



Appendix K: Test Data for E-UTRA Band 38

Product Name: 4G Smart Phone

Test Model: L66F

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





K.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	24.33	PASS
Band38	5MHz	16QAM	37775	1RB#0	23.87	PASS
Band38	5MHz	QPSK	37775	1RB#12	24.36	PASS
Band38	5MHz	16QAM	37775	1RB#12	23.92	PASS
Band38	5MHz	QPSK	37775	1RB#24	24.30	PASS
Band38	5MHz	16QAM	37775	1RB#24	23.85	PASS
Band38	5MHz	QPSK	37775	12RB#0	23.47	PASS
Band38	5MHz	16QAM	37775	12RB#0	22.48	PASS
Band38	5MHz	QPSK	37775	12RB#6	23.35	PASS
Band38	5MHz	16QAM	37775	12RB#6	22.50	PASS
Band38	5MHz	QPSK	37775	12RB#13	23.35	PASS
Band38	5MHz	16QAM	37775	12RB#13	22.47	PASS
Band38	5MHz	QPSK	37775	25RB#0	23.39	PASS
Band38	5MHz	16QAM	37775	25RB#0	22.49	PASS
Band38	5MHz	QPSK	38000	1RB#0	24.14	PASS
Band38	5MHz	16QAM	38000	1RB#0	23.85	PASS
Band38	5MHz	QPSK	38000	1RB#12	24.19	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.77	PASS
Band38	5MHz	QPSK	38000	1RB#24	24.13	PASS
Band38	5MHz	16QAM	38000	1RB#24	23.73	PASS
Band38	5MHz	QPSK	38000	12RB#0	23.25	PASS
Band38	5MHz	16QAM	38000	12RB#0	22.16	PASS
Band38	5MHz	QPSK	38000	12RB#6	23.12	PASS
Band38	5MHz	16QAM	38000	12RB#6	22.18	PASS
Band38	5MHz	QPSK	38000	12RB#13	23.09	PASS
Band38	5MHz	16QAM	38000	12RB#13	22.14	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.13	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.19	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.91	PASS
Band38	5MHz	16QAM	38225	1RB#0	23.40	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.01	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.35	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.88	PASS
Band38	5MHz	16QAM	38225	1RB#24	23.32	PASS
Band38	5MHz	QPSK	38225	12RB#0	23.10	PASS
Band38	5MHz	16QAM	38225	12RB#0	22.19	PASS



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Band38	5MHz	QPSK	38225	12RB#6	23.12	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.99	PASS
Band38	5MHz	QPSK	38225	12RB#13	23.02	PASS
Band38	5MHz	16QAM	38225	12RB#13	22.08	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.88	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.18	PASS
Band38	10MHz	QPSK	37800	1RB#0	24.44	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.60	PASS
Band38	10MHz	QPSK	37800	1RB#24	24.40	PASS
Band38	10MHz	16QAM	37800	1RB#24	23.55	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.43	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.50	PASS
Band38	10MHz	QPSK	37800	25RB#0	23.32	PASS
Band38	10MHz	16QAM	37800	25RB#0	22.49	PASS
Band38	10MHz	QPSK	37800	25RB#12	23.33	PASS
Band38	10MHz	16QAM	37800	25RB#12	22.49	PASS
Band38	10MHz	QPSK	37800	25RB#25	23.19	PASS
Band38	10MHz	16QAM	37800	25RB#25	22.31	PASS
Band38	10MHz	QPSK	37800	50RB#0	23.27	PASS
Band38	10MHz	16QAM	37800	50RB#0	22.37	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.08	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.04	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.07	PASS
Band38	10MHz	16QAM	38000	1RB#24	23.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.05	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.95	PASS
Band38	10MHz	QPSK	38000	25RB#0	23.05	PASS
Band38	10MHz	16QAM	38000	25RB#0	22.44	PASS
Band38	10MHz	QPSK	38000	25RB#12	23.07	PASS
Band38	10MHz	16QAM	38000	25RB#12	22.36	PASS
Band38	10MHz	QPSK	38000	25RB#25	23.05	PASS
Band38	10MHz	16QAM	38000	25RB#25	22.36	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.97	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.10	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.12	PASS
Band38	10MHz	16QAM	38200	1RB#0	23.54	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.97	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.03	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.90	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.95	PASS
Band38	10MHz	QPSK	38200	25RB#0	23.03	PASS
Band38	10MHz	16QAM	38200	25RB#0	22.19	PASS



