



Appendix D: Test Data for E-UTRA Band 25

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





D.1 Conducted power

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band25	1.4MHz	26047	QPSK	1	0	Low	20.39	PASS
Band25	1.4MHz	26047	QPSK	1	5	Low	20.32	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	18.02	PASS
Band25	1.4MHz	26365	QPSK	1	0	Low	20.30	PASS
Band25	1.4MHz	26365	QPSK	1	5	Low	20.23	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	17.93	PASS
Band25	1.4MHz	26683	QPSK	1	0	High	19.97	PASS
Band25	1.4MHz	26683	QPSK	1	5	High	20.05	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	17.74	PASS
Band25	1.4MHz	26047	16QAM	1	0	Low	19.36	PASS
Band25	1.4MHz	26047	16QAM	1	5	Low	19.17	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	18.02	PASS
Band25	1.4MHz	26365	16QAM	1	0	Low	19.28	PASS
Band25	1.4MHz	26365	16QAM	1	5	Low	19.17	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	18.03	PASS
Band25	1.4MHz	26683	16QAM	1	0	High	18.92	PASS
Band25	1.4MHz	26683	16QAM	1	5	High	18.80	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	17.75	PASS
Band25	3MHz	26055	QPSK	1	0	Low	20.24	PASS
Band25	3MHz	26055	QPSK	1	5	Low	20.20	PASS
Band25	3MHz	26055	QPSK	6	0	Low	17.90	PASS
Band25	3MHz	26365	QPSK	1	0	Low	20.09	PASS
Band25	3MHz	26365	QPSK	1	5	Low	20.13	PASS
Band25	3MHz	26365	QPSK	6	0	Low	17.88	PASS
Band25	3MHz	26675	QPSK	1	0	High	19.87	PASS
Band25	3MHz	26675	QPSK	1	5	High	19.87	PASS
Band25	3MHz	26675	QPSK	6	0	High	17.67	PASS
Band25	3MHz	26055	16QAM	1	0	Low	19.26	PASS
Band25	3MHz	26055	16QAM	1	5	Low	19.07	PASS
Band25	3MHz	26055	16QAM	6	0	Low	18.00	PASS
Band25	3MHz	26365	16QAM	1	0	Low	19.12	PASS
Band25	3MHz	26365	16QAM	1	5	Low	18.93	PASS
Band25	3MHz	26365	16QAM	6	0	Low	18.00	PASS
Band25	3MHz	26675	16QAM	1	0	High	19.03	PASS
Band25	3MHz	26675	16QAM	1	5	High	18.96	PASS



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Band25	3MHz	26675	16QAM	6	0	High	17.69	PASS
Band25	5MHz	26065	QPSK	1	0	Low	20.20	PASS
Band25	5MHz	26065	QPSK	1	5	Low	20.12	PASS
Band25	5MHz	26065	QPSK	6	0	Low	18.93	PASS
Band25	5MHz	26365	QPSK	1	0	Low	19.98	PASS
Band25	5MHz	26365	QPSK	1	5	Low	20.12	PASS
Band25	5MHz	26365	QPSK	6	0	Low	18.88	PASS
Band25	5MHz	26665	QPSK	1	0	High	19.93	PASS
Band25	5MHz	26665	QPSK	1	5	High	19.91	PASS
Band25	5MHz	26665	QPSK	6	0	High	18.68	PASS
Band25	5MHz	26065	16QAM	1	0	Low	20.58	PASS
Band25	5MHz	26065	16QAM	1	5	Low	20.43	PASS
Band25	5MHz	26065	16QAM	6	0	Low	18.91	PASS
Band25	5MHz	26365	16QAM	1	0	Low	20.46	PASS
Band25	5MHz	26365	16QAM	1	5	Low	20.36	PASS
Band25	5MHz	26365	16QAM	6	0	Low	18.89	PASS
Band25	5MHz	26665	16QAM	1	0	High	20.21	PASS
Band25	5MHz	26665	16QAM	1	5	High	20.10	PASS
Band25	5MHz	26665	16QAM	6	0	High	18.68	PASS
Band25	10MHz	26090	QPSK	1	0	Low	20.56	PASS
Band25	10MHz	26090	QPSK	1	5	Low	20.39	PASS
Band25	10MHz	26090	QPSK	6	0	Low	18.99	PASS
Band25	10MHz	26365	QPSK	1	0	Low	20.08	PASS
Band25	10MHz	26365	QPSK	1	5	Low	19.97	PASS
Band25	10MHz	26365	QPSK	6	0	Low	18.86	PASS
Band25	10MHz	26640	QPSK	1	0	High	19.92	PASS
Band25	10MHz	26640	QPSK	1	5	High	20.01	PASS
Band25	10MHz	26640	QPSK	6	0	High	18.61	PASS
Band25	10MHz	26090	16QAM	1	0	Low	20.59	PASS
Band25	10MHz	26090	16QAM	1	5	Low	20.57	PASS
Band25	10MHz	26090	16QAM	6	0	Low	19.00	PASS
Band25	10MHz	26365	16QAM	1	0	Low	20.49	PASS
Band25	10MHz	26365	16QAM	1	5	Low	20.41	PASS
Band25	10MHz	26365	16QAM	6	0	Low	18.86	PASS
Band25	10MHz	26640	16QAM	1	0	High	20.17	PASS
Band25	10MHz	26640	16QAM	1	5	High	20.07	PASS
Band25	10MHz	26640	16QAM	6	0	High	18.62	PASS
Band25	15MHz	26115	QPSK	1	0	Low	20.37	PASS
Band25	15MHz	26115	QPSK	1	5	Low	20.34	PASS
Band25	15MHz	26115	QPSK	6	0	Low	20.05	PASS
Band25	15MHz	26365	QPSK	1	0	Low	20.07	PASS



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Band25	15MHz	26365	QPSK	1	5	Low	20.30	PASS
Band25	15MHz	26365	QPSK	6	0	Low	19.89	PASS
Band25	15MHz	26615	QPSK	1	0	High	19.93	PASS
Band25	15MHz	26615	QPSK	1	5	High	19.93	PASS
Band25	15MHz	26615	QPSK	6	0	High	19.84	PASS
Band25	15MHz	26115	16QAM	1	0	Low	20.69	PASS
Band25	15MHz	26115	16QAM	1	5	Low	20.56	PASS
Band25	15MHz	26115	16QAM	6	0	Low	20.26	PASS
Band25	15MHz	26365	16QAM	1	0	Low	20.70	PASS
Band25	15MHz	26365	16QAM	1	5	Low	20.42	PASS
Band25	15MHz	26365	16QAM	6	0	Low	20.00	PASS
Band25	15MHz	26615	16QAM	1	0	High	20.32	PASS
Band25	15MHz	26615	16QAM	1	5	High	20.09	PASS
Band25	15MHz	26615	16QAM	6	0	High	19.83	PASS
Band25	20MHz	26140	QPSK	1	0	Low	20.38	PASS
Band25	20MHz	26140	QPSK	1	5	Low	20.35	PASS
Band25	20MHz	26140	QPSK	6	0	Low	20.11	PASS
Band25	20MHz	26365	QPSK	1	0	Low	20.23	PASS
Band25	20MHz	26365	QPSK	1	5	Low	20.27	PASS
Band25	20MHz	26365	QPSK	6	0	Low	20.07	PASS
Band25	20MHz	26590	QPSK	1	0	High	19.99	PASS
Band25	20MHz	26590	QPSK	1	5	High	19.89	PASS
Band25	20MHz	26590	QPSK	6	0	High	19.75	PASS
Band25	20MHz	26140	16QAM	1	0	Low	20.68	PASS
Band25	20MHz	26140	16QAM	1	5	Low	20.55	PASS
Band25	20MHz	26140	16QAM	6	0	Low	20.10	PASS
Band25	20MHz	26365	16QAM	1	0	Low	20.54	PASS
Band25	20MHz	26365	16QAM	1	5	Low	20.32	PASS
Band25	20MHz	26365	16QAM	6	0	Low	20.07	PASS
Band25	20MHz	26590	16QAM	1	0	High	20.34	PASS
Band25	20MHz	26590	16QAM	1	5	High	20.34	PASS
Band25	20MHz	26590	16QAM	6	0	High	19.83	PASS





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

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band25	1.4MHz	26047	QPSK	6	0	Low	9.76	<=13	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	11.51	<=13	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	9.31	<=13	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	11.71	<=13	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	9.47	<=13	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	10.22	<=13	PASS
Band25	3MHz	26055	QPSK	6	0	Low	9.95	<=13	PASS
Band25	3MHz	26365	QPSK	6	0	Low	9.05	<=13	PASS
Band25	3MHz	26675	QPSK	6	0	High	9.92	<=13	PASS
Band25	3MHz	26055	16QAM	6	0	Low	8.61	<=13	PASS
Band25	3MHz	26365	16QAM	6	0	Low	10.94	<=13	PASS
Band25	3MHz	26675	16QAM	6	0	High	10.16	<=13	PASS
Band25	5MHz	26065	QPSK	6	0	Low	8.98	<=13	PASS
Band25	5MHz	26365	QPSK	6	0	Low	8.13	<=13	PASS
Band25	5MHz	26665	QPSK	6	0	High	9.34	<=13	PASS
Band25	5MHz	26065	16QAM	6	0	Low	9.60	<=13	PASS
Band25	5MHz	26365	16QAM	6	0	Low	10.30	<=13	PASS
Band25	5MHz	26665	16QAM	6	0	High	9.51	<=13	PASS
Band25	10MHz	26090	QPSK	6	0	Low	9.45	<=13	PASS
Band25	10MHz	26365	QPSK	6	0	Low	8.03	<=13	PASS
Band25	10MHz	26640	QPSK	6	0	High	8.90	<=13	PASS
Band25	10MHz	26090	16QAM	6	0	Low	10.69	<=13	PASS
Band25	10MHz	26365	16QAM	6	0	Low	8.19	<=13	PASS
Band25	10MHz	26640	16QAM	6	0	High	10.39	<=13	PASS
Band25	15MHz	26115	QPSK	6	0	Low	9.47	<=13	PASS
Band25	15MHz	26365	QPSK	6	0	Low	8.10	<=13	PASS
Band25	15MHz	26615	QPSK	6	0	High	7.87	<=13	PASS
Band25	15MHz	26115	16QAM	6	0	Low	10.02	<=13	PASS
Band25	15MHz	26365	16QAM	6	0	Low	9.78	<=13	PASS
Band25	15MHz	26615	16QAM	6	0	High	8.62	<=13	PASS
Band25	20MHz	26140	QPSK	6	0	Low	8.85	<=13	PASS
Band25	20MHz	26365	QPSK	6	0	Low	9.42	<=13	PASS
Band25	20MHz	26590	QPSK	6	0	High	8.99	<=13	PASS
Band25	20MHz	26140	16QAM	6	0	Low	8.80	<=13	PASS
Band25	20MHz	26365	16QAM	6	0	Low	12.24	<=13	PASS



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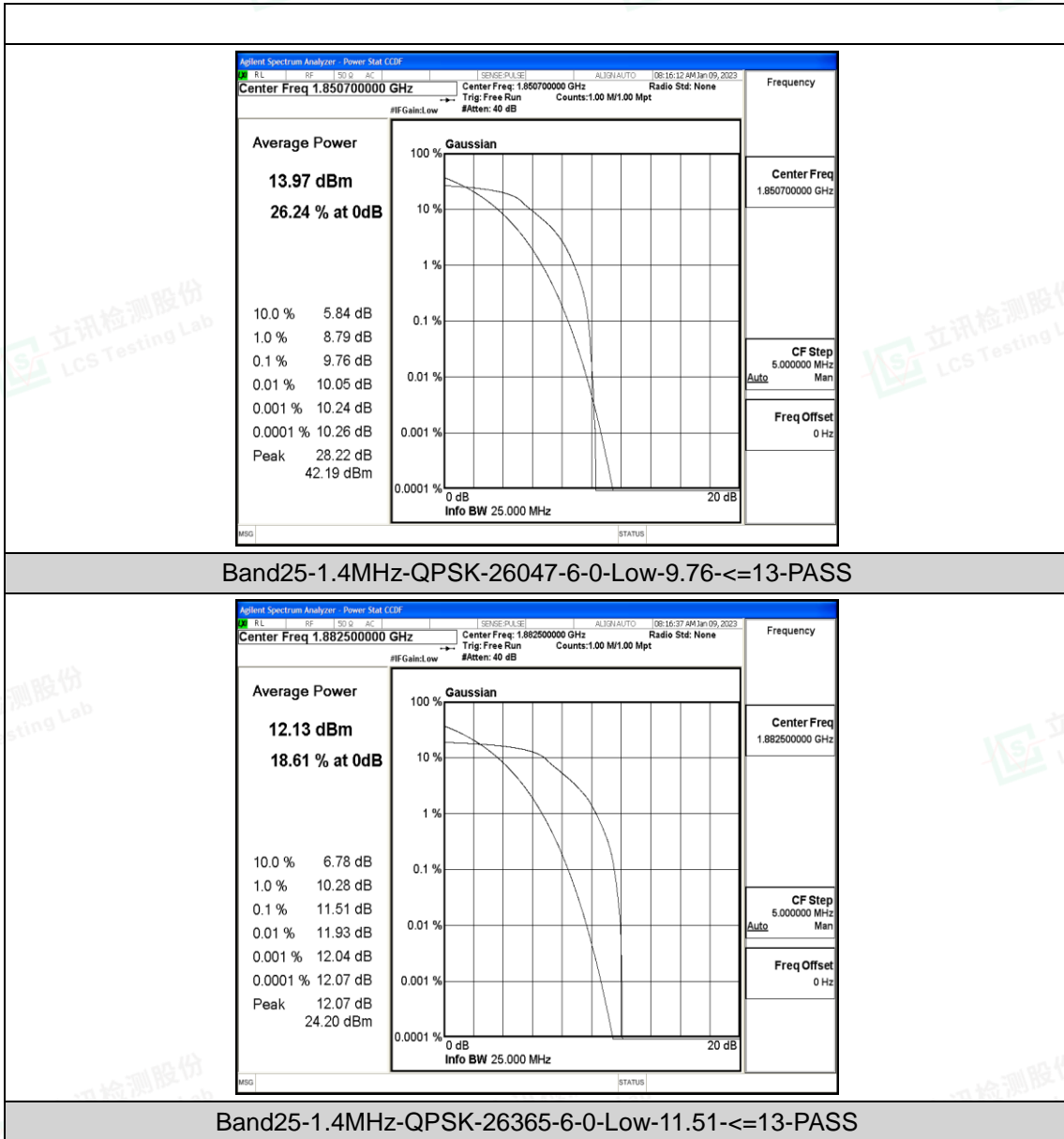
Band25	20MHz	26590	16QAM	6	0	High	9.51	<=13	PASS
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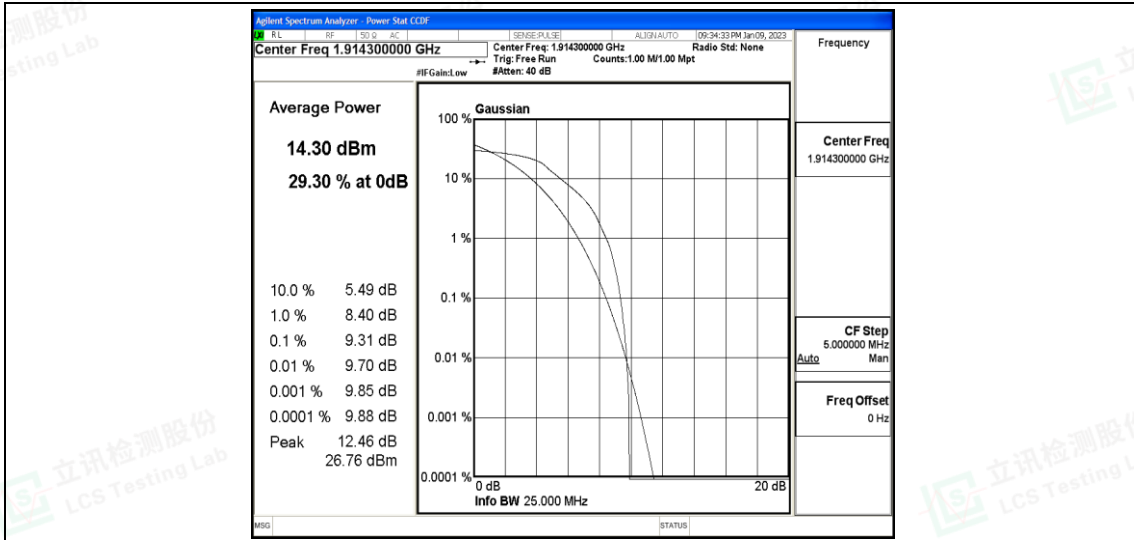


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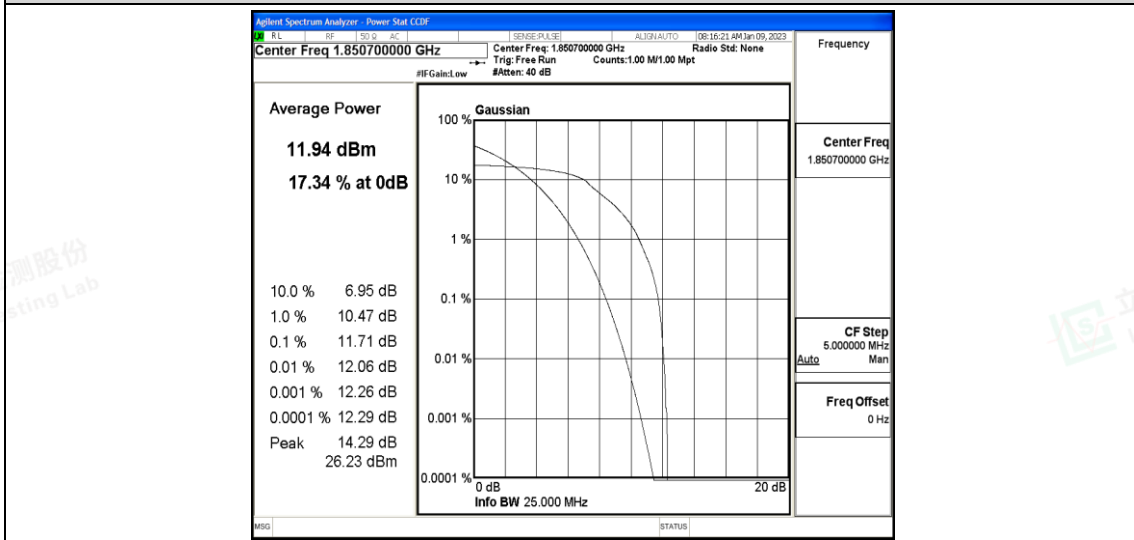


