



Appendix J: Test Data for E-UTRA Band 38

Product Name: Smart POS

Test Model: WIZARPOS Q3min

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Paddi Chen





J.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	21.76	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.58	PASS
Band38	5MHz	QPSK	37775	1RB#12	21.71	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.76	PASS
Band38	5MHz	QPSK	37775	1RB#24	21.85	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.56	PASS
Band38	5MHz	QPSK	37775	12RB#0	20.75	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.02	PASS
Band38	5MHz	QPSK	37775	12RB#6	20.76	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.01	PASS
Band38	5MHz	QPSK	37775	12RB#13	20.79	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.08	PASS
Band38	5MHz	QPSK	37775	25RB#0	20.74	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.23	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.33	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.31	PASS
Band38	5MHz	QPSK	38000	1RB#12	21.29	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.28	PASS
Band38	5MHz	QPSK	38000	1RB#24	21.32	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.20	PASS
Band38	5MHz	QPSK	38000	12RB#0	20.54	PASS
Band38	5MHz	16QAM	38000	12RB#0	19.76	PASS
Band38	5MHz	QPSK	38000	12RB#6	20.55	PASS
Band38	5MHz	16QAM	38000	12RB#6	19.76	PASS
Band38	5MHz	QPSK	38000	12RB#13	20.48	PASS
Band38	5MHz	16QAM	38000	12RB#13	19.69	PASS
Band38	5MHz	QPSK	38000	25RB#0	20.52	PASS
Band38	5MHz	16QAM	38000	25RB#0	19.89	PASS
Band38	5MHz	QPSK	38225	1RB#0	21.16	PASS
Band38	5MHz	16QAM	38225	1RB#0	20.81	PASS
Band38	5MHz	QPSK	38225	1RB#12	21.07	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.01	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.62	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.85	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.63	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.79	PASS





Band38	10MHz	16QAM	37800	1RB#49	22.57	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.51	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.99	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.67	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.99	PASS
Band38	10MHz	QPSK	37800	25RB#25	21.58	PASS
Band38	10MHz	16QAM	37800	25RB#25	20.96	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.59	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.93	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.48	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.22	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.40	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.18	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.39	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.11	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.72	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.16	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.58	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.16	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.62	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.09	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.66	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.87	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.42	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.22	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.28	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.11	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.33	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.17	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.20	PASS
Band38	10MHz	16QAM	38200	25RB#0	20.59	PASS
Band38	10MHz	QPSK	38200	25RB#12	21.21	PASS
Band38	10MHz	16QAM	38200	25RB#12	20.59	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.17	PASS
Band38	10MHz	16QAM	38200	25RB#25	20.47	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.30	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.60	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.75	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.71	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.82	PASS
Band38	5MHz	QPSK	38225	1RB#24	21.08	PASS
Band38	5MHz	16QAM	38225	1RB#24	20.67	PASS





Band38	5MHz	QPSK	38225	12RB#0	19.98	PASS
Band38	5MHz	16QAM	38225	12RB#0	19.39	PASS
Band38	5MHz	QPSK	38225	12RB#6	19.99	PASS
Band38	5MHz	16QAM	38225	12RB#6	19.39	PASS
Band38	5MHz	QPSK	38225	12RB#13	19.93	PASS
Band38	5MHz	16QAM	38225	12RB#13	19.30	PASS
Band38	5MHz	QPSK	38225	25RB#0	19.98	PASS
Band38	5MHz	16QAM	38225	25RB#0	19.39	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.96	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.61	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.76	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.59	PASS
Band38	15MHz	QPSK	37825	38RB#0	21.59	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.59	PASS
Band38	15MHz	QPSK	37825	38RB#18	21.60	PASS
Band38	15MHz	16QAM	37825	38RB#18	21.59	PASS
Band38	15MHz	QPSK	37825	38RB#37	21.59	PASS
Band38	15MHz	16QAM	37825	38RB#37	21.59	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.59	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.01	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.78	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.60	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.11	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.08	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.97	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.39	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.59	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.46	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.46	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.46	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.45	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.46	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.45	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.89	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.54	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.32	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.37	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.19	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.33	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.15	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.27	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.28	PASS