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Band38	10MHz	QPSK	38200	25RB#12	23.04	PASS
Band38	10MHz	16QAM	38200	25RB#12	22.19	PASS
Band38	10MHz	QPSK	38200	25RB#25	23.04	PASS
Band38	10MHz	16QAM	38200	25RB#25	22.13	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.95	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.19	PASS
Band38	15MHz	QPSK	37825	1RB#0	24.44	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.60	PASS
Band38	15MHz	QPSK	37825	1RB#38	24.43	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.56	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.34	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.50	PASS
Band38	15MHz	QPSK	37825	38RB#0	23.21	PASS
Band38	15MHz	16QAM	37825	38RB#0	23.21	PASS
Band38	15MHz	QPSK	37825	38RB#18	23.21	PASS
Band38	15MHz	16QAM	37825	38RB#18	23.21	PASS
Band38	15MHz	QPSK	37825	38RB#37	23.21	PASS
Band38	15MHz	16QAM	37825	38RB#37	23.21	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.21	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.36	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.37	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.64	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.17	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.69	PASS
Band38	15MHz	QPSK	38000	1RB#74	24.22	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.16	PASS
Band38	15MHz	QPSK	38000	38RB#0	23.10	PASS
Band38	15MHz	16QAM	38000	38RB#0	23.10	PASS
Band38	15MHz	QPSK	38000	38RB#18	23.10	PASS
Band38	15MHz	16QAM	38000	38RB#18	23.10	PASS
Band38	15MHz	QPSK	38000	38RB#37	23.10	PASS
Band38	15MHz	16QAM	38000	38RB#37	23.09	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.09	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.25	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.10	PASS
Band38	15MHz	16QAM	38175	1RB#0	23.60	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.06	PASS
Band38	15MHz	16QAM	38175	1RB#38	23.50	PASS
Band38	15MHz	QPSK	38175	1RB#74	24.01	PASS
Band38	15MHz	16QAM	38175	1RB#74	23.55	PASS
Band38	15MHz	QPSK	38175	38RB#0	22.95	PASS
Band38	15MHz	16QAM	38175	38RB#0	22.95	PASS



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Band38	15MHz	QPSK	38175	38RB#18	22.95	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.94	PASS
Band38	15MHz	QPSK	38175	38RB#37	22.94	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.94	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.93	PASS
Band38	15MHz	16QAM	38175	75RB#0	22.16	PASS
Band38	20MHz	QPSK	37850	1RB#0	24.25	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.52	PASS
Band38	20MHz	QPSK	37850	1RB#49	24.05	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.53	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.96	PASS
Band38	20MHz	16QAM	37850	1RB#99	23.37	PASS
Band38	20MHz	QPSK	37850	50RB#0	23.32	PASS
Band38	20MHz	16QAM	37850	50RB#0	22.63	PASS
Band38	20MHz	QPSK	37850	50RB#25	23.32	PASS
Band38	20MHz	16QAM	37850	50RB#25	22.64	PASS
Band38	20MHz	QPSK	37850	50RB#50	23.21	PASS
Band38	20MHz	16QAM	37850	50RB#50	22.42	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.26	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.39	PASS
Band38	20MHz	QPSK	38000	1RB#0	24.29	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.57	PASS
Band38	20MHz	QPSK	38000	1RB#49	24.18	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.42	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.19	PASS
Band38	20MHz	16QAM	38000	1RB#99	23.40	PASS
Band38	20MHz	QPSK	38000	50RB#0	23.07	PASS
Band38	20MHz	16QAM	38000	50RB#0	22.25	PASS
Band38	20MHz	QPSK	38000	50RB#25	23.09	PASS
Band38	20MHz	16QAM	38000	50RB#25	22.26	PASS
Band38	20MHz	QPSK	38000	50RB#50	23.08	PASS
Band38	20MHz	16QAM	38000	50RB#50	22.24	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.97	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.27	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.83	PASS
Band38	20MHz	16QAM	38150	1RB#0	23.63	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.89	PASS
Band38	20MHz	16QAM	38150	1RB#49	23.58	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.85	PASS
Band38	20MHz	16QAM	38150	1RB#99	23.49	PASS
Band38	20MHz	QPSK	38150	50RB#0	22.99	PASS
Band38	20MHz	16QAM	38150	50RB#0	22.26	PASS





Band38	20MHz	QPSK	38150	50RB#25	23.01	PASS
Band38	20MHz	16QAM	38150	50RB#25	22.26	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.83	PASS
Band38	20MHz	16QAM	38150	50RB#50	22.13	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.91	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.14	PASS