Test Graphs

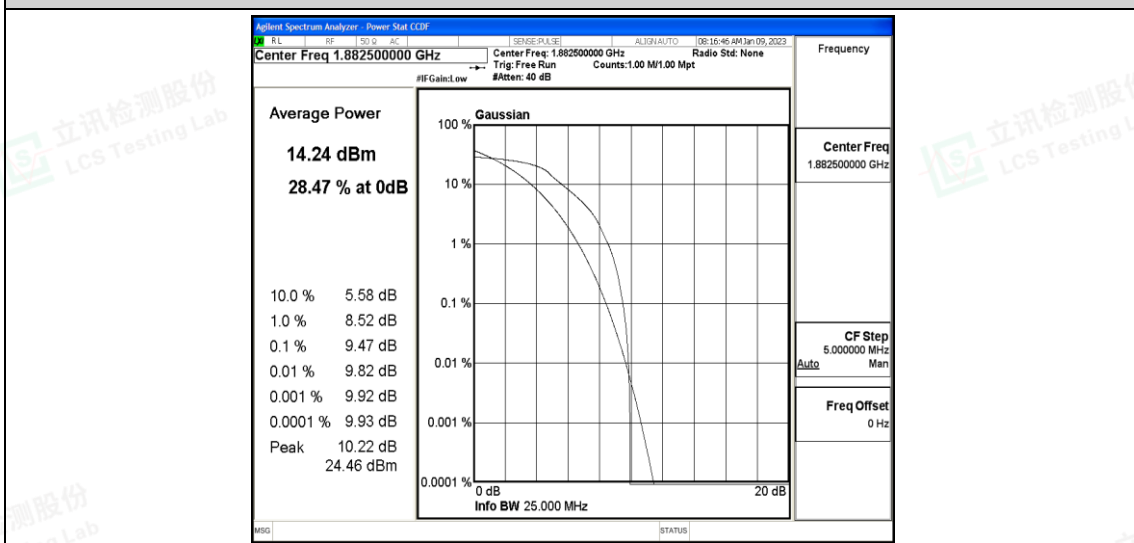




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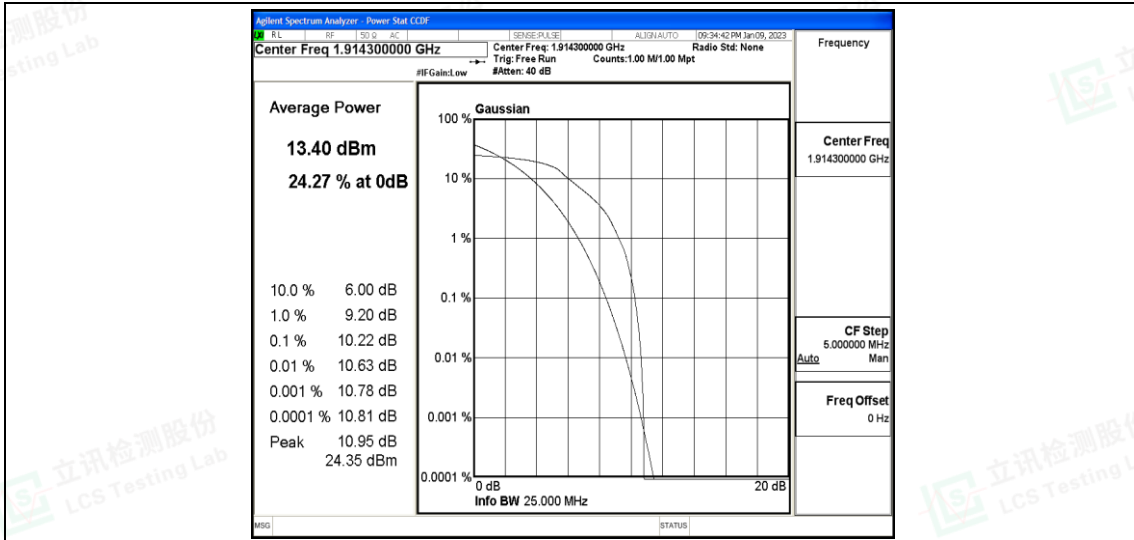


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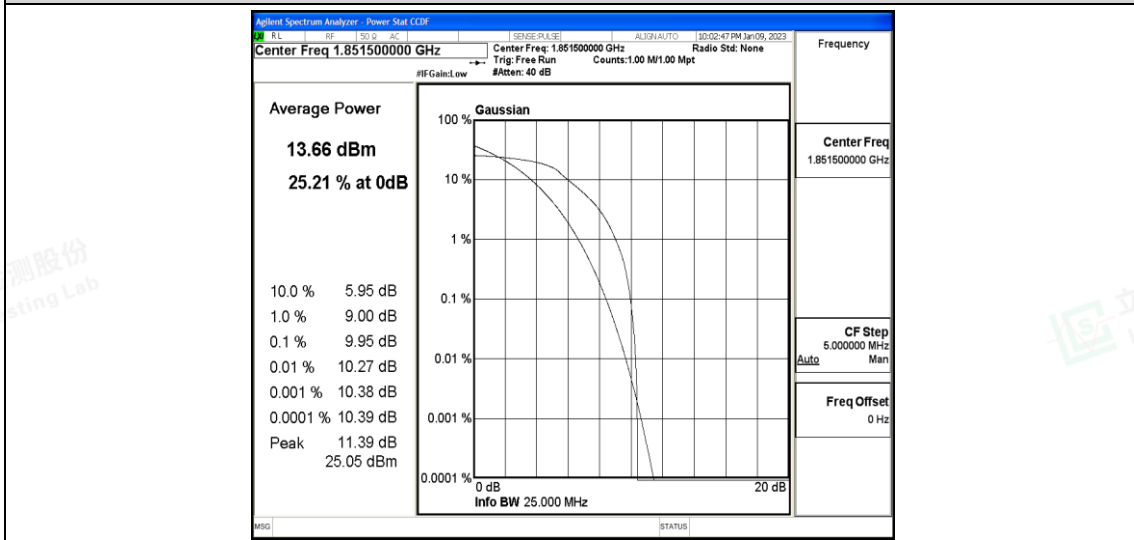


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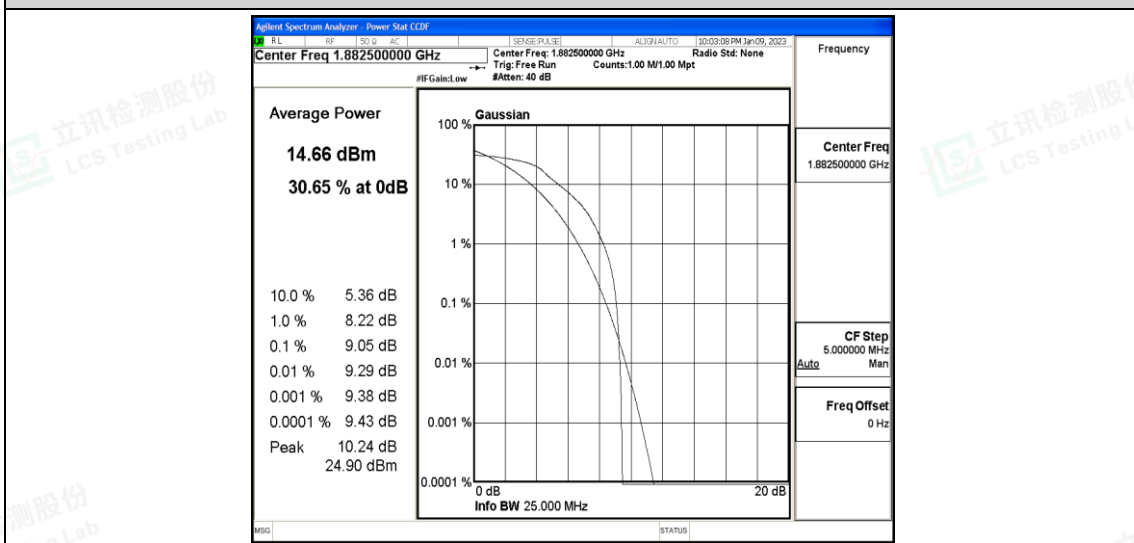




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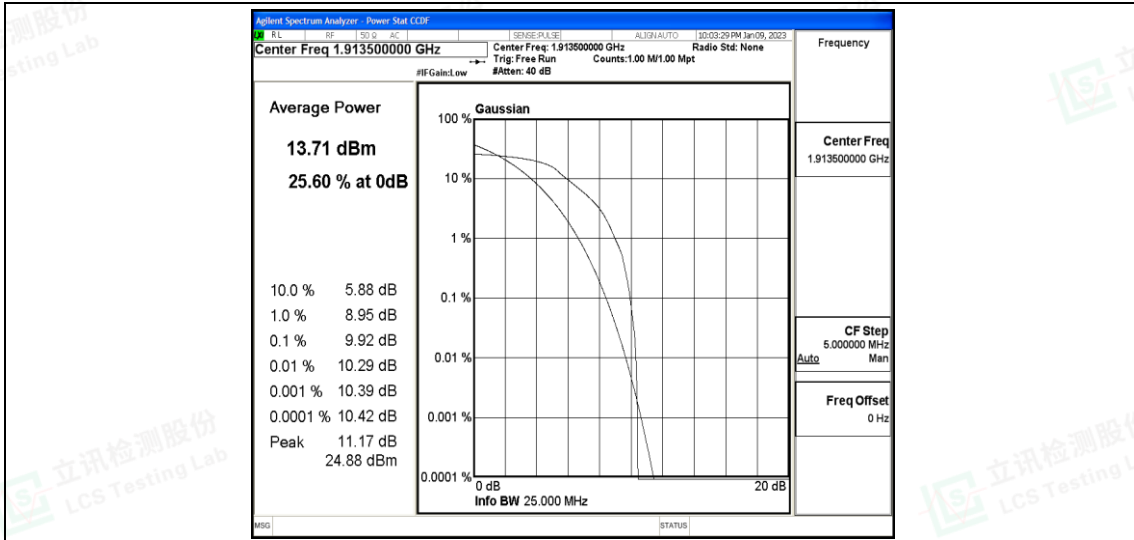


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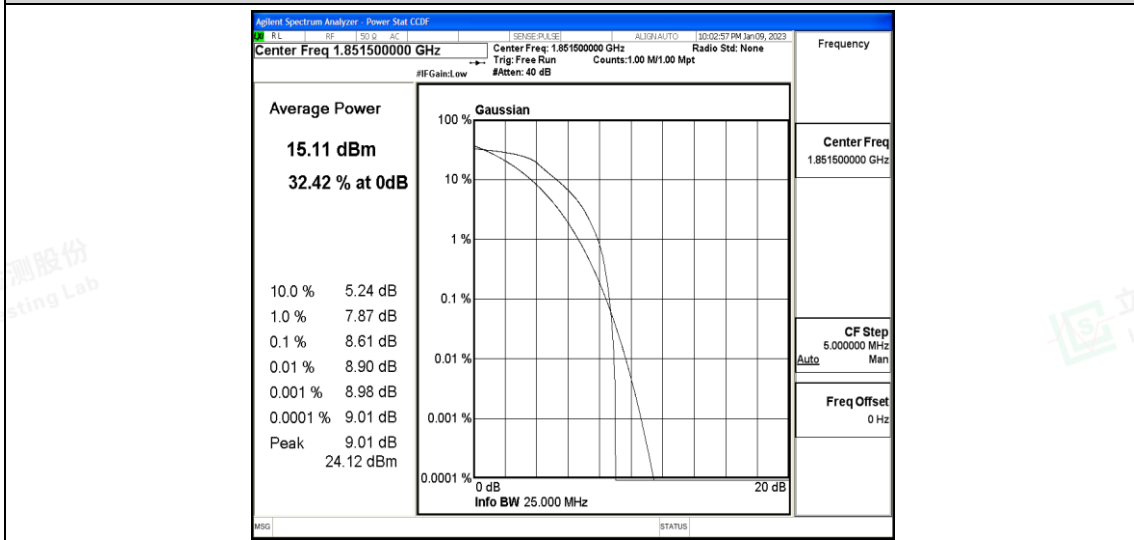


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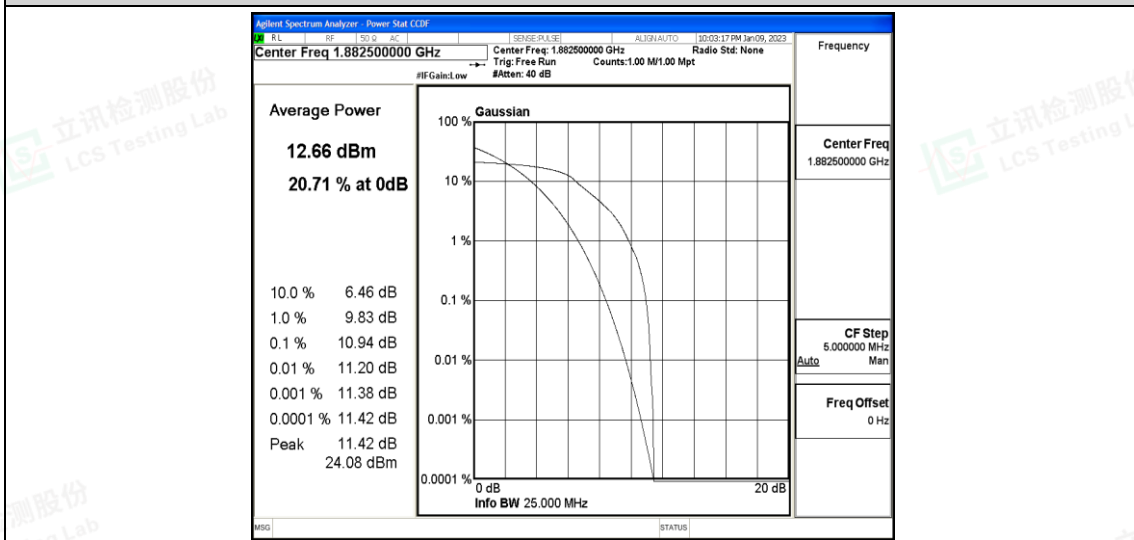




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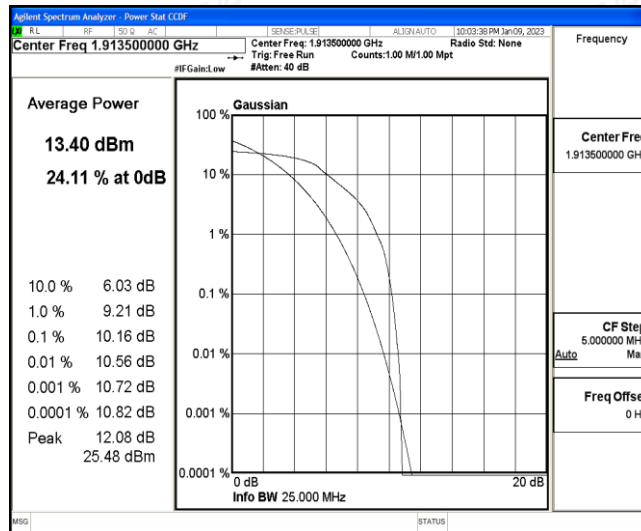


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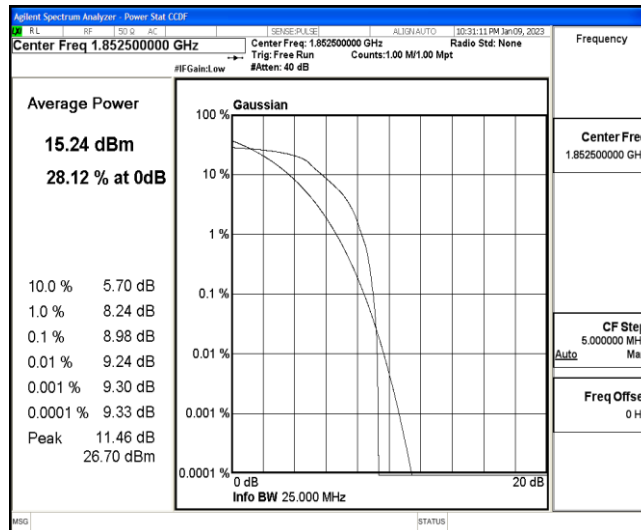


Band25-3MHz-16QAM-26365-6-0-Low-10.94-<=13-PASS

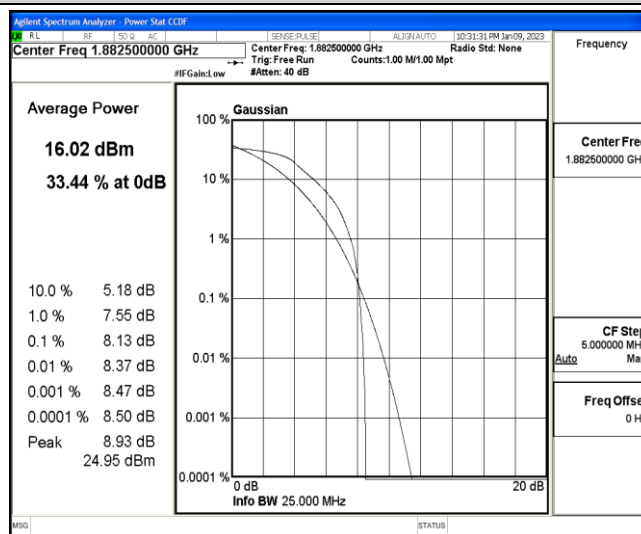




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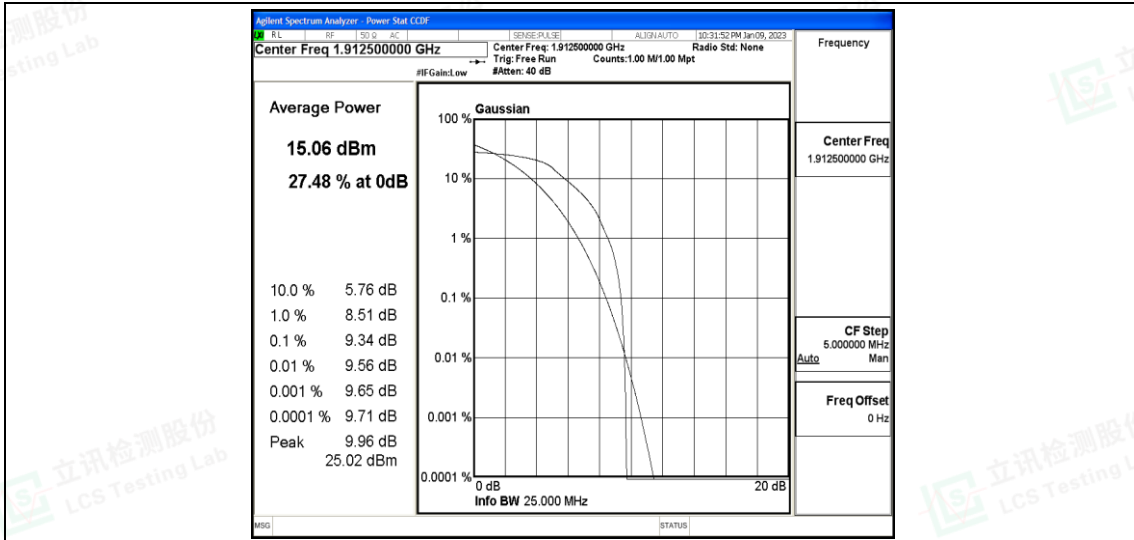


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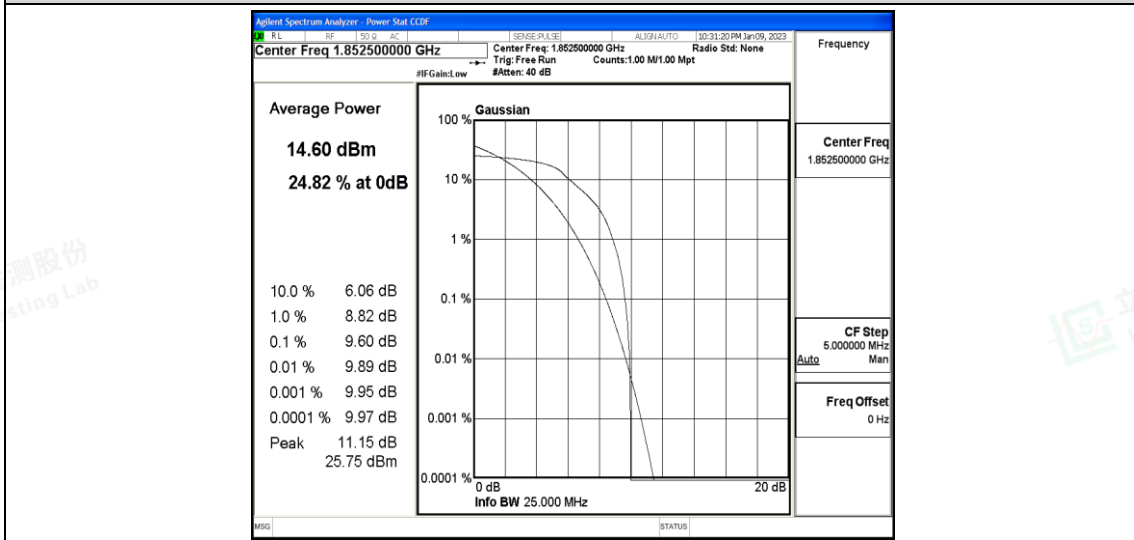


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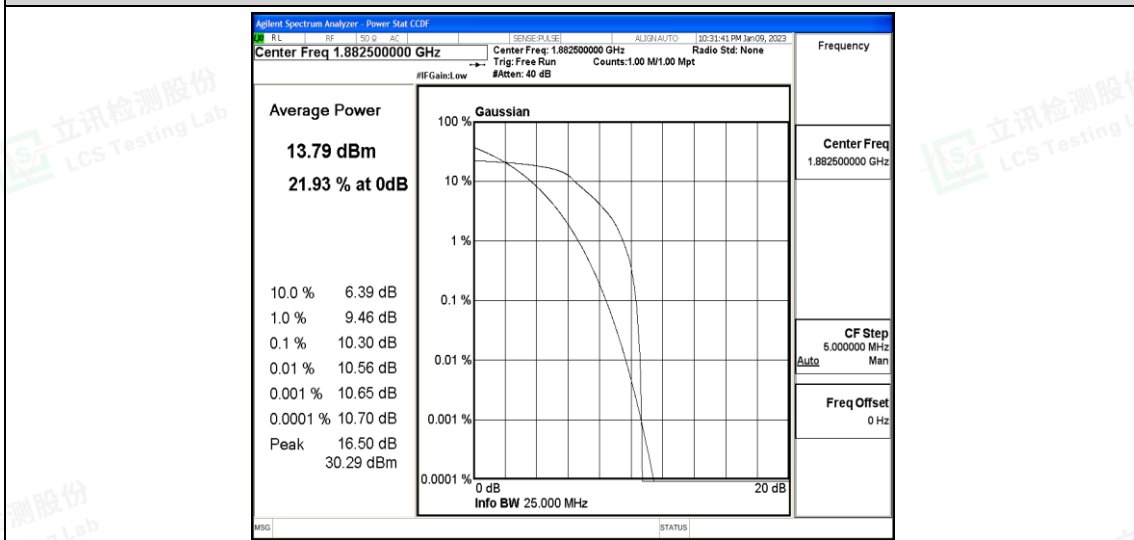