Band38	15MHz	QPSK	38175	38RB#18	21.27	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.27	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.27	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.27	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.27	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.60	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.26	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.96	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.35	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.93	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.28	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.76	PASS
Band38	20MHz	QPSK	37850	50RB#0	21.58	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.06	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.59	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.06	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.55	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.12	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.65	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.98	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.67	PASS
Band38	20MHz	16QAM	38000	1RB#0	21.85	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.75	PASS
Band38	20MHz	16QAM	38000	1RB#49	21.85	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.54	PASS
Band38	20MHz	16QAM	38000	1RB#99	21.76	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.67	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.11	PASS
Band38	20MHz	QPSK	38000	50RB#25	21.64	PASS
Band38	20MHz	16QAM	38000	50RB#25	20.99	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.53	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.02	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.57	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.05	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.31	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.67	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.07	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.34	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.16	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.32	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.20	PASS
Band38	20MHz	16QAM	38150	50RB#0	20.69	PASS



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Scan code to check authenticity



Band38	20MHz	QPSK	38150	50RB#25	21.21	PASS
Band38	20MHz	16QAM	38150	50RB#25	20.70	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.03	PASS
Band38	20MHz	16QAM	38150	50RB#50	20.49	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.11	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.57	PASS





J.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	8.50	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	8.76	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	9.14	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	9.59	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	8.57	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	8.95	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	9.11	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	9.84	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	8.23	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	8.77	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	9.14	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	9.67	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	8.31	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	8.99	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.90	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	9.44	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	8.75	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	8.95	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	9.36	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	9.82	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	8.29	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	8.96	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.06	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.45	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	8.11	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	8.56	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	9.30	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	10.11	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	8.20	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	8.92	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	9.01	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	10.12	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	8.43	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	9.12	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	9.28	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	10.12	13	PASS



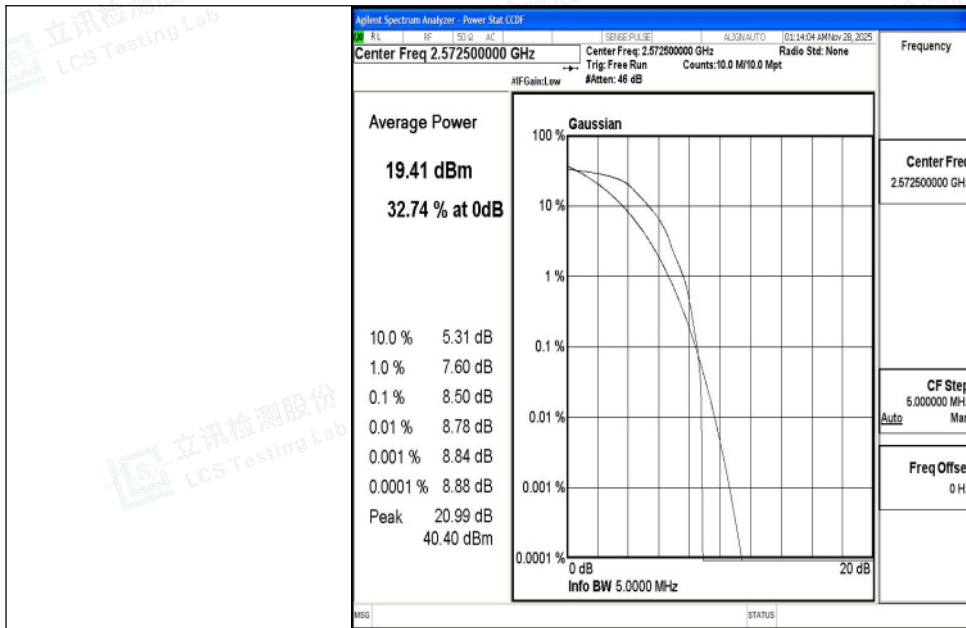


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Band38	20MHz	16QAM	37850	1RB#0	8.55	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	9.18	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	9.96	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	8.36	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	8.79	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.08	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	9.55	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	8.82	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	8.94	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.20	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	9.47	13	PASS