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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	8.12	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	9.07	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.06	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.81	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.16	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	8.55	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.16	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.82	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.43	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.77	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.23	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.84	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	7.94	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	9.07	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.35	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.86	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.21	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	9.06	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.43	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.97	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.36	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	9.15	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.21	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	10.15	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.01	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	9.10	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.44	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	10.07	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.18	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	9.02	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.53	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	10.10	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.31	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.61	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.60	13	PASS





Band38	15MHz	16QAM	38175	75RB#0	10.13	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	8.13	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	8.96	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	9.21	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	10.14	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	7.27	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	9.20	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.19	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	10.02	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.12	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	9.26	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.16	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	10.10	13	PASS





Test Graphs



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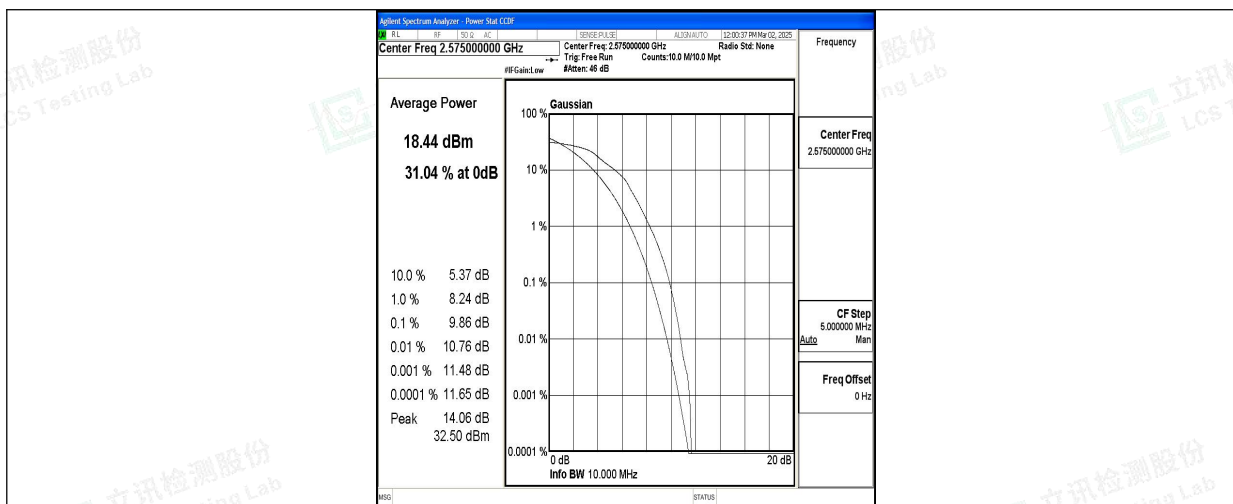