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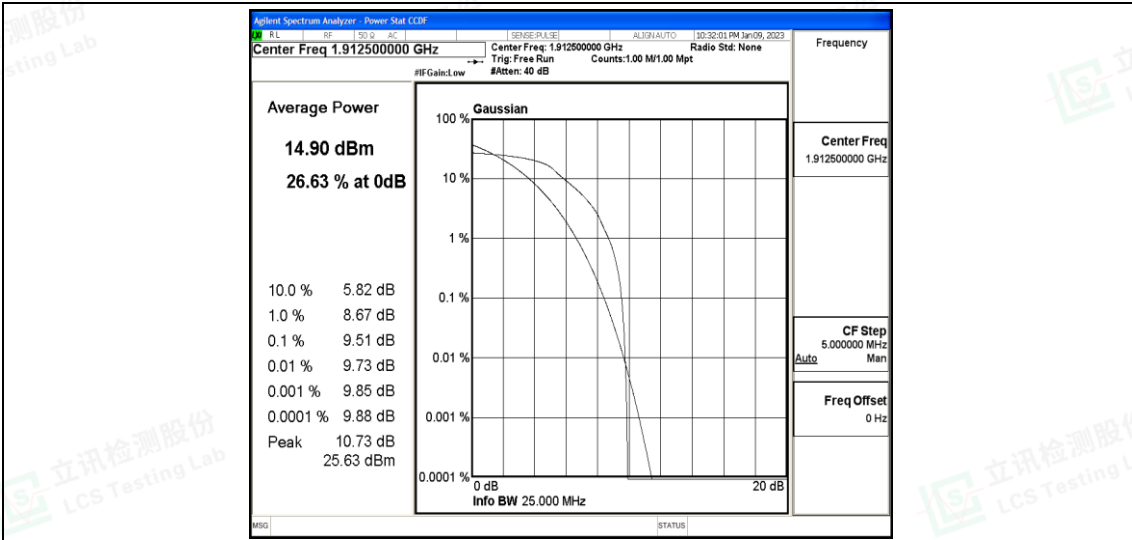


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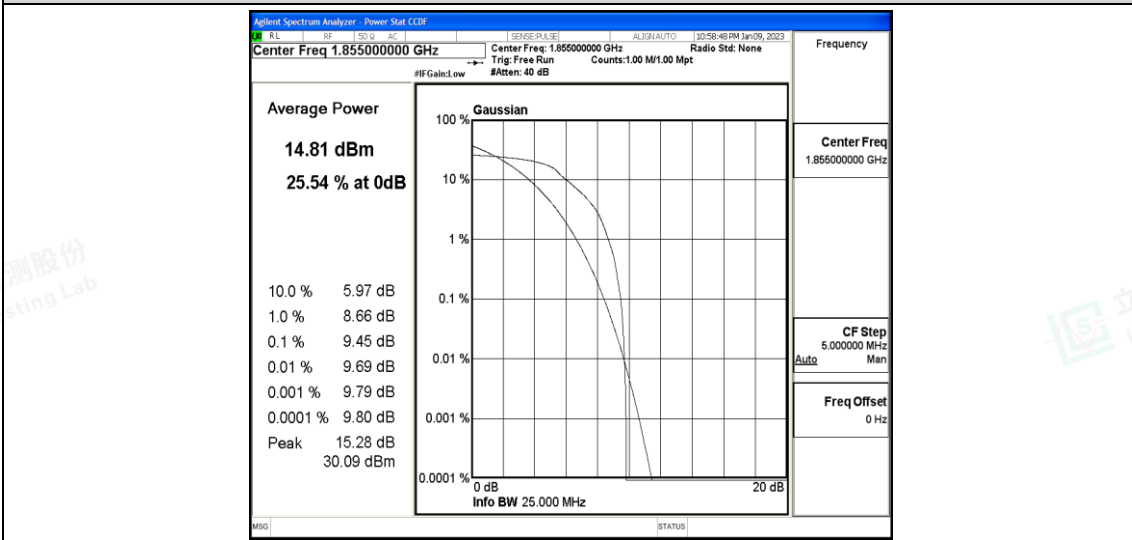


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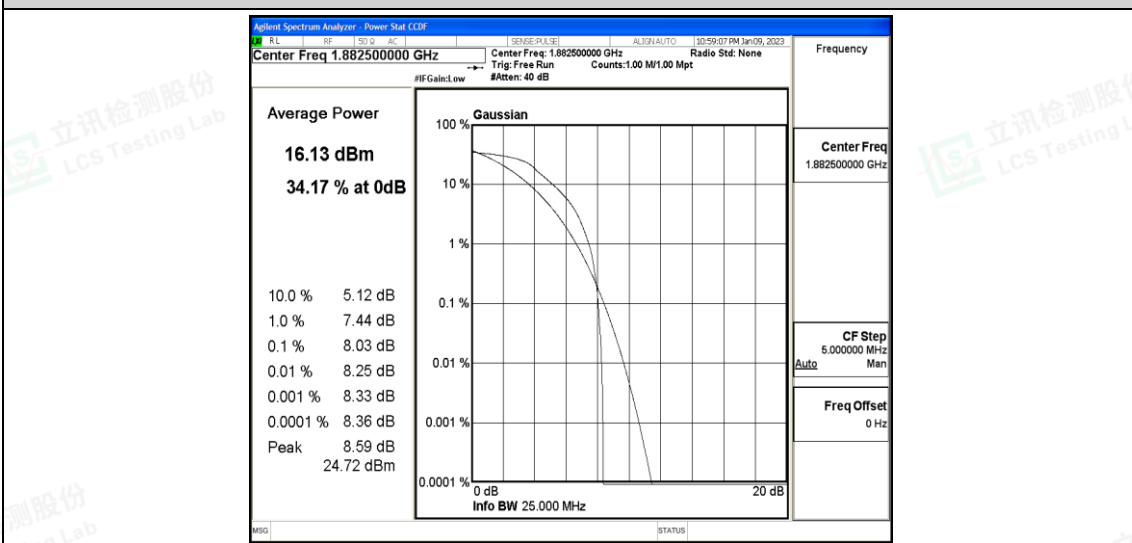




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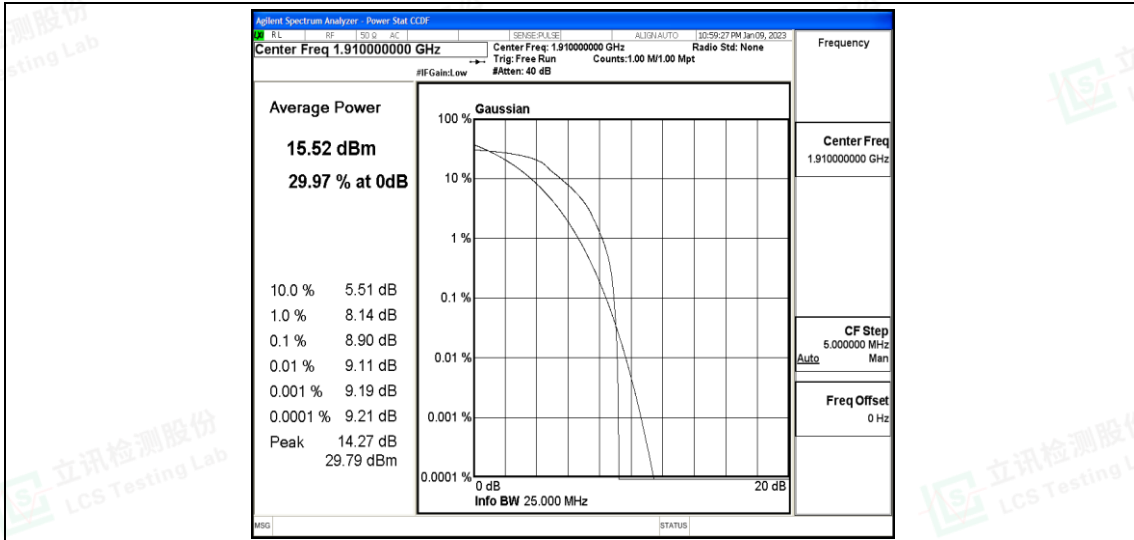


Band25-10MHz-QPSK-26090-6-0-Low-9.45-<=13-PASS

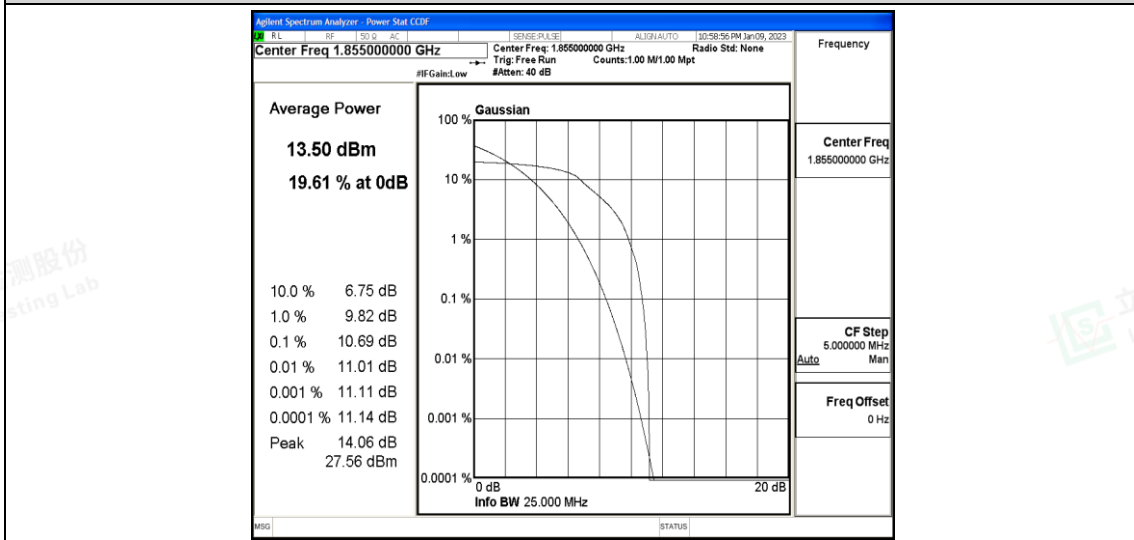


Band25-10MHz-QPSK-26365-6-0-Low-8.03-<=13-PASS

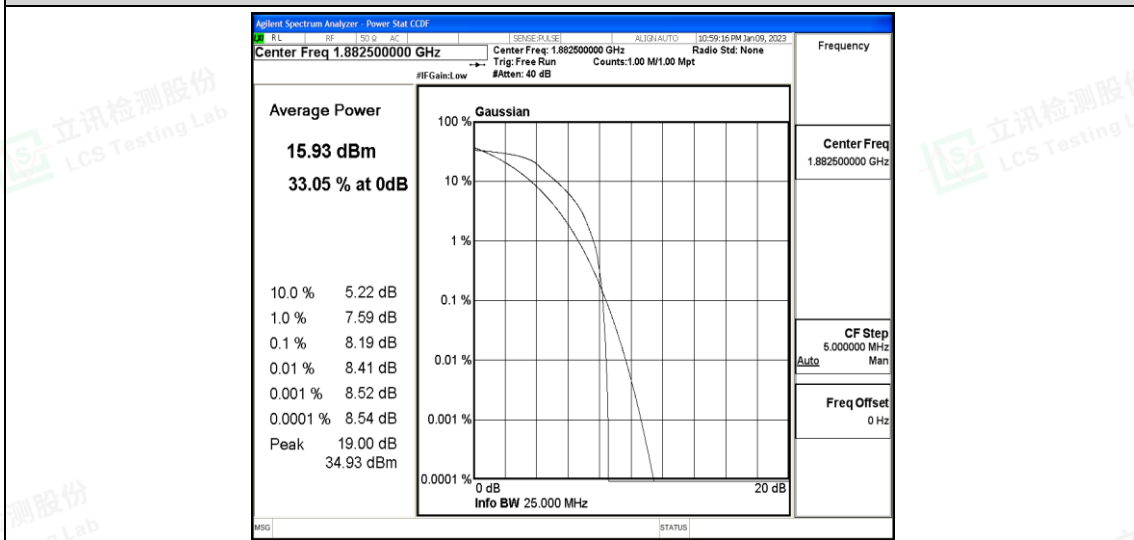




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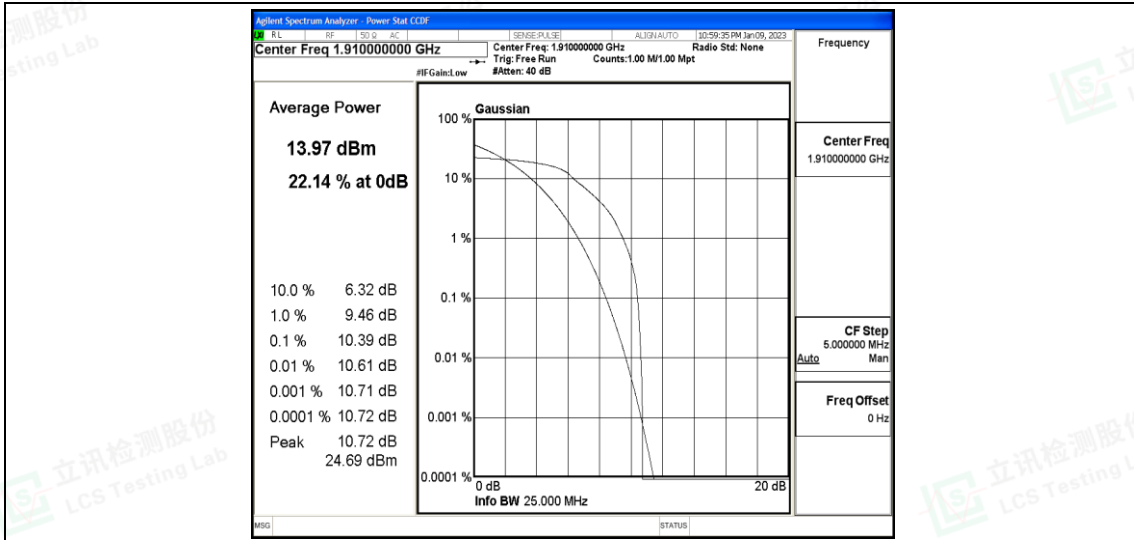


Band25-10MHz-16QAM-26090-6-0-Low-10.69-<=13-PASS

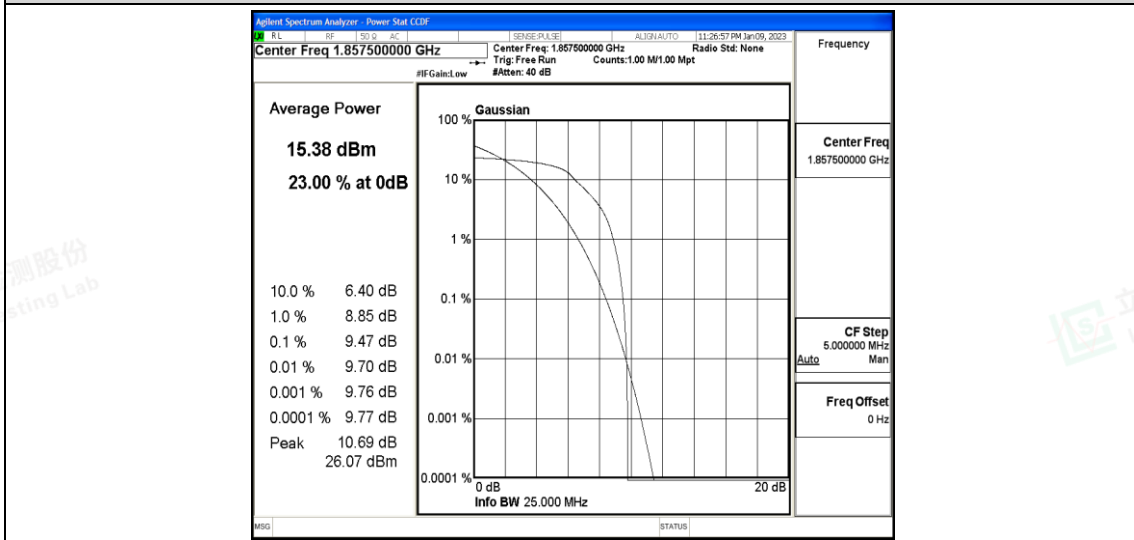


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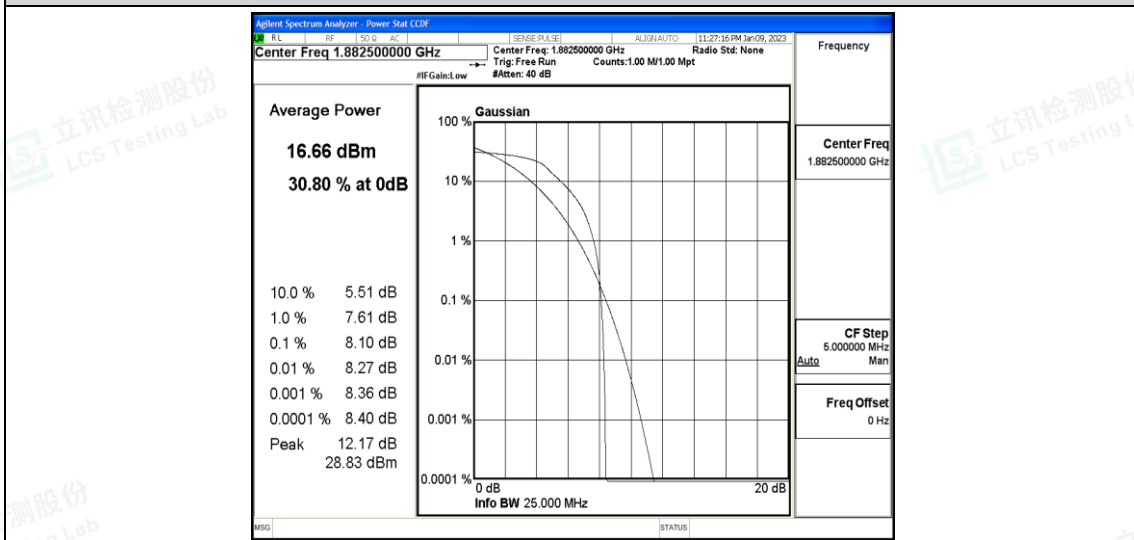




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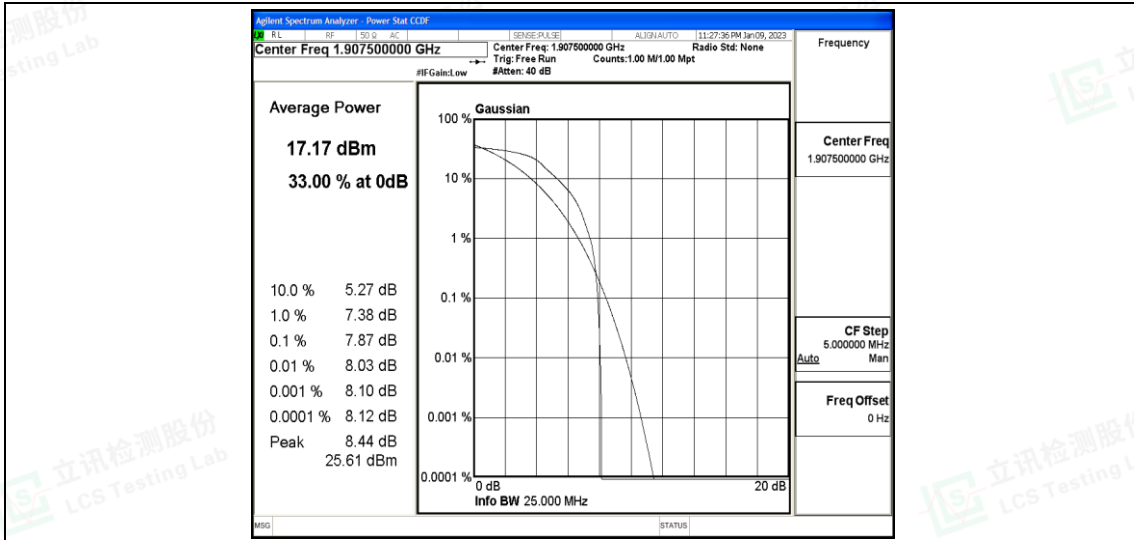


