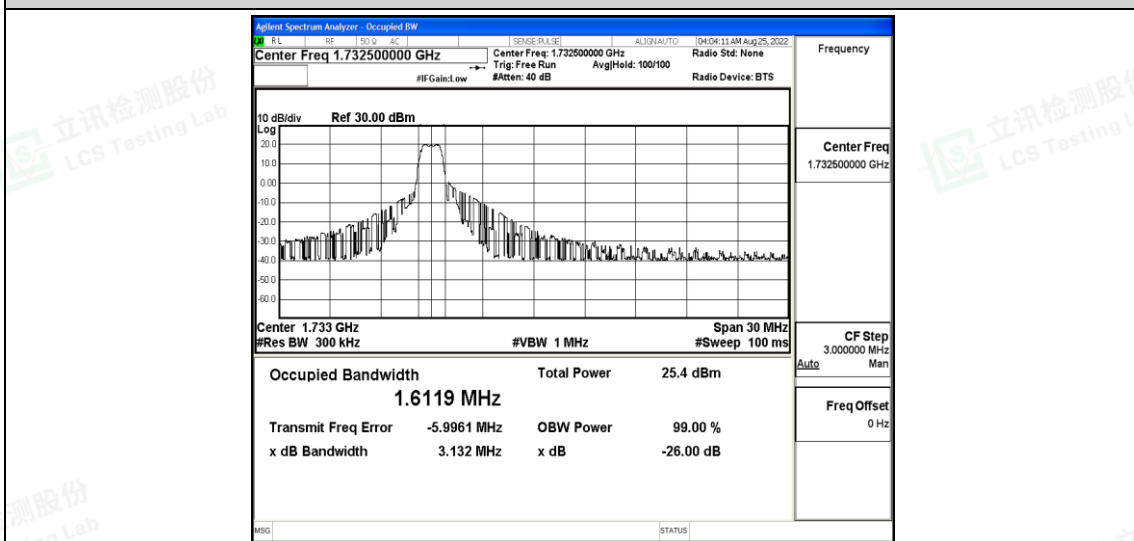




Band4-10MHz-16QAM-20350-6-0-High-1.3487-1.885-PASS



Band4-15MHz-QPSK-20025-6-0-Low-1.6227-3.508-PASS



Band4-15MHz-QPSK-20175-6-0-Low-1.6119-3.132-PASS