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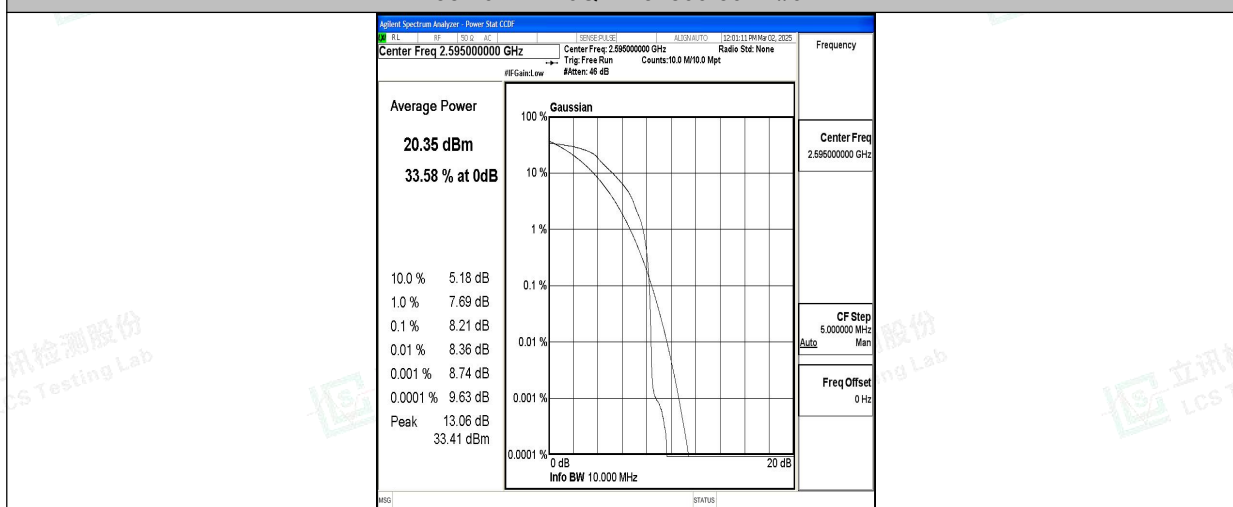
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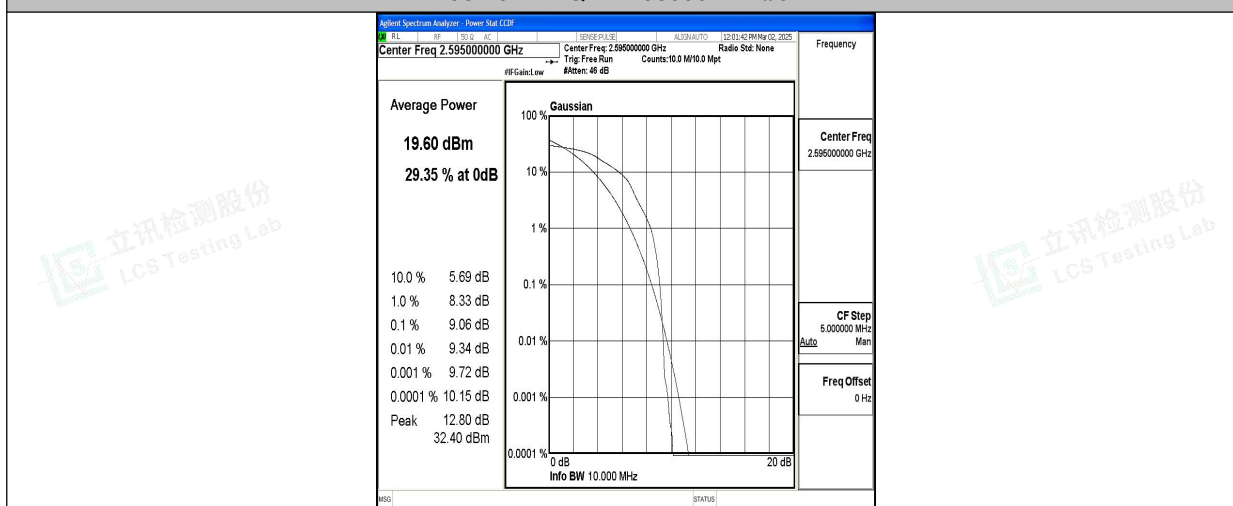
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Band38-10MHz-16QAM-37800-50RB#0-PASS



Band38-10MHz-QPSK-38000-1RB#0-PASS



Band38-10MHz-16QAM-38000-1RB#0-PASS



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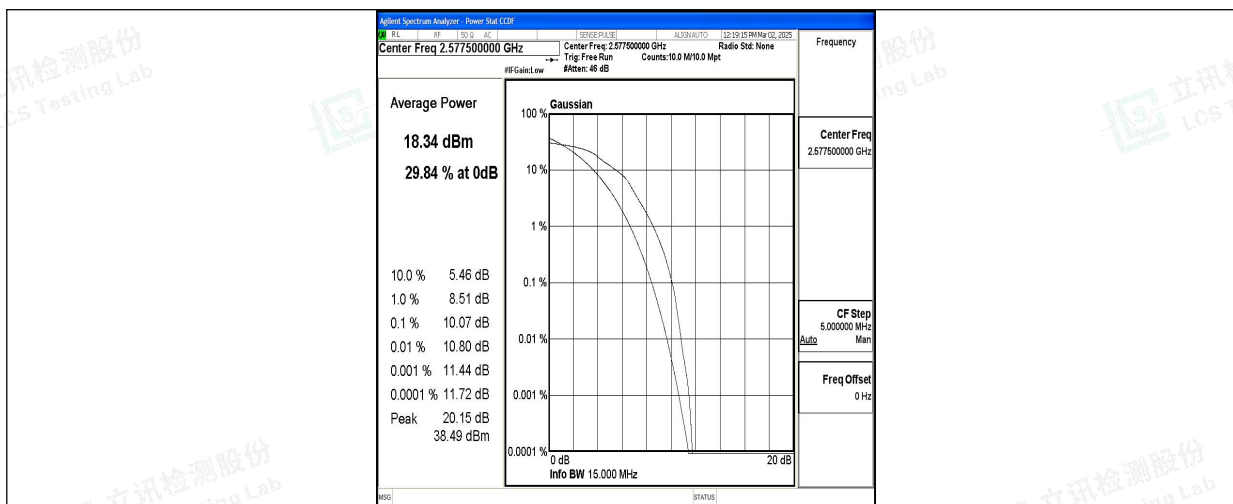