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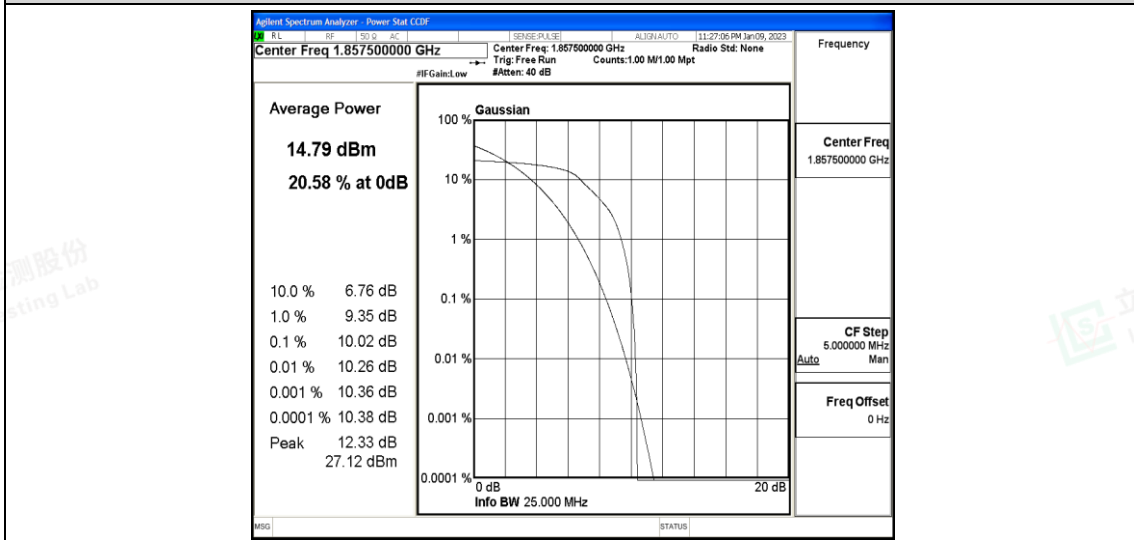


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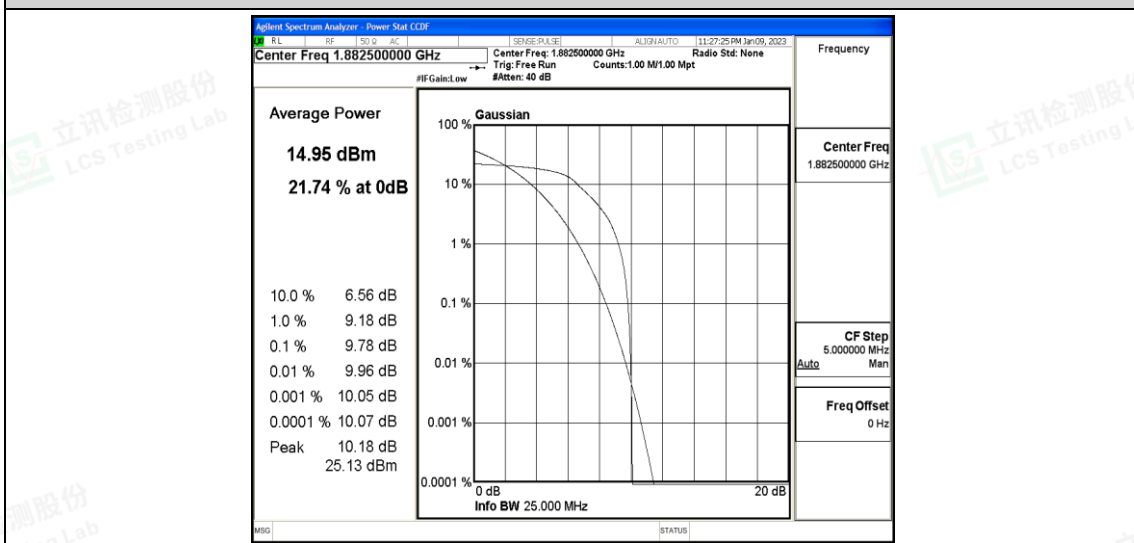




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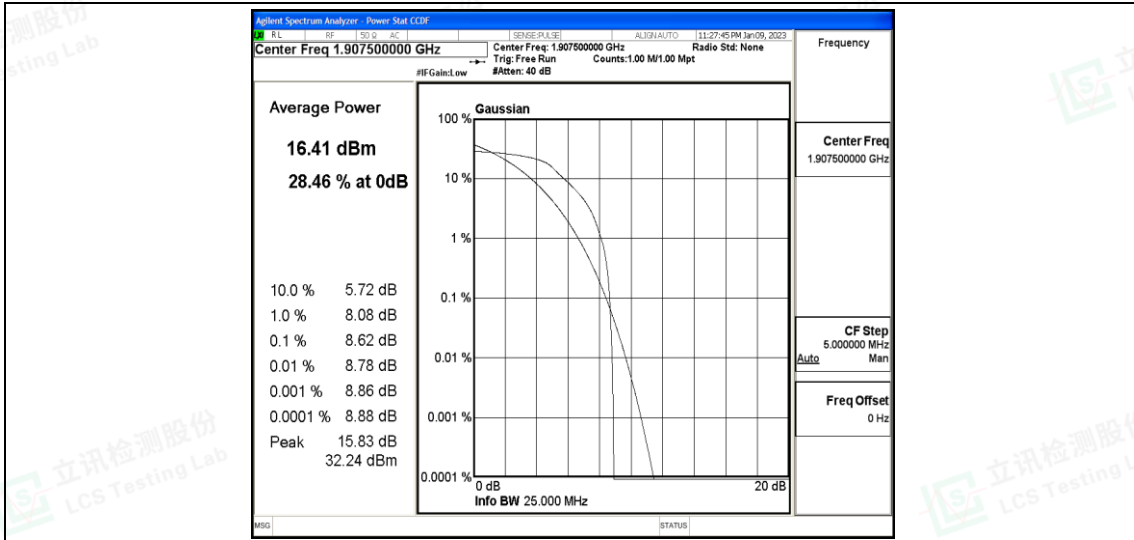


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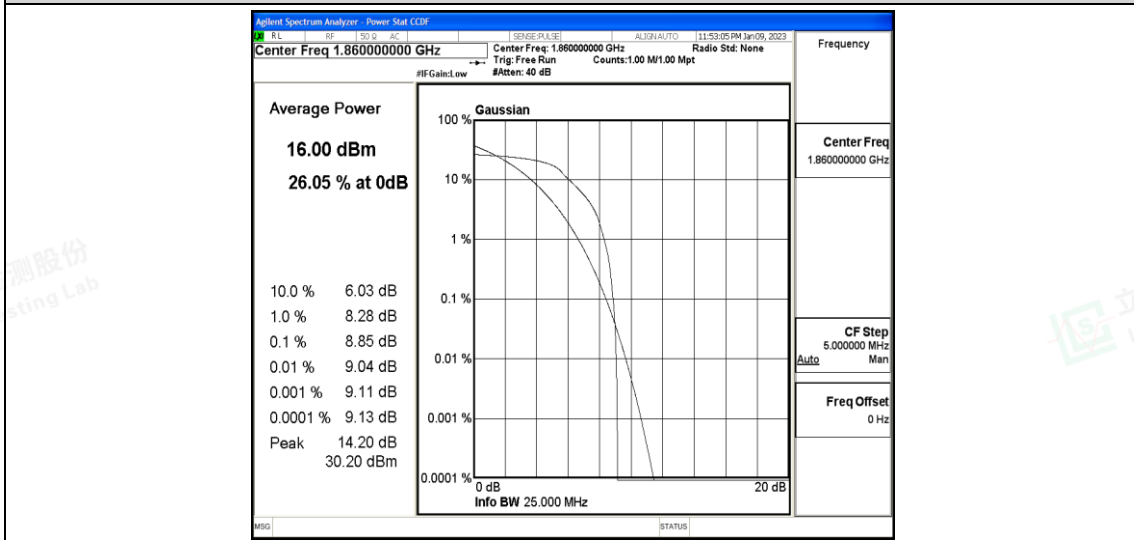


Band25-15MHz-16QAM-26365-6-0-Low-9.78-<=13-PASS

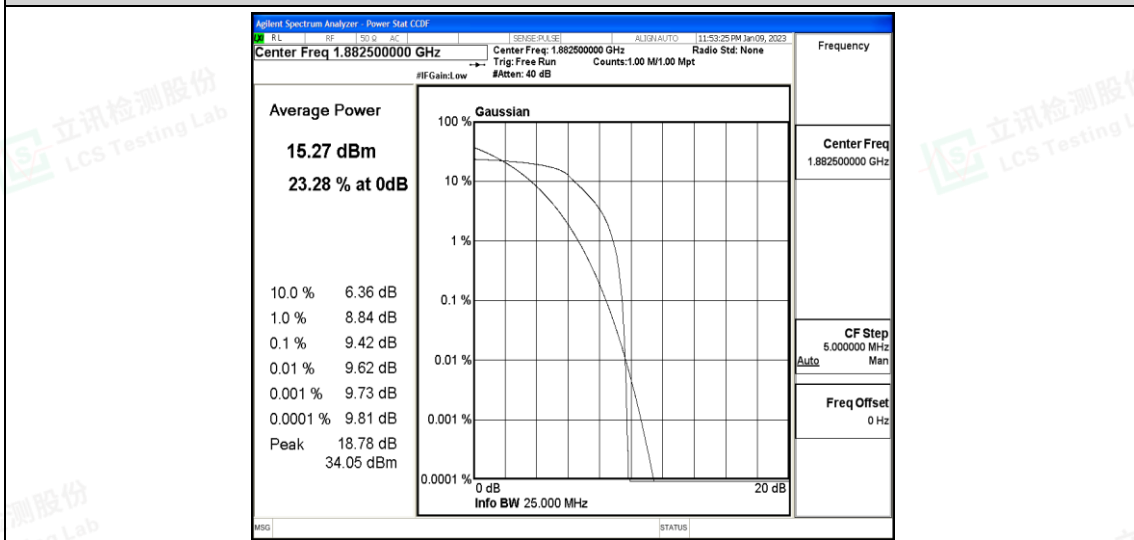




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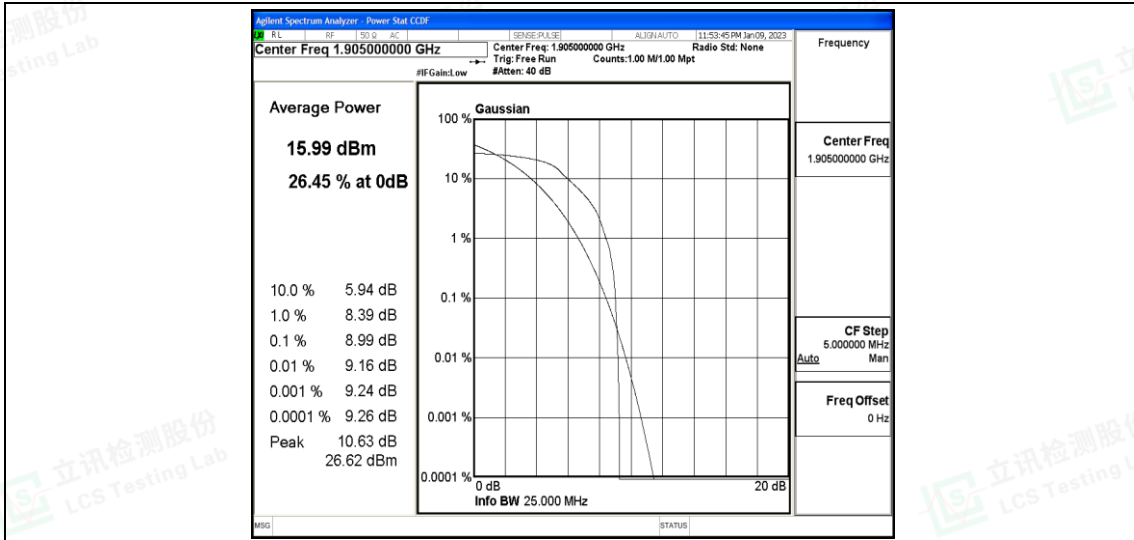


Band25-20MHz-QPSK-26140-6-0-Low-8.85-<=13-PASS

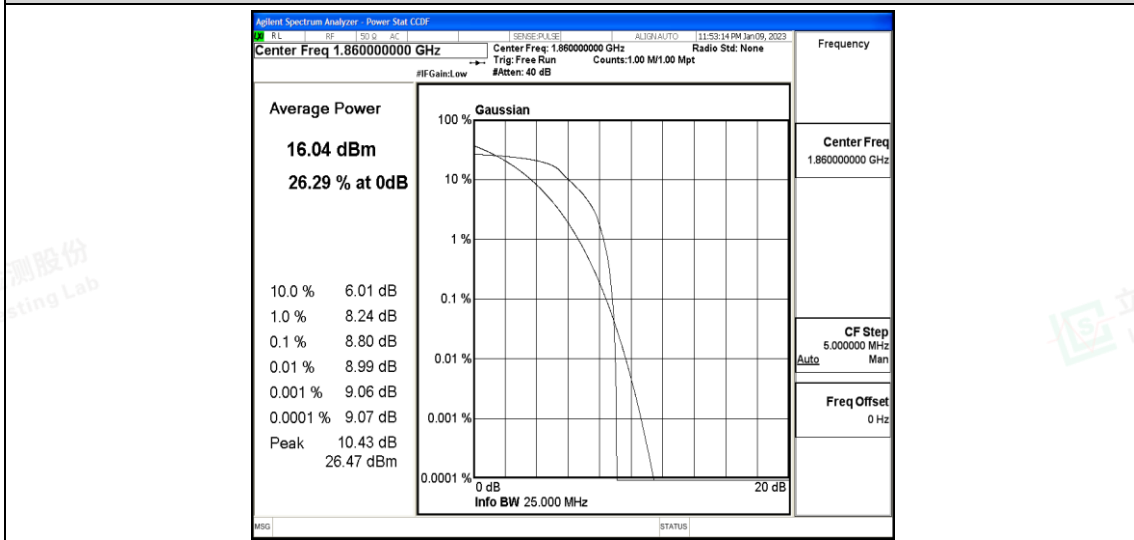


Band25-20MHz-QPSK-26365-6-0-Low-9.42-<=13-PASS

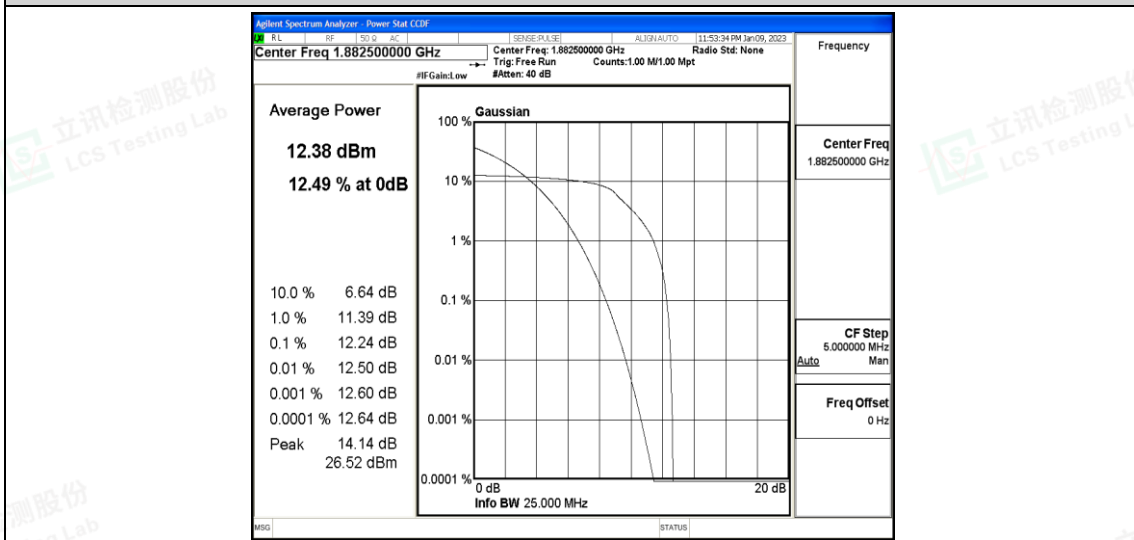




Band25-20MHz-QPSK-26590-6-0-High-8.99-<=13-PASS

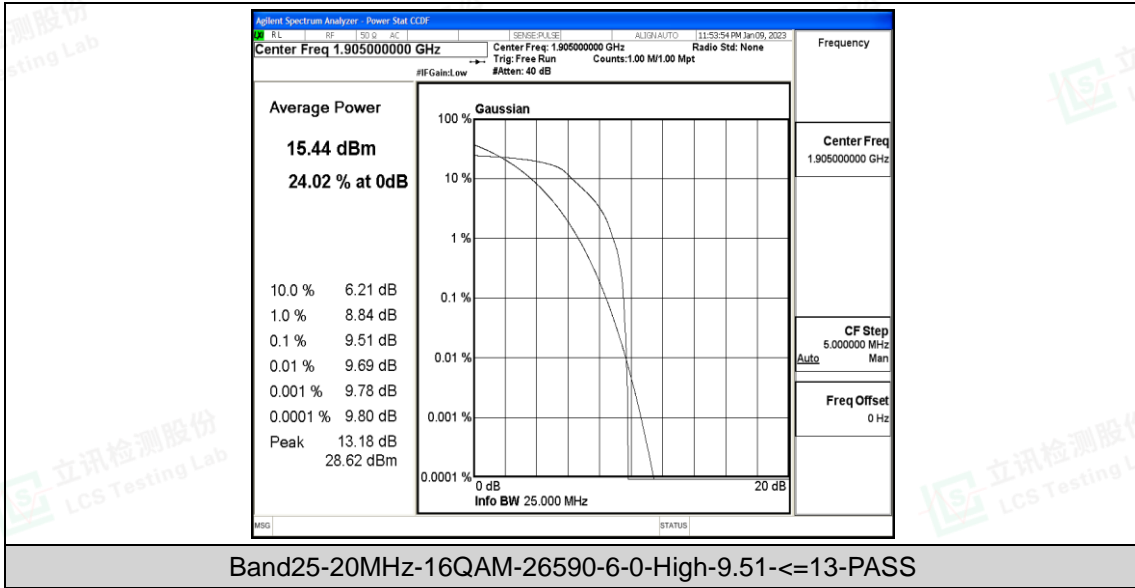


Band25-20MHz-16QAM-26140-6-0-Low-8.80-<=13-PASS



Band25-20MHz-16QAM-26365-6-0-Low-12.24-<=13-PASS







D.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
Band25	1.4MHz	26047	QPSK	6	0	Low	1.0879	1.284	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	1.0876	1.250	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	1.0965	1.288	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	1.0854	1.263	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	1.0902	1.259	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	1.0954	1.295	PASS
Band25	3MHz	26055	QPSK	6	0	Low	1.1165	1.323	PASS
Band25	3MHz	26365	QPSK	6	0	Low	1.1126	1.384	PASS
Band25	3MHz	26675	QPSK	6	0	High	1.1047	1.316	PASS
Band25	3MHz	26055	16QAM	6	0	Low	1.1211	1.311	PASS
Band25	3MHz	26365	16QAM	6	0	Low	1.1144	1.336	PASS
Band25	3MHz	26675	16QAM	6	0	High	1.1147	1.319	PASS
Band25	5MHz	26065	QPSK	6	0	Low	1.1819	1.564	PASS
Band25	5MHz	26365	QPSK	6	0	Low	1.1697	1.551	PASS
Band25	5MHz	26665	QPSK	6	0	High	1.1676	1.470	PASS
Band25	5MHz	26065	16QAM	6	0	Low	1.1789	1.649	PASS
Band25	5MHz	26365	16QAM	6	0	Low	1.1763	1.524	PASS
Band25	5MHz	26665	16QAM	6	0	High	1.1962	1.475	PASS
Band25	10MHz	26090	QPSK	6	0	Low	1.3257	2.946	PASS
Band25	10MHz	26365	QPSK	6	0	Low	1.3351	2.288	PASS
Band25	10MHz	26640	QPSK	6	0	High	1.3385	1.667	PASS
Band25	10MHz	26090	16QAM	6	0	Low	1.3475	2.708	PASS
Band25	10MHz	26365	16QAM	6	0	Low	1.3339	2.331	PASS
Band25	10MHz	26640	16QAM	6	0	High	1.3402	1.886	PASS
Band25	15MHz	26115	QPSK	6	0	Low	1.5489	3.699	PASS
Band25	15MHz	26365	QPSK	6	0	Low	1.5941	2.639	PASS
Band25	15MHz	26615	QPSK	6	0	High	1.5175	2.088	PASS
Band25	15MHz	26115	16QAM	6	0	Low	1.5954	3.808	PASS
Band25	15MHz	26365	16QAM	6	0	Low	1.6681	3.375	PASS
Band25	15MHz	26615	16QAM	6	0	High	1.5155	2.125	PASS
Band25	20MHz	26140	QPSK	6	0	Low	2.3623	5.213	PASS
Band25	20MHz	26365	QPSK	6	0	Low	2.2188	4.947	PASS
Band25	20MHz	26590	QPSK	6	0	High	2.0014	4.018	PASS
Band25	20MHz	26140	16QAM	6	0	Low	2.3168	5.176	PASS