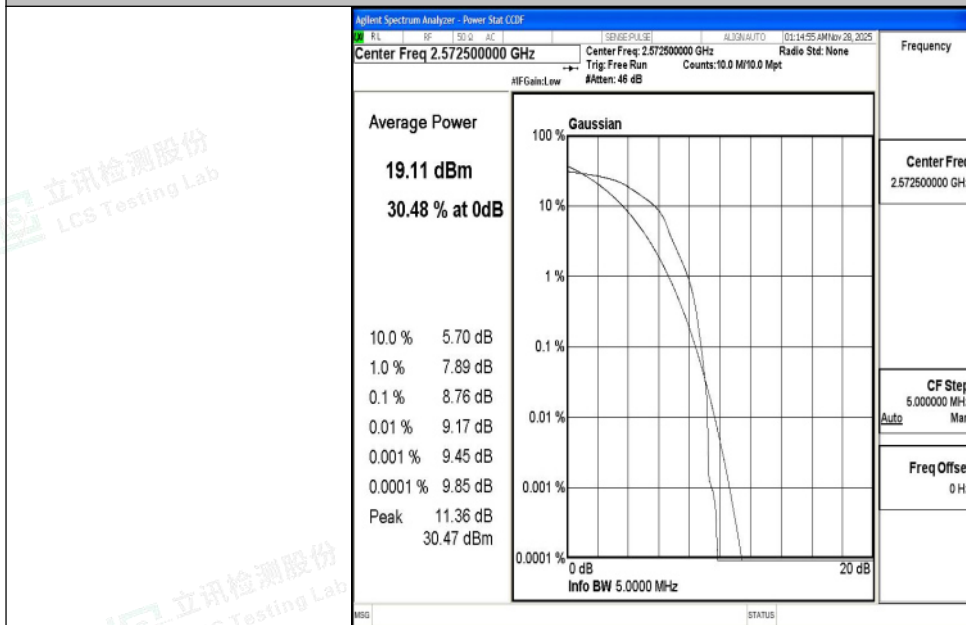




Test Graphs



Band38-5MHz-QPSK-37775-1RB#0-PASS



Band38-5MHz-16QAM-37775-1RB#0-PASS

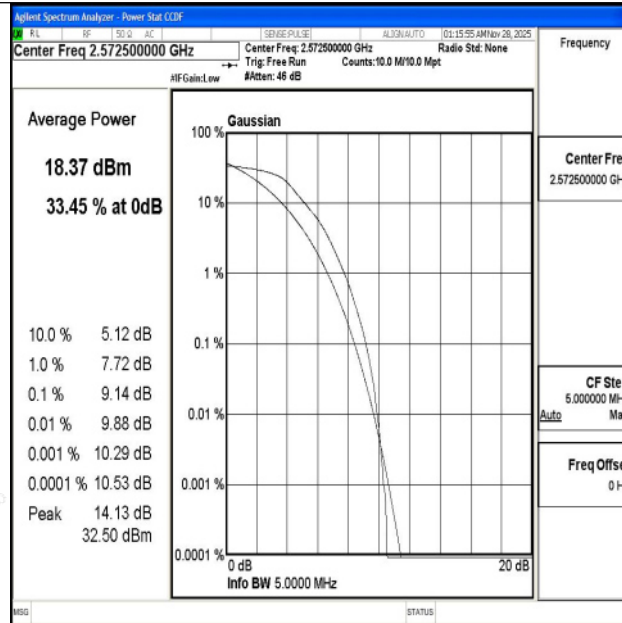


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