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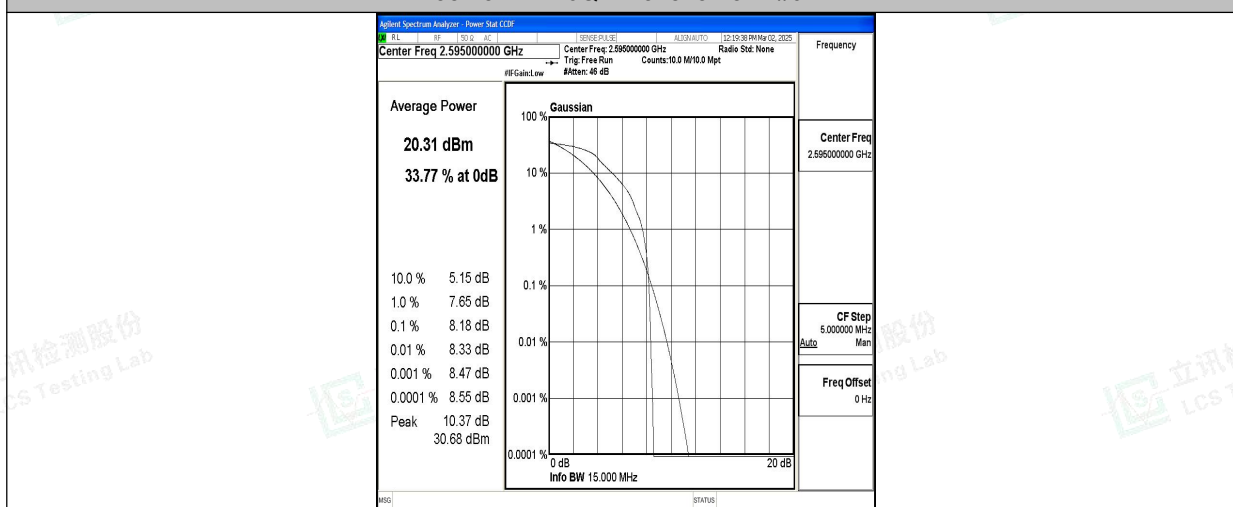
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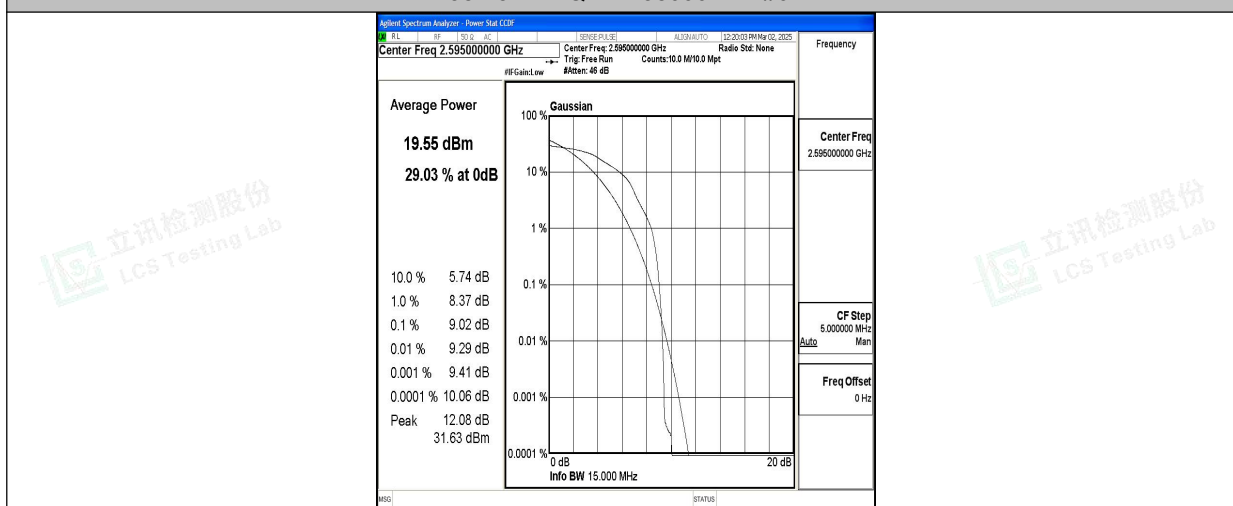
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Band38-15MHz-QPSK-38000-1RB#0-PASS