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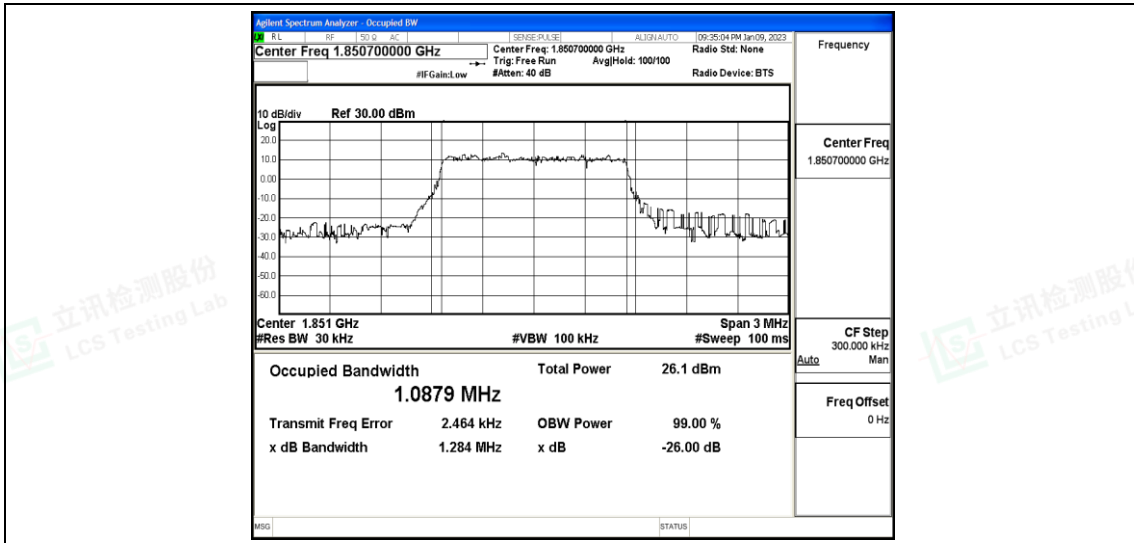


Band25	20MHz	26365	16QAM	6	0	Low	2.1952	4.936	PASS
Band25	20MHz	26590	16QAM	6	0	High	1.9811	4.318	PASS