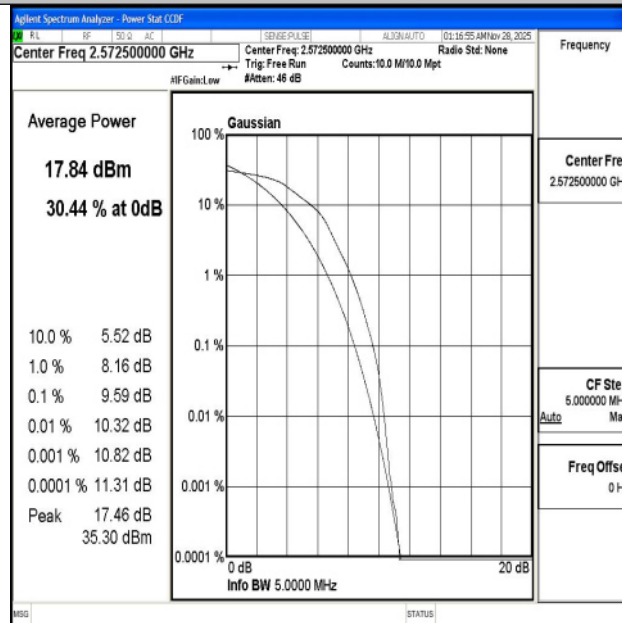
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

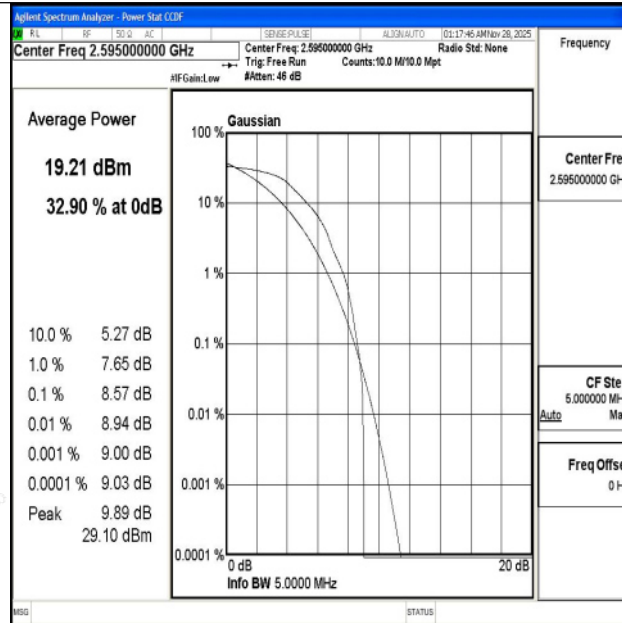


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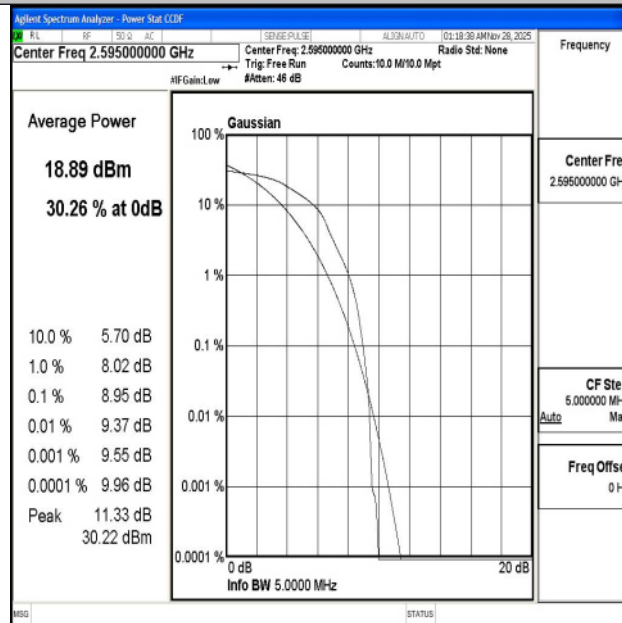