Band38-15MHz-16QAM-38000-1RB#0-PASS

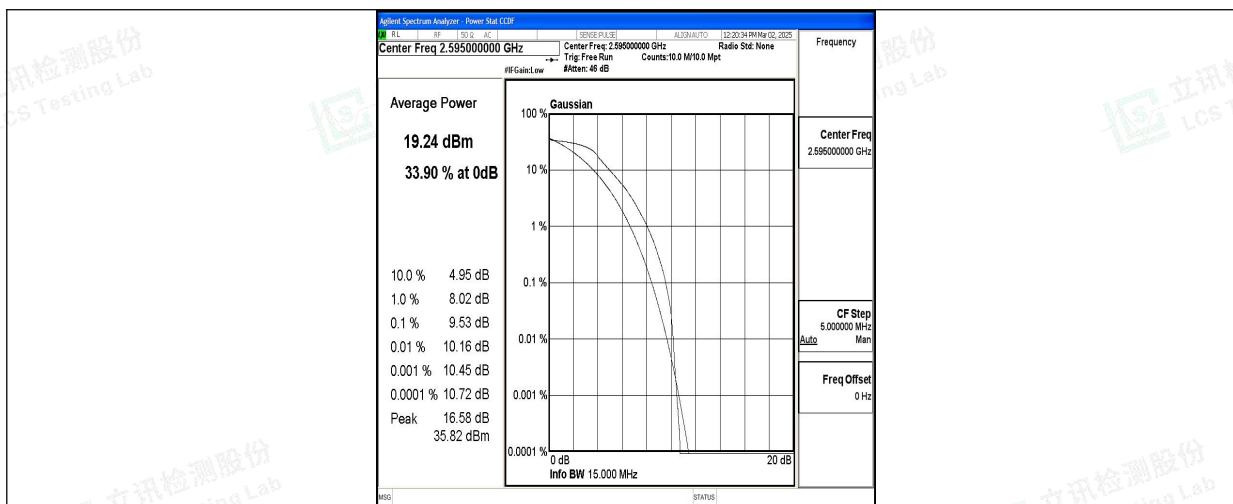


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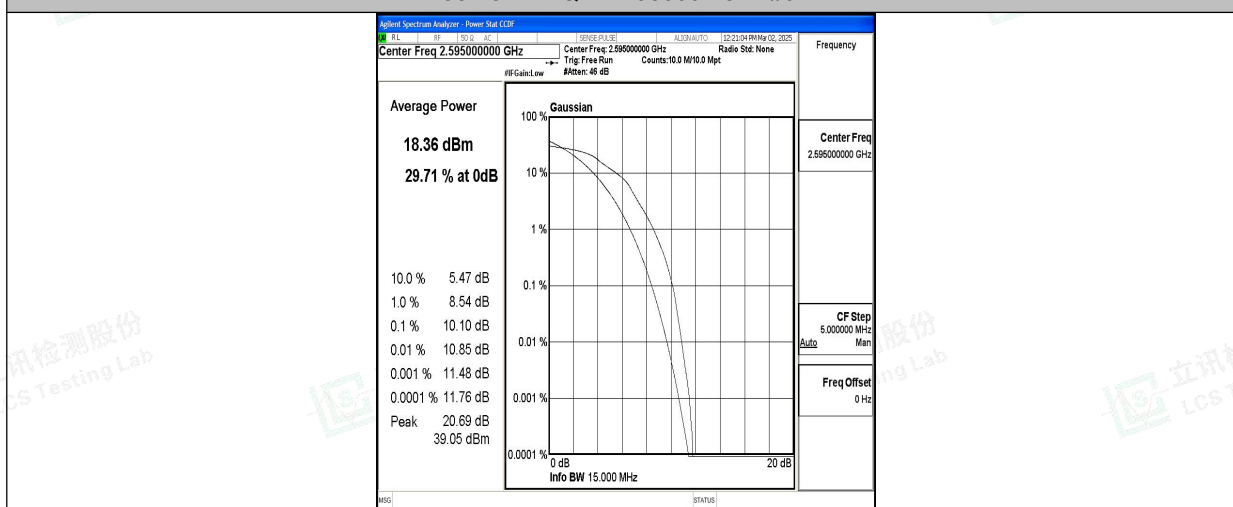
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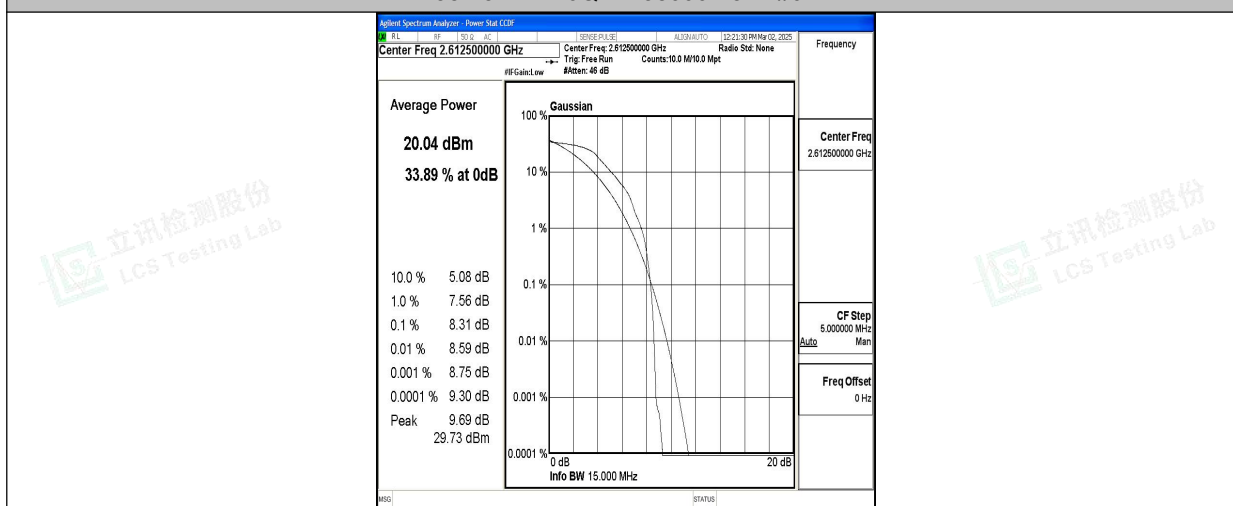
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Band38-15MHz-QPSK-38000-75RB#0-PASS