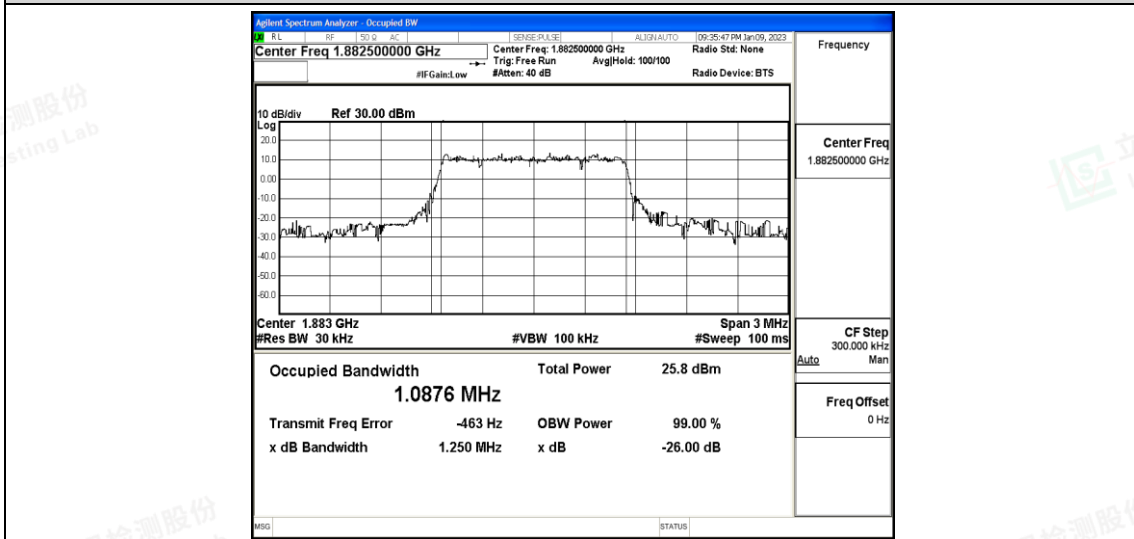




Test Graphs

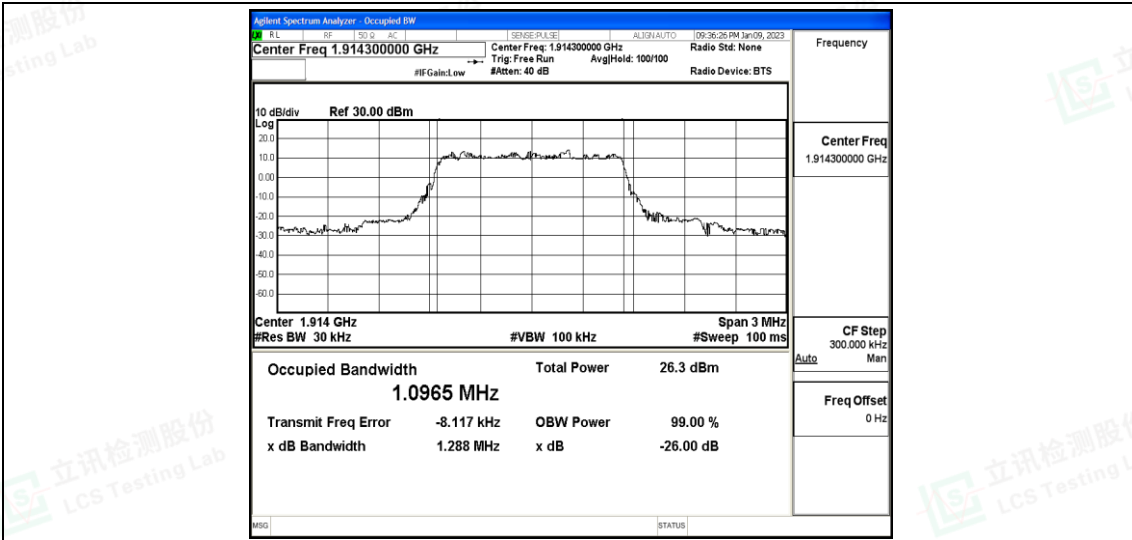


Band25-1.4MHz-QPSK-26047-6-0-Low-1.0879-1.284-PASS

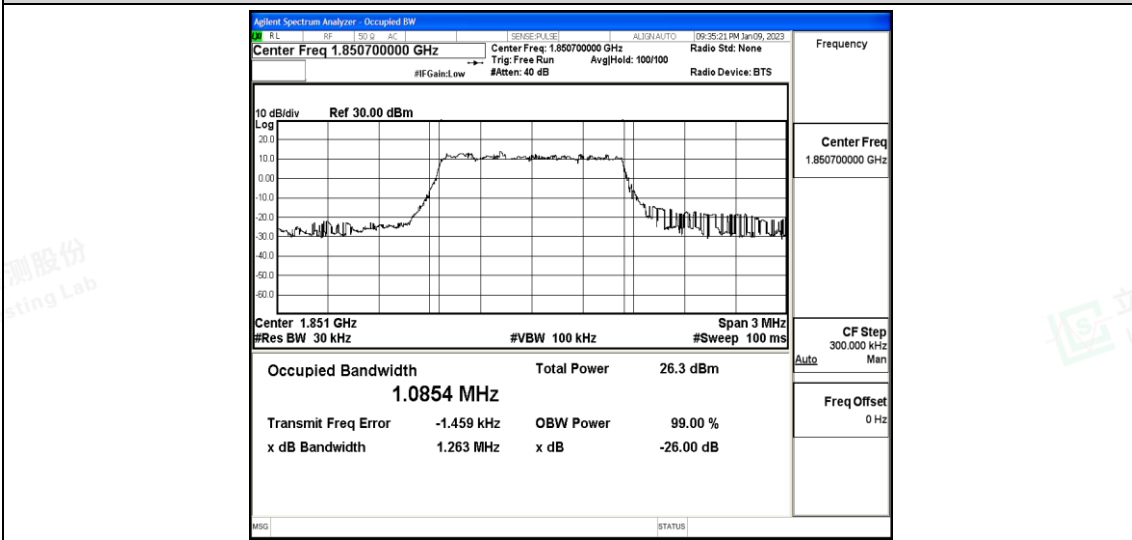


Band25-1.4MHz-QPSK-26365-6-0-Low-1.0876-1.250-PASS

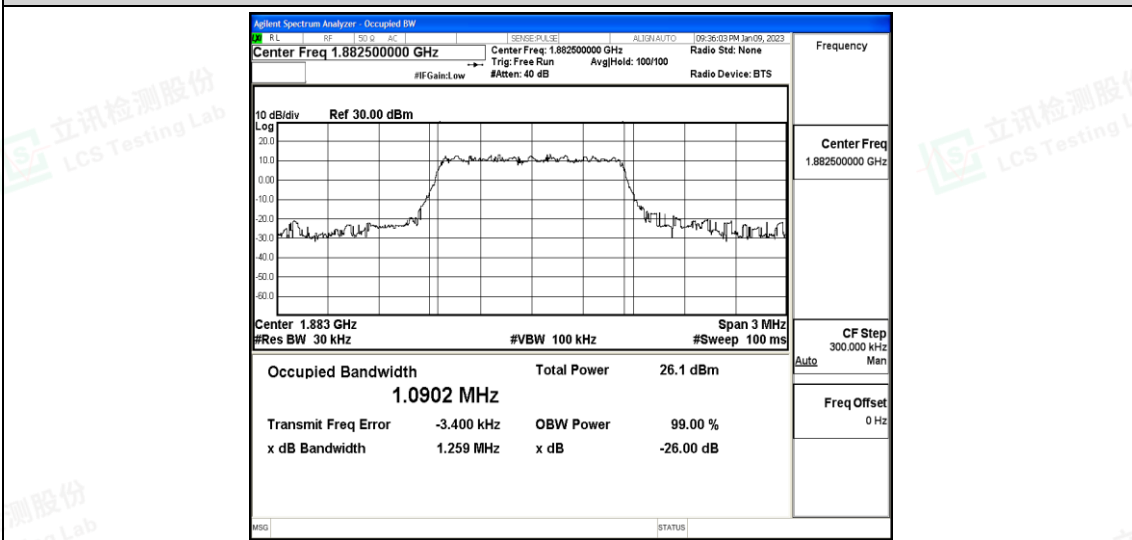




Band25-1.4MHz-QPSK-26683-6-0-High-1.0965-1.288-PASS

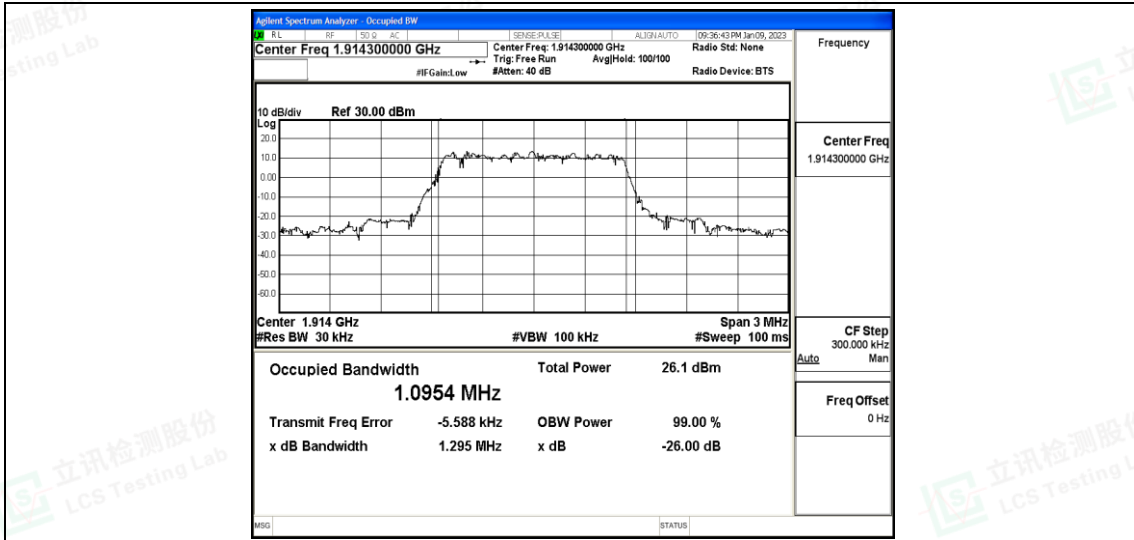


Band25-1.4MHz-16QAM-26047-6-0-Low-1.0854-1.263-PASS

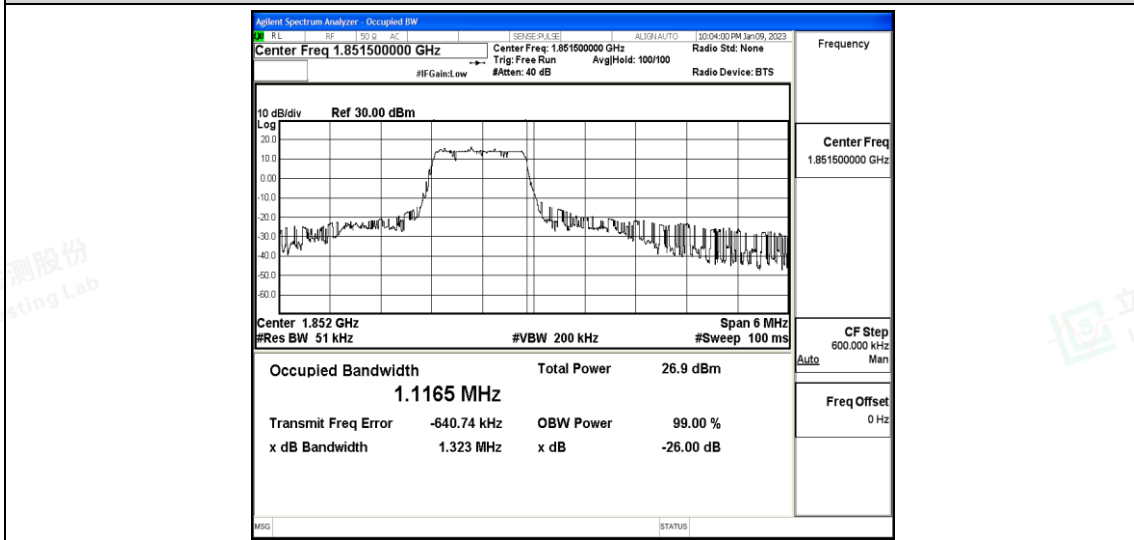


Band25-1.4MHz-16QAM-26365-6-0-Low-1.0902-1.259-PASS

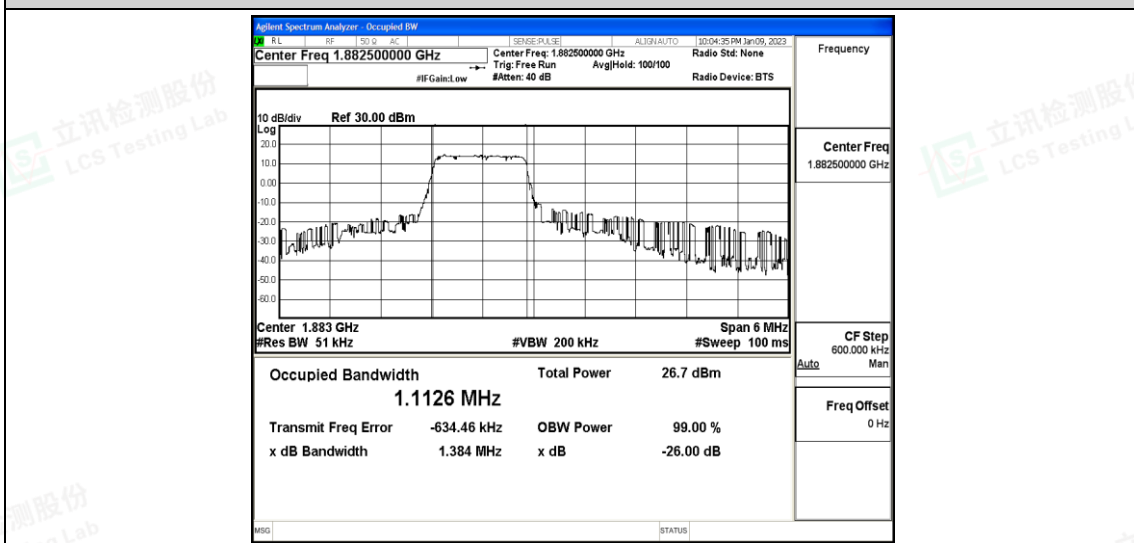




Band25-1.4MHz-16QAM-26683-6-0-High-1.0954-1.295-PASS

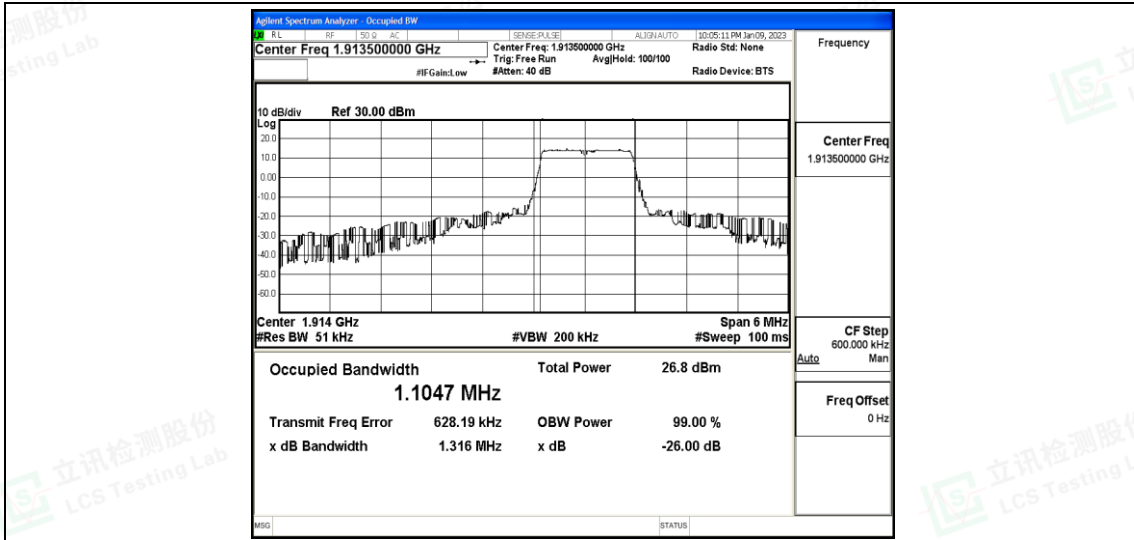


Band25-3MHz-QPSK-26055-6-0-Low-1.1165-1.323-PASS

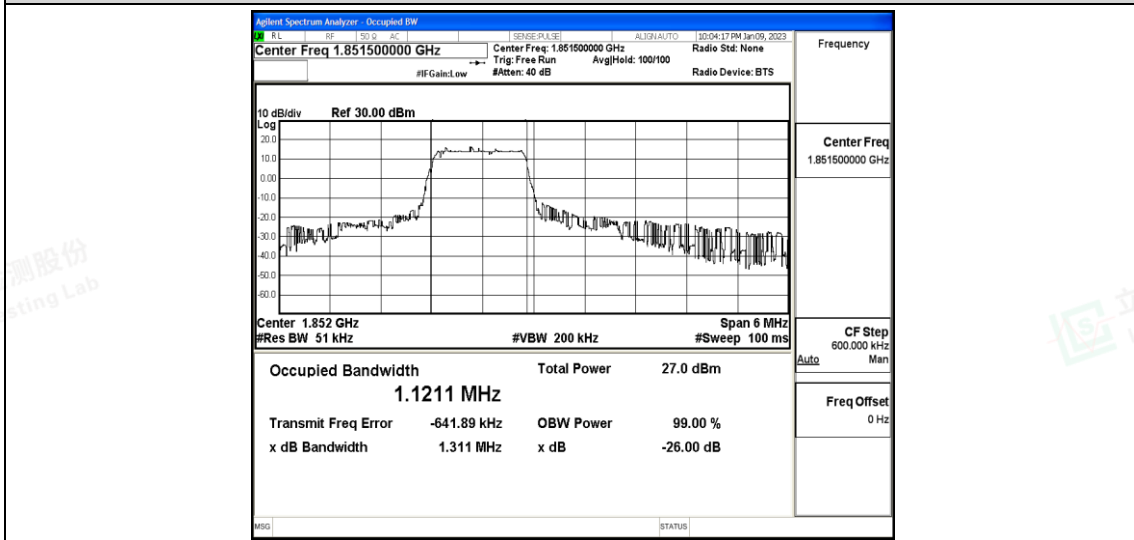


Band25-3MHz-QPSK-26365-6-0-Low-1.1126-1.384-PASS

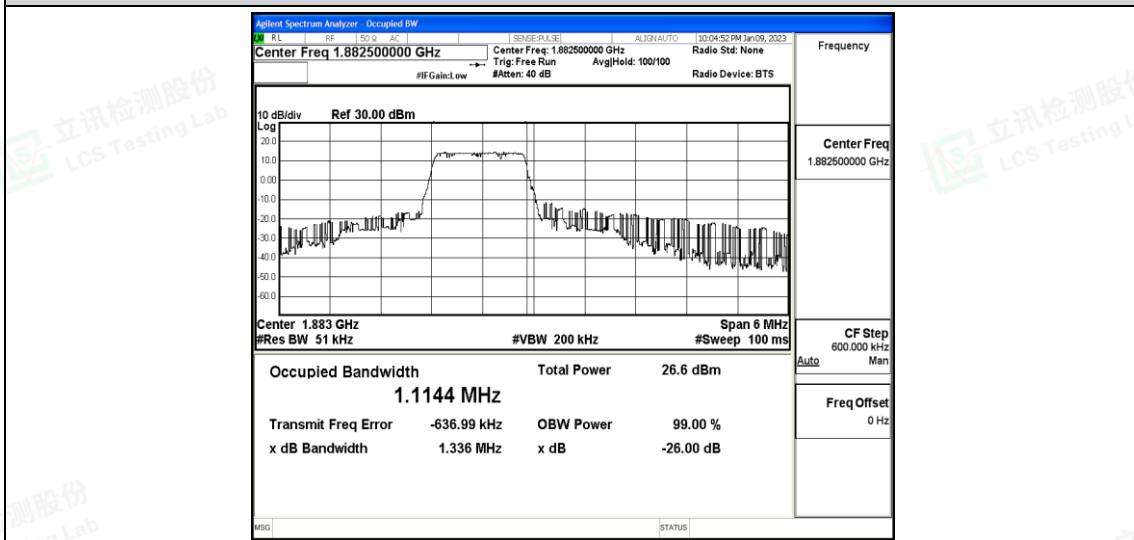




Band25-3MHz-QPSK-26675-6-0-High-1.1047-1.316-PASS

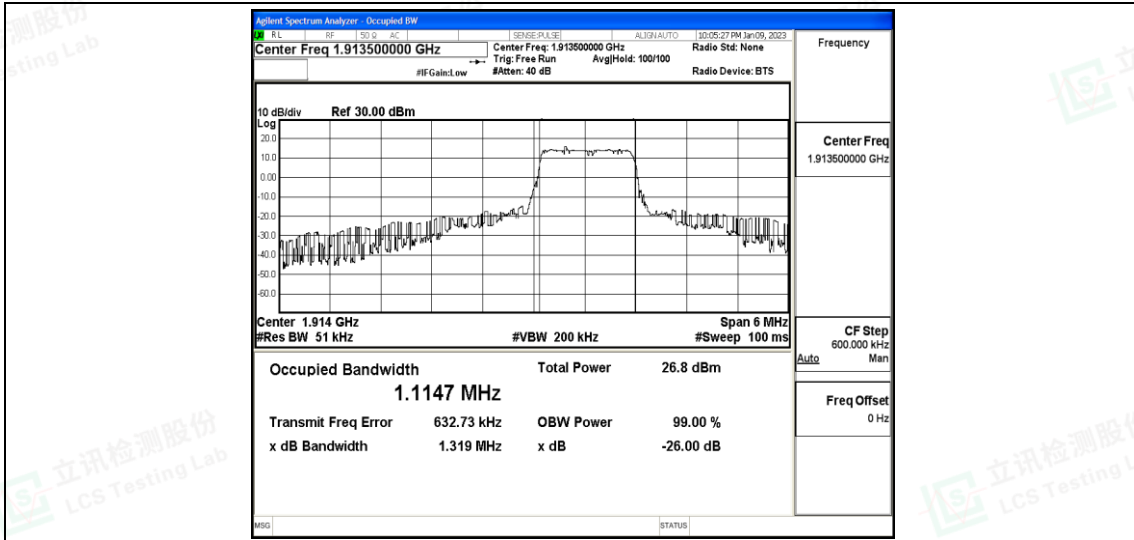


Band25-3MHz-16QAM-26055-6-0-Low-1.1211-1.311-PASS

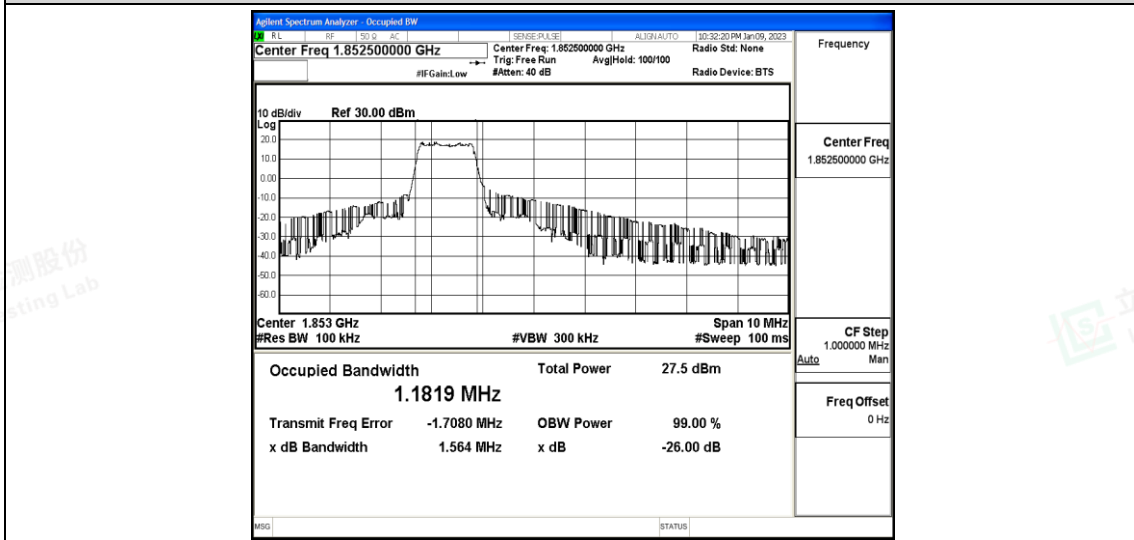


Band25-3MHz-16QAM-26365-6-0-Low-1.1144-1.336-PASS

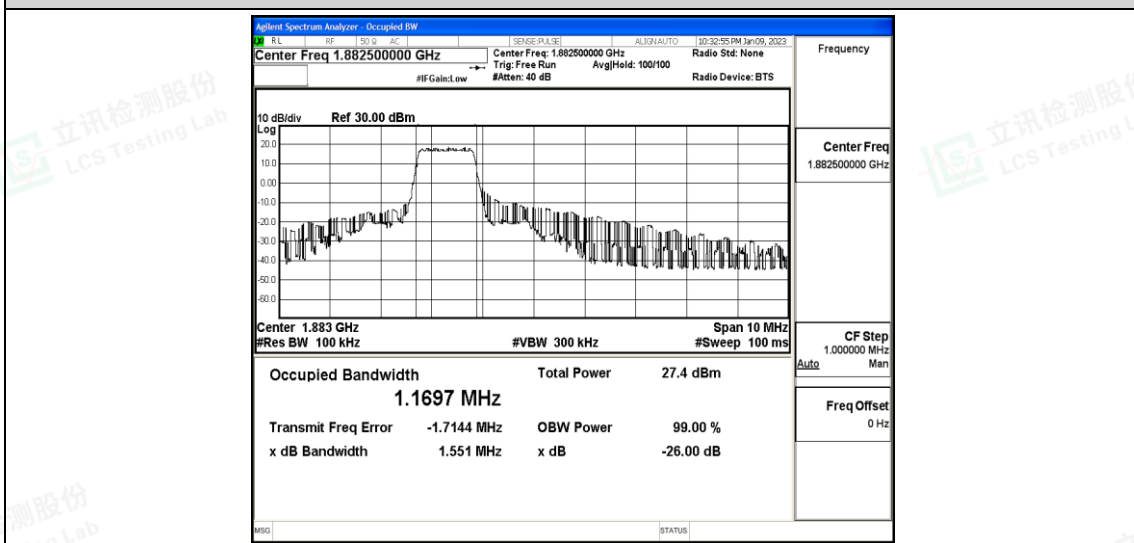




Band25-3MHz-16QAM-26675-6-0-High-1.1147-1.319-PASS

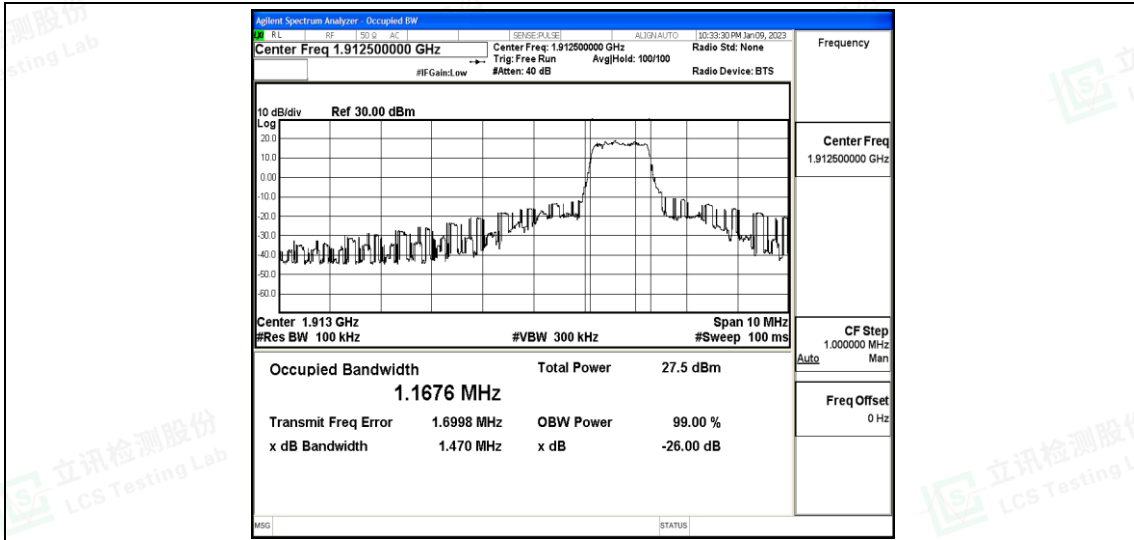


Band25-5MHz-QPSK-26065-6-0-Low-1.1819-1.564-PASS

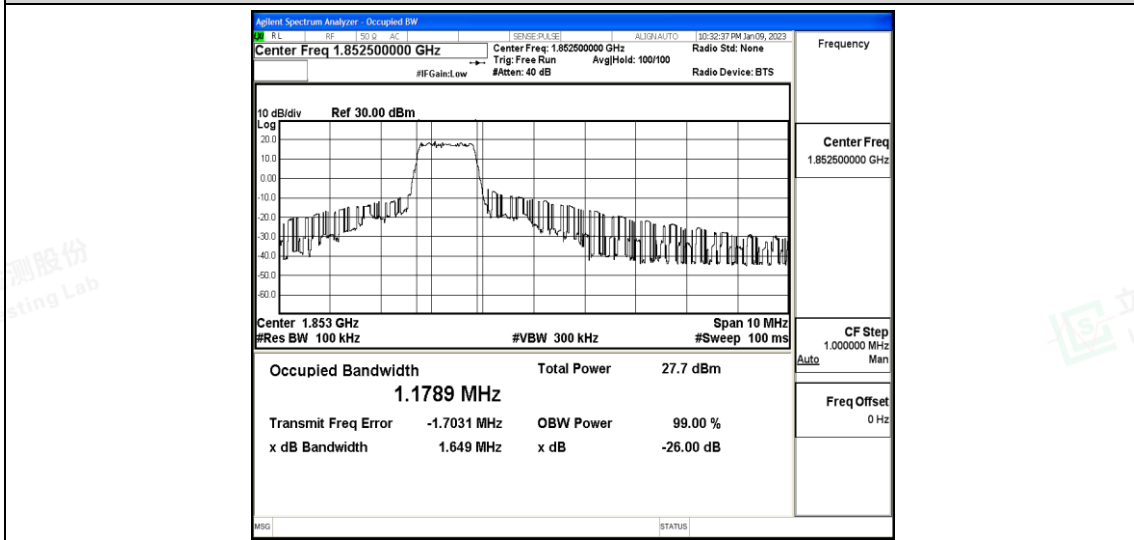


Band25-5MHz-QPSK-26365-6-0-Low-1.1697-1.551-PASS

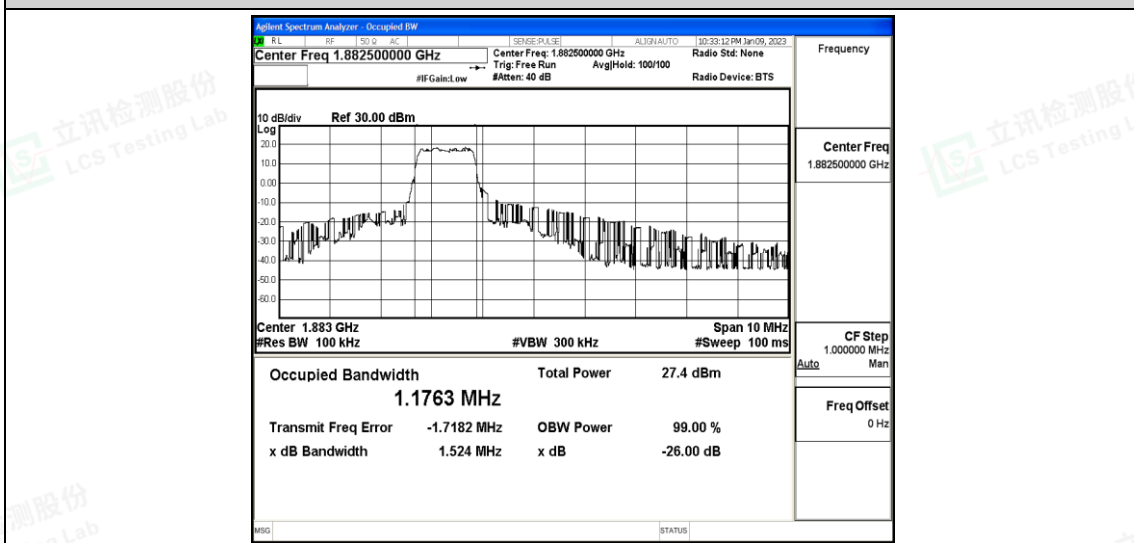




Band25-5MHz-QPSK-26665-6-0-High-1.1676-1.470-PASS

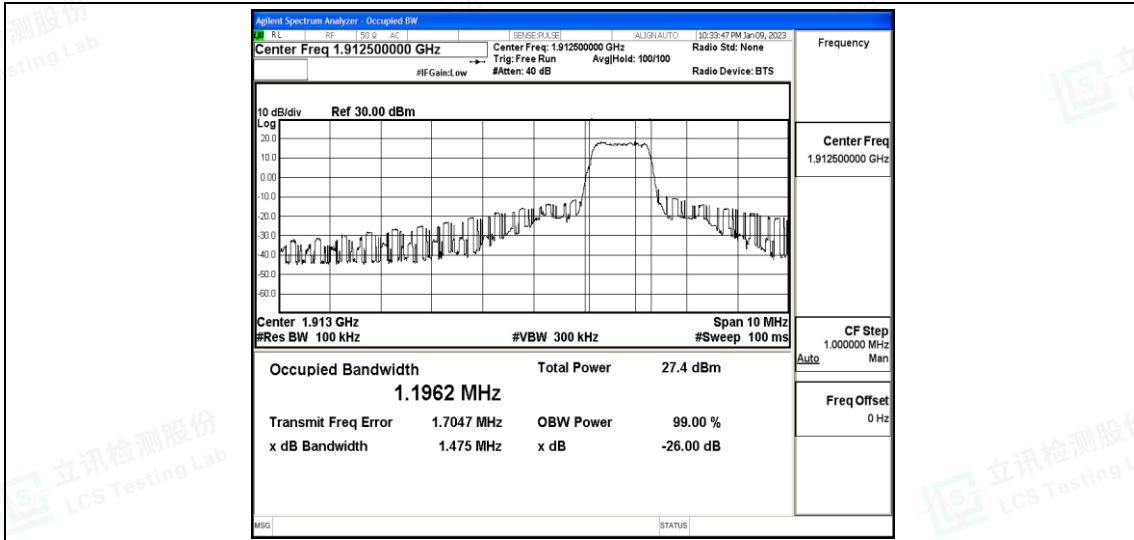


Band25-5MHz-16QAM-26065-6-0-Low-1.1789-1.649-PASS

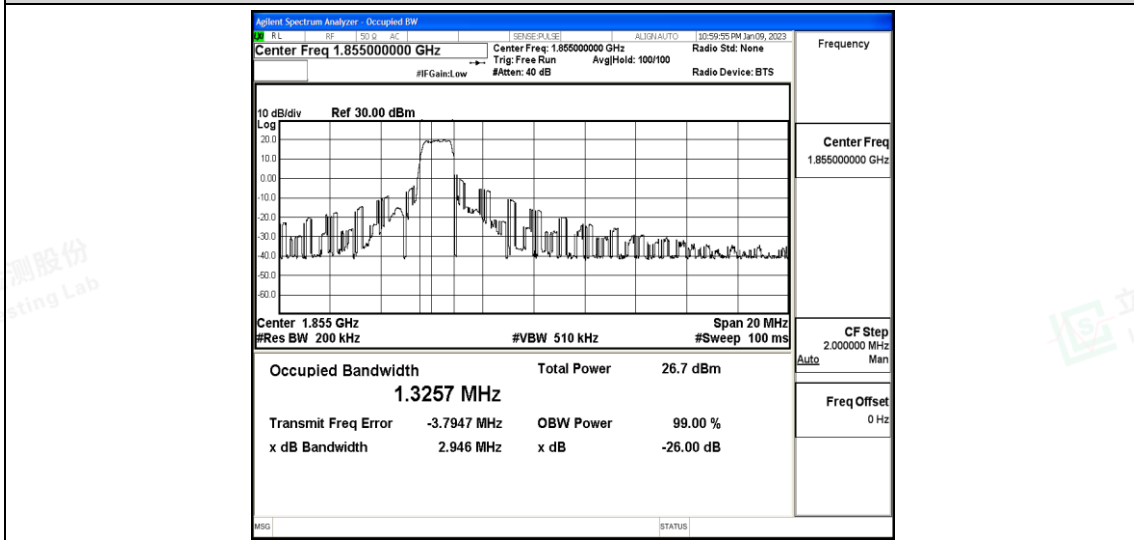