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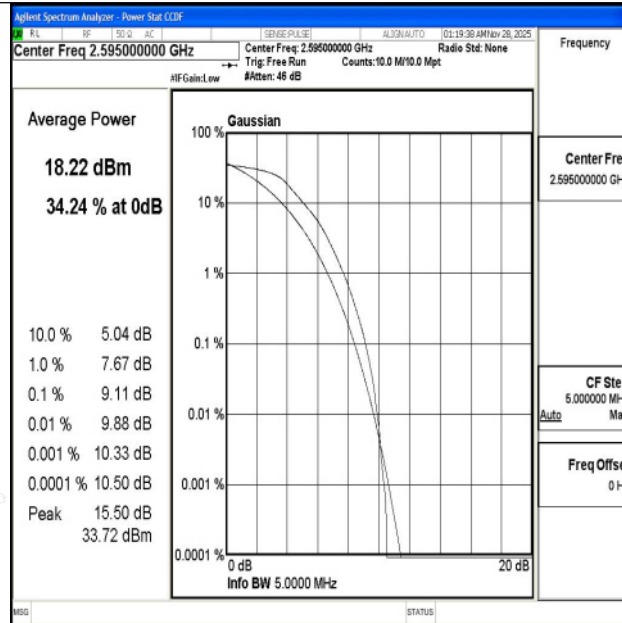


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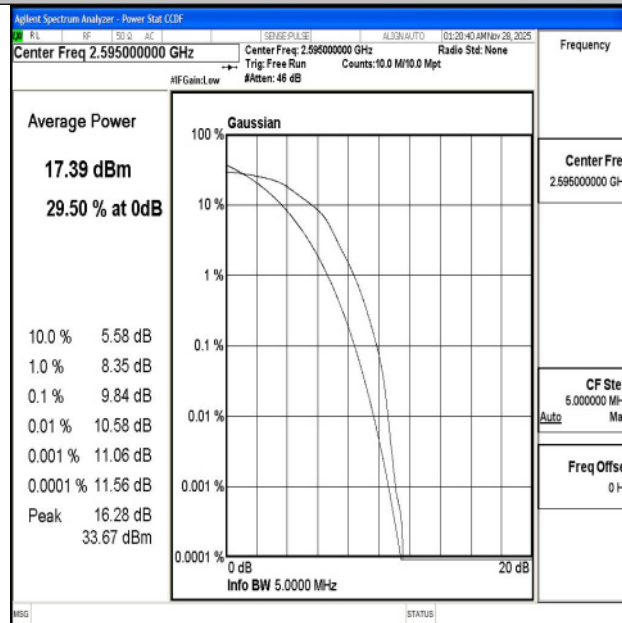


Band38-5MHz-16QAM-38000-1RB#0-PASS



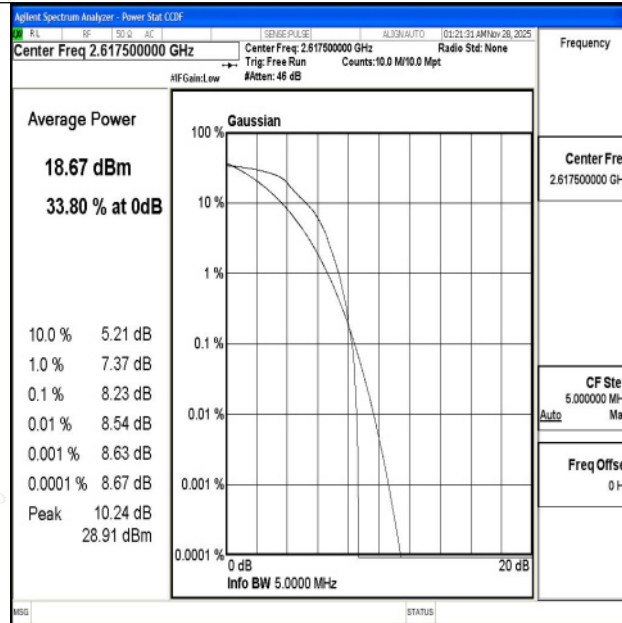


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