Band38-15MHz-16QAM-38000-75RB#0-PASS



Band38-15MHz-QPSK-38175-1RB#0-PASS



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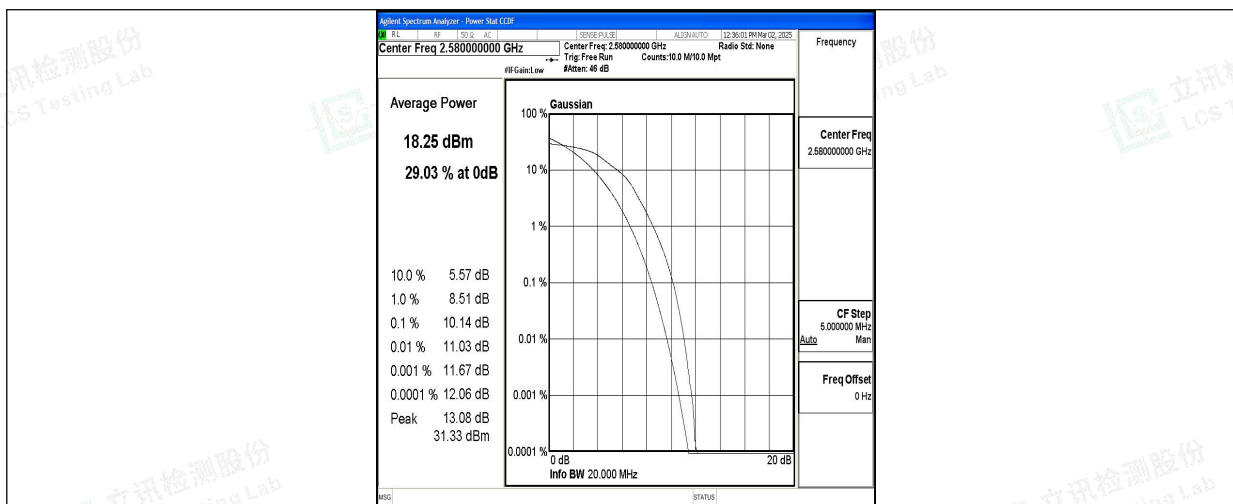