Band25-5MHz-16QAM-26365-6-0-Low-1.1763-1.524-PASS

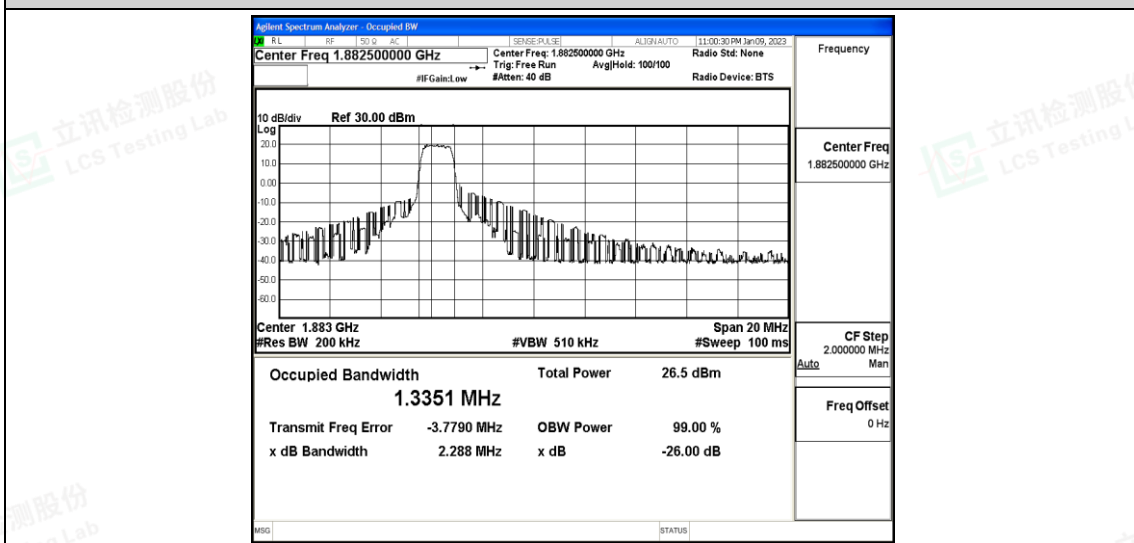




Band25-5MHz-16QAM-26665-6-0-High-1.1962-1.475-PASS

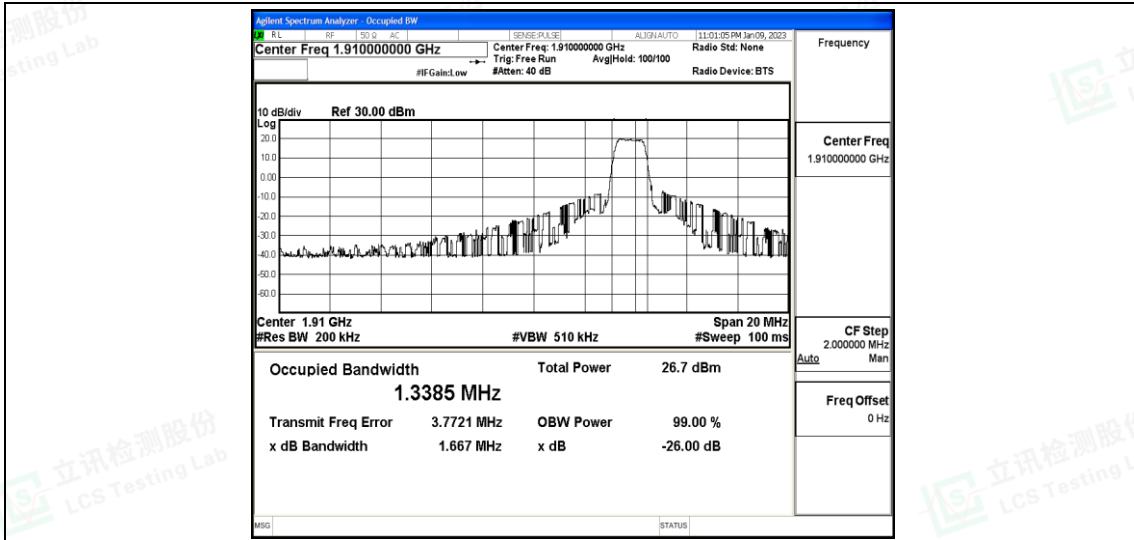


Band25-10MHz-QPSK-26090-6-0-Low-1.3257-2.946-PASS

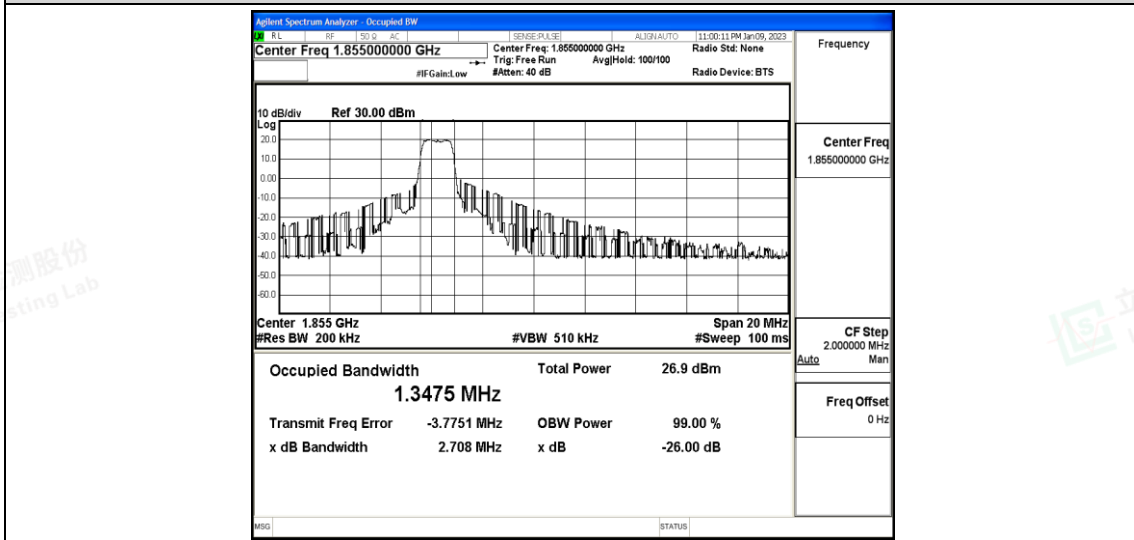


Band25-10MHz-QPSK-26365-6-0-Low-1.3351-2.288-PASS

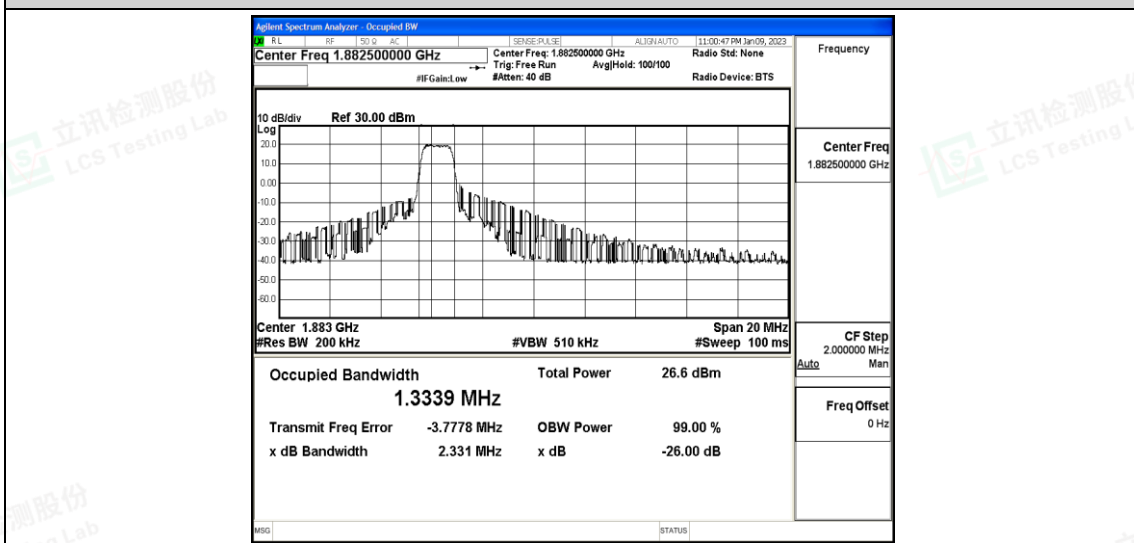




Band25-10MHz-QPSK-26640-6-0-High-1.3385-1.667-PASS

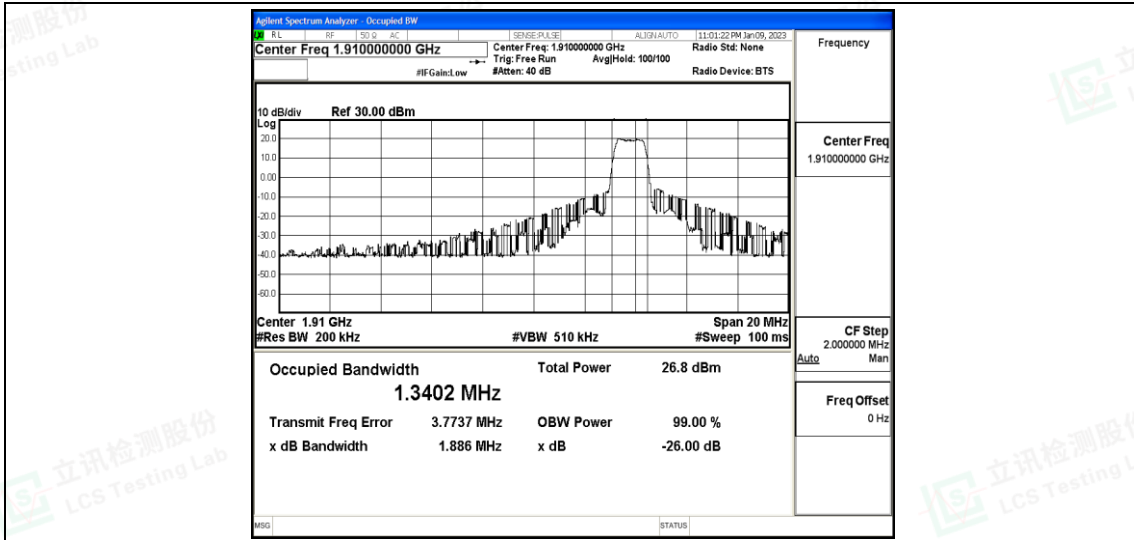


Band25-10MHz-16QAM-26090-6-0-Low-1.3475-2.708-PASS

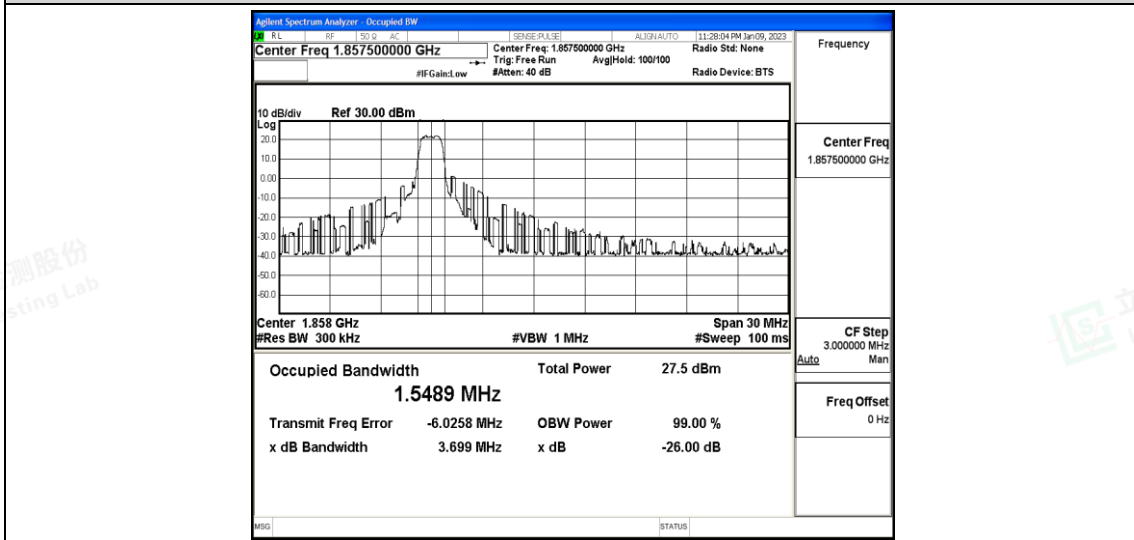


Band25-10MHz-16QAM-26365-6-0-Low-1.3339-2.331-PASS

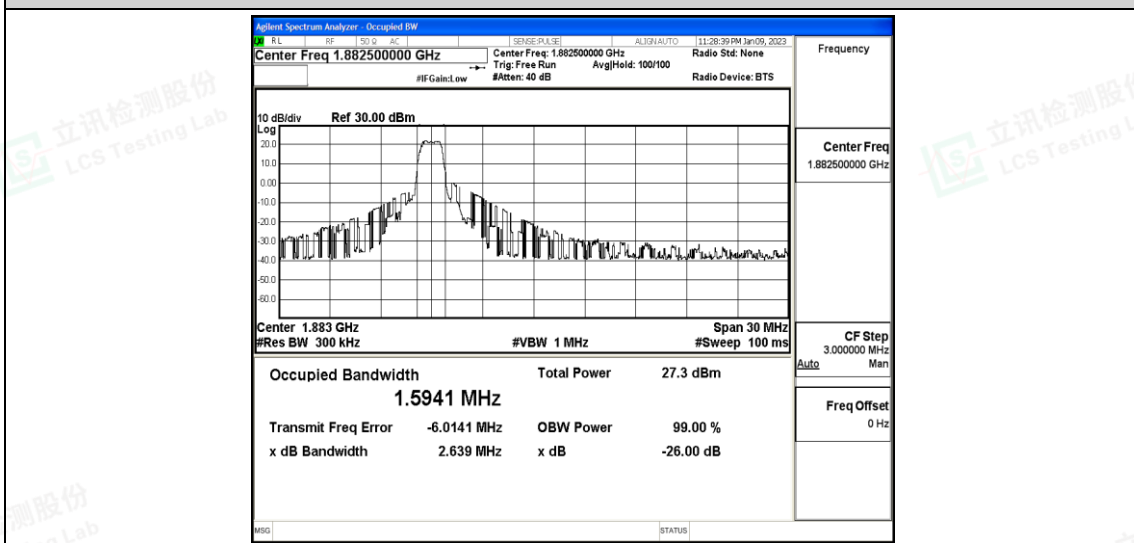




Band25-10MHz-16QAM-26640-6-0-High-1.3402-1.886-PASS

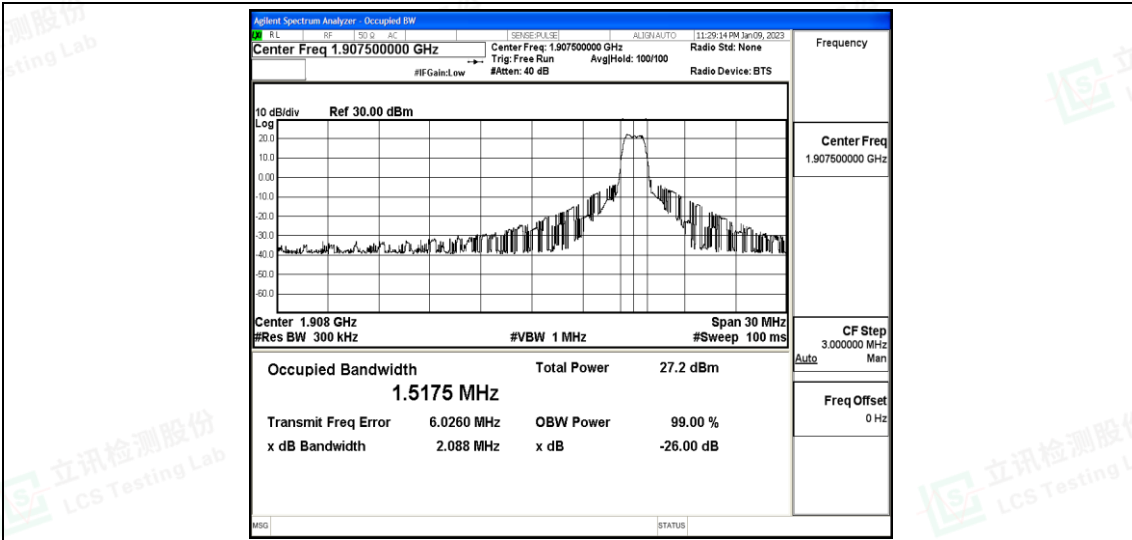


Band25-15MHz-QPSK-26115-6-0-Low-1.5489-3.699-PASS

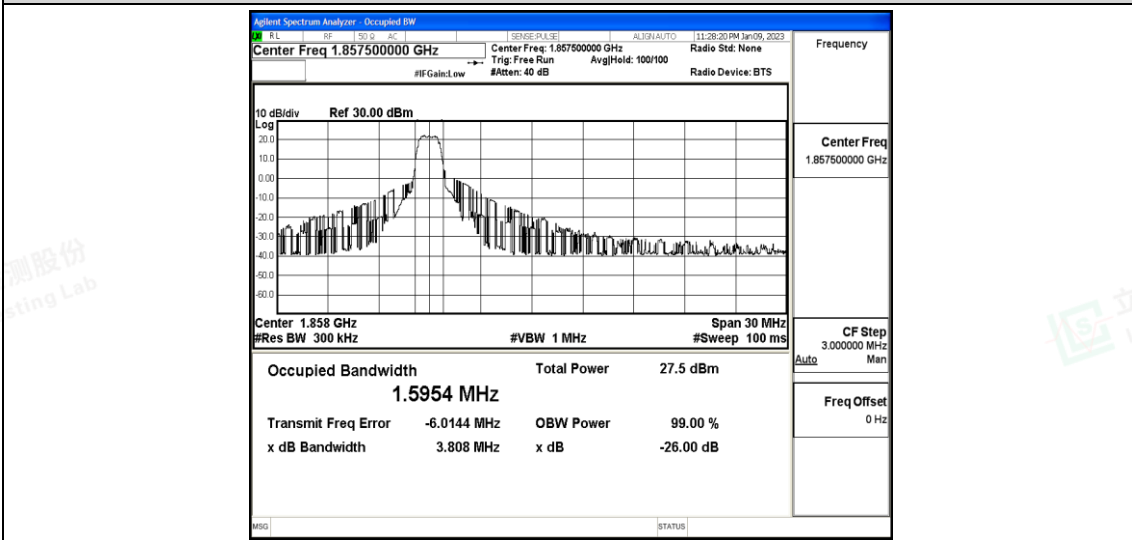


Band25-15MHz-QPSK-26365-6-0-Low-1.5941-2.639-PASS

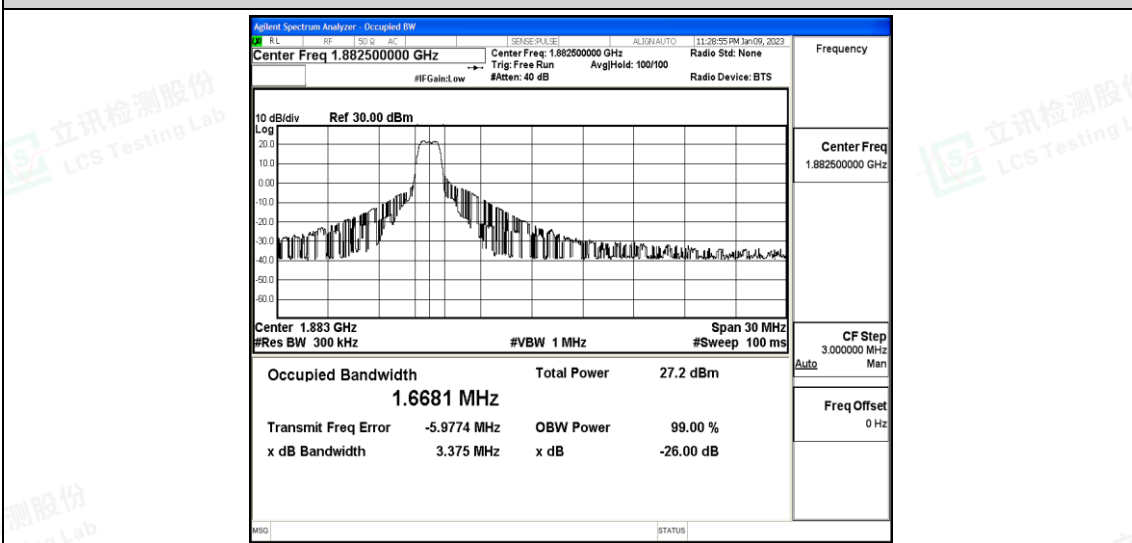




Band25-15MHz-QPSK-26615-6-0-High-1.5175-2.088-PASS

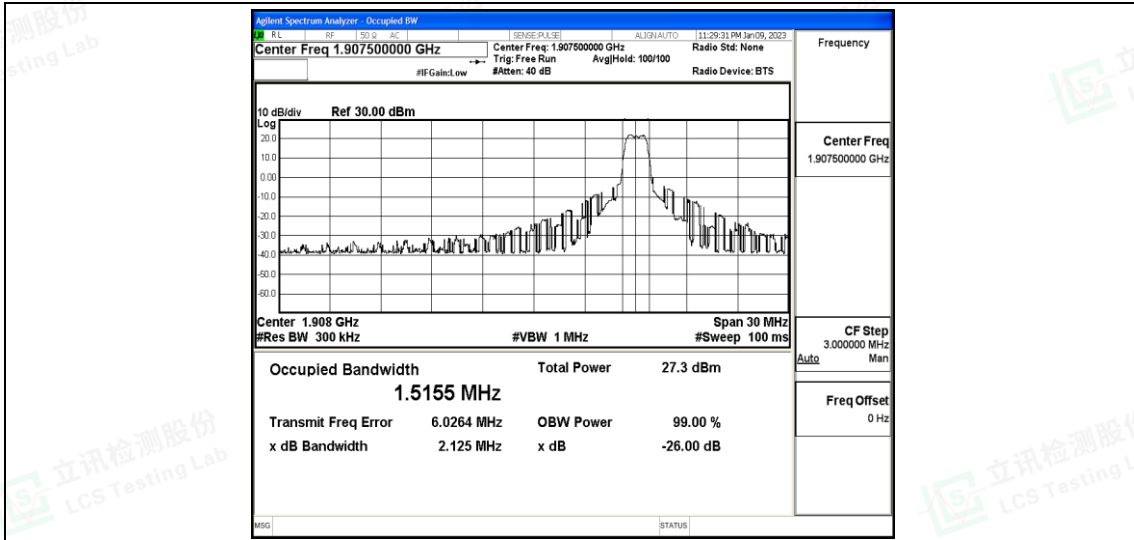


Band25-15MHz-16QAM-26115-6-0-Low-1.5954-3.808-PASS

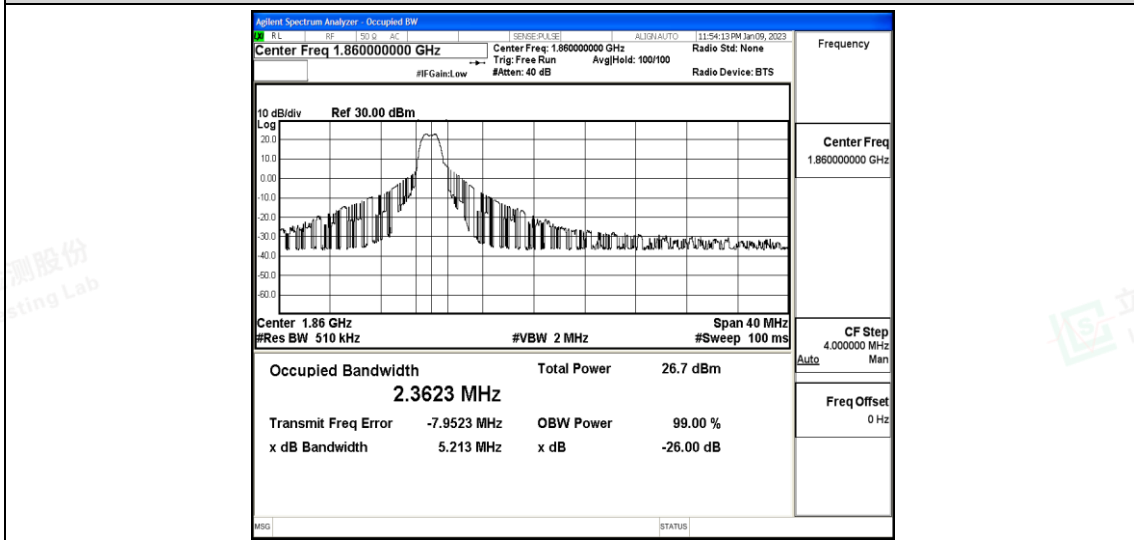


Band25-15MHz-16QAM-26365-6-0-Low-1.6681-3.375-PASS

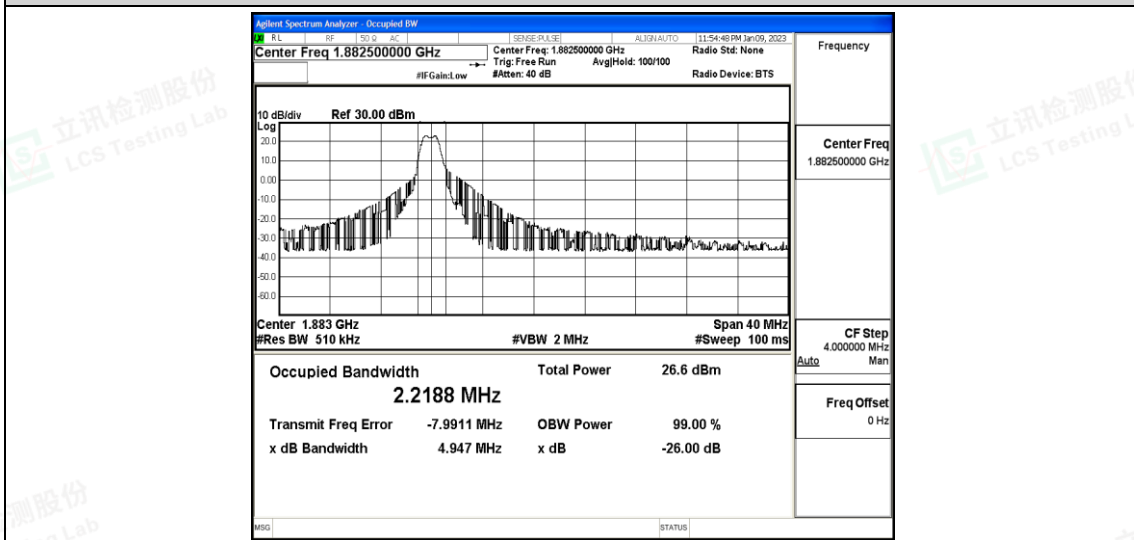




Band25-15MHz-16QAM-26615-6-0-High-1.5155-2.125-PASS

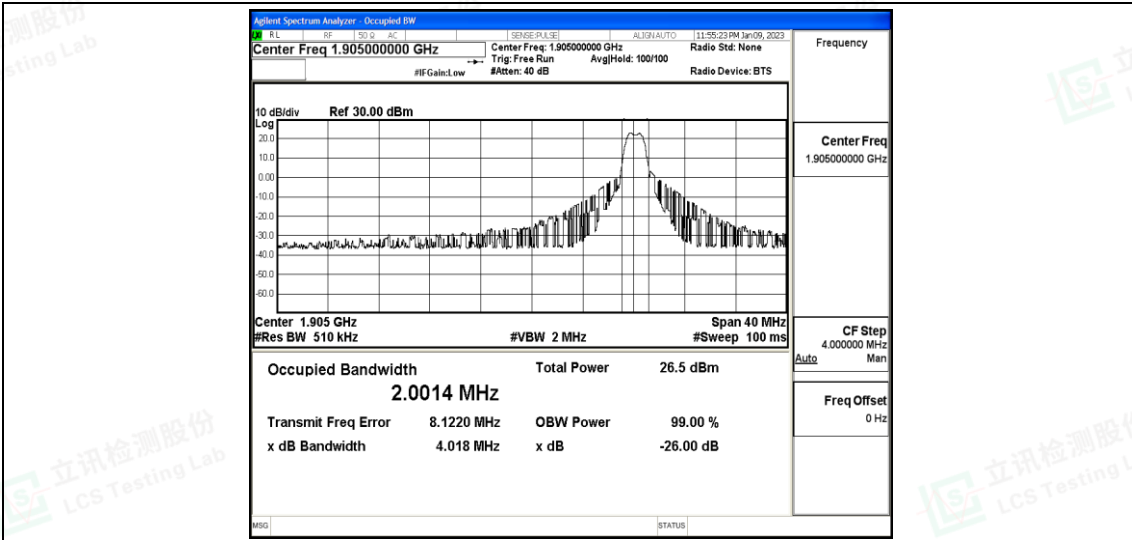


Band25-20MHz-QPSK-26140-6-0-Low-2.3623-5.213-PASS

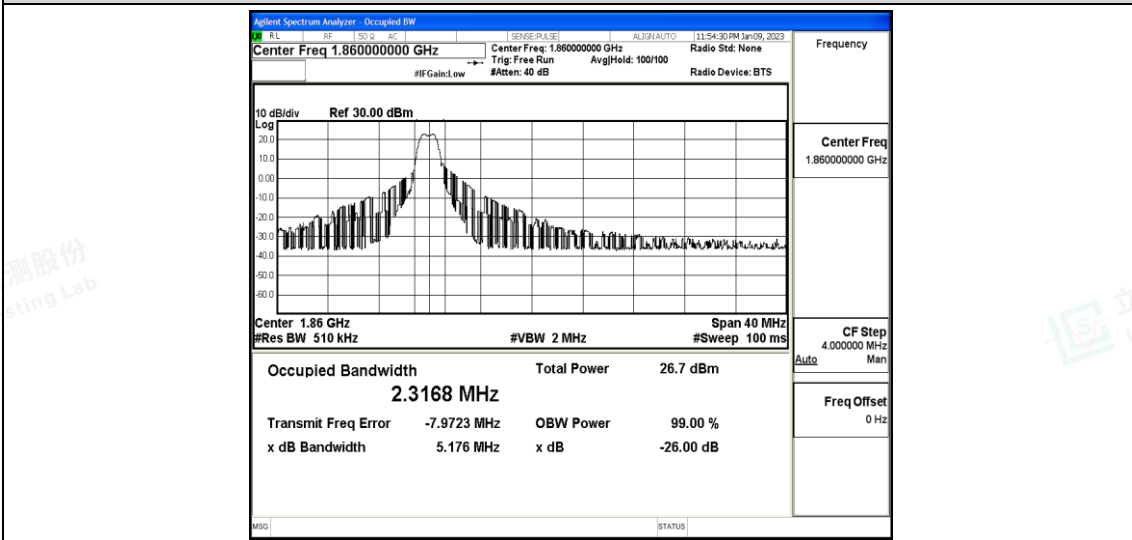


Band25-20MHz-QPSK-26365-6-0-Low-2.2188-4.947-PASS

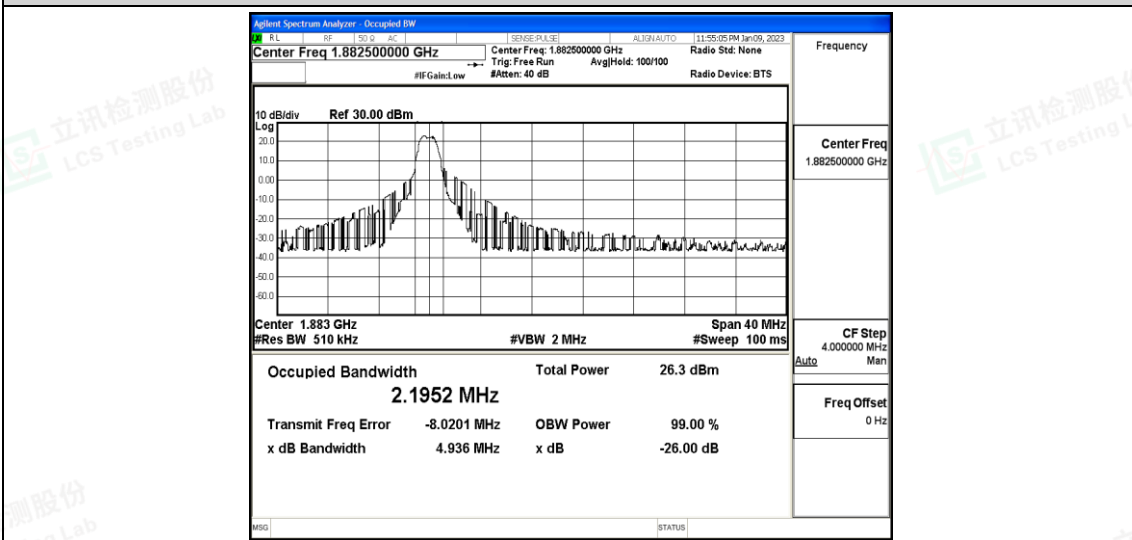




Band25-20MHz-QPSK-26590-6-0-High-2.0014-4.018-PASS

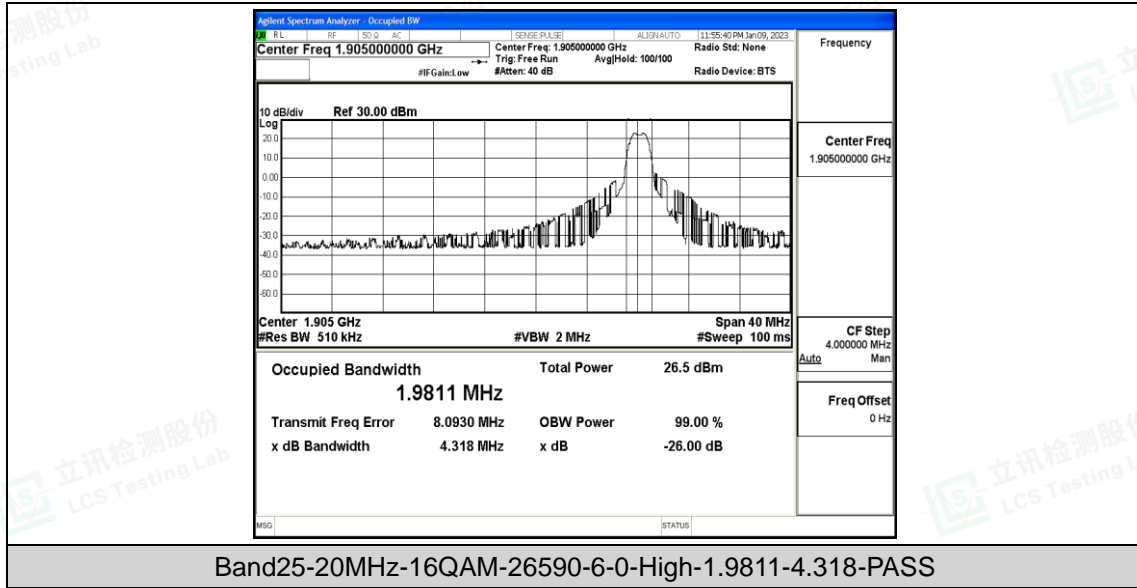


Band25-20MHz-16QAM-26140-6-0-Low-2.3168-5.176-PASS



Band25-20MHz-16QAM-26365-6-0-Low-2.1952-4.936-PASS







D.4 Band Edge

Test Result

Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band25	1.4MHz	26047	QPSK	6	0	Low	-34.20	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	-32.93	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	-34.07	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	-31.98	PASS
Band25	3MHz	26055	QPSK	6	0	Low	-35.64	PASS
Band25	3MHz	26675	QPSK	6	0	High	-34.28	PASS
Band25	3MHz	26055	16QAM	6	0	Low	-34.82	PASS
Band25	3MHz	26675	16QAM	6	0	High	-32.77	PASS
Band25	5MHz	26065	QPSK	6	0	Low	-31.74	PASS
Band25	5MHz	26665	QPSK	6	0	High	-31.05	PASS
Band25	5MHz	26065	16QAM	6	0	Low	-31.33	PASS
Band25	5MHz	26665	16QAM	6	0	High	-31.98	PASS
Band25	10MHz	26090	QPSK	6	0	Low	-28.62	PASS
Band25	10MHz	26640	QPSK	6	0	High	-29.59	PASS
Band25	10MHz	26090	16QAM	6	0	Low	-29.55	PASS
Band25	10MHz	26640	16QAM	6	0	High	-29.88	PASS
Band25	15MHz	26115	QPSK	6	0	Low	-26.34	PASS
Band25	15MHz	26615	QPSK	6	0	High	-25.78	PASS
Band25	15MHz	26115	16QAM	6	0	Low	-24.68	PASS
Band25	15MHz	26615	16QAM	6	0	High	-25.12	PASS
Band25	20MHz	26140	QPSK	6	0	Low	-32.81	PASS
Band25	20MHz	26590	QPSK	6	0	High	-28.42	PASS
Band25	20MHz	26140	16QAM	6	0	Low	-27.86	PASS
Band25	20MHz	26590	16QAM	6	0	High	-30.16	PASS



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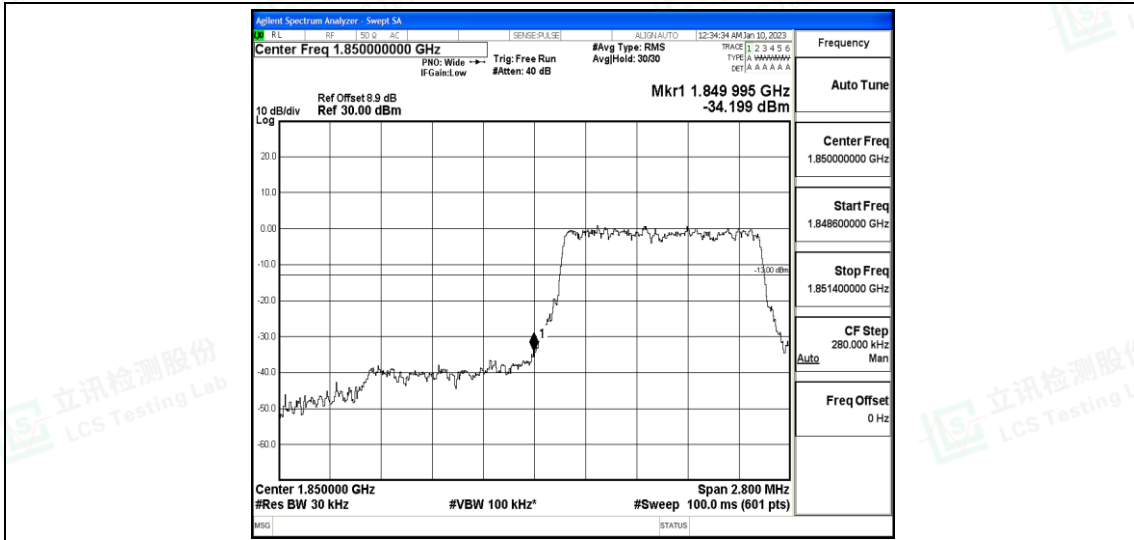
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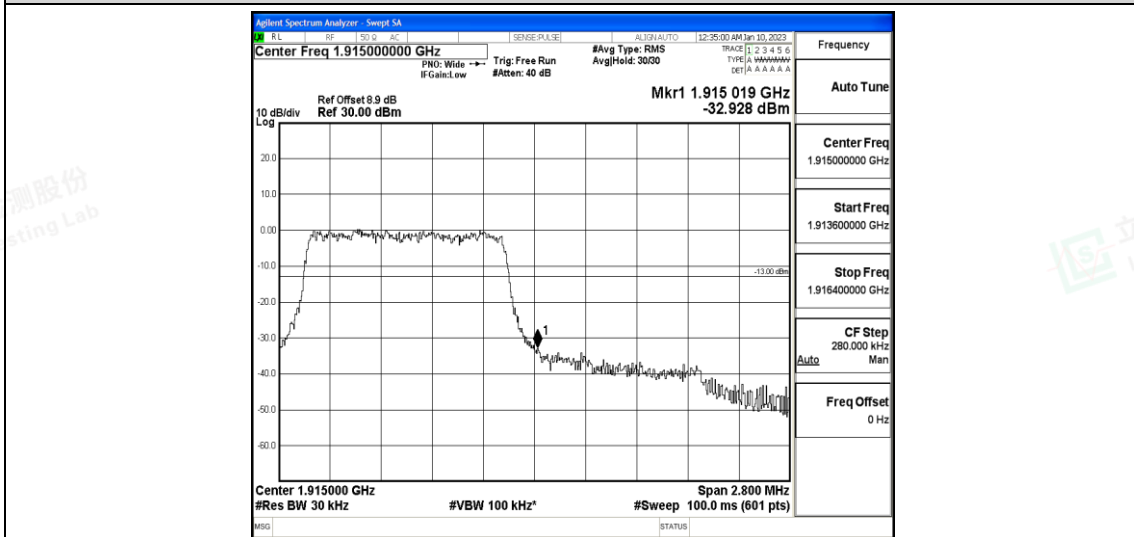
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Test Graphs



Band25-1.4MHz-QPSK-26047-6-0-Low--34.20-PASS



Band25-1.4MHz-QPSK-26683-6-0-High--32.93-PASS