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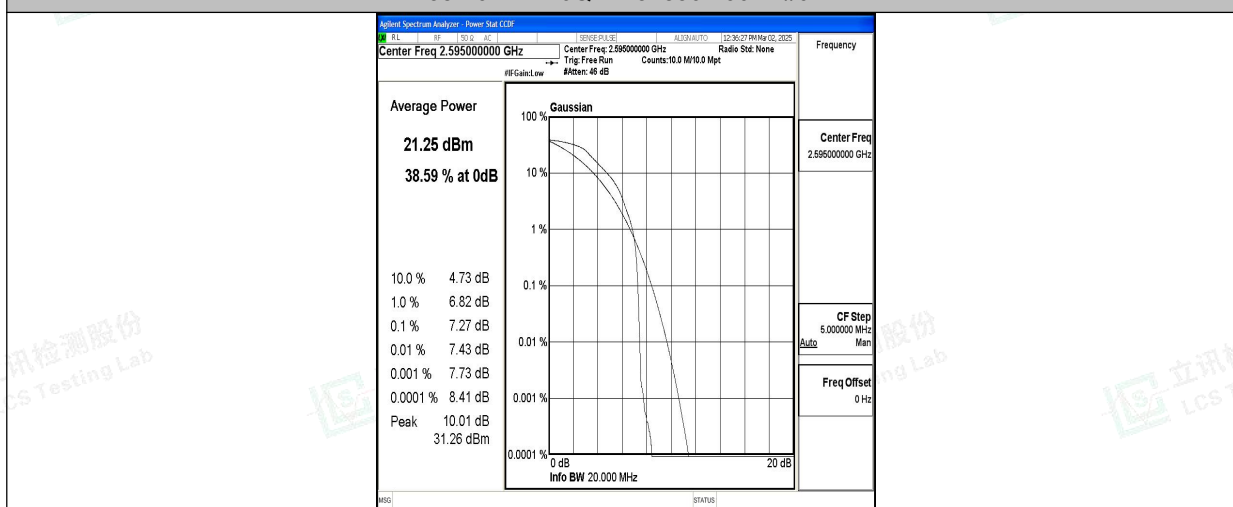
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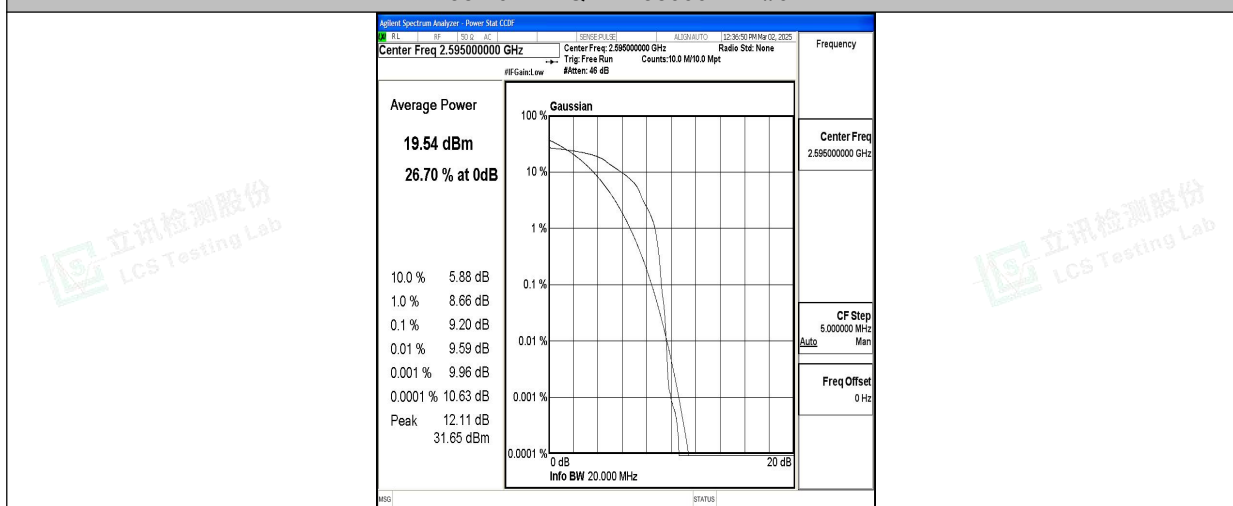
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Band38-20MHz-16QAM-37850-100RB#0-PASS



Band38-20MHz-QPSK-38000-1RB#0-PASS



Band38-20MHz-16QAM-38000-1RB#0-PASS



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K.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5208	5.258	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5233	5.201	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5082	5.187	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5119	5.136	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4958	4.955	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4889	4.933	PASS
Band38	10MHz	QPSK	37800	50RB#0	9.0029	9.814	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9805	9.884	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.0039	10.62	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9986	9.907	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0136	10.61	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9946	9.896	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.028	19.63	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.943	19.61	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.975	19.33	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.526	14.77	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.512	14.95	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.458	15.07	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.430	15.71	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.530	14.99	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.937	19.55	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.900	19.63	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.910	20.18	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.558	16.52	PASS





Test Graphs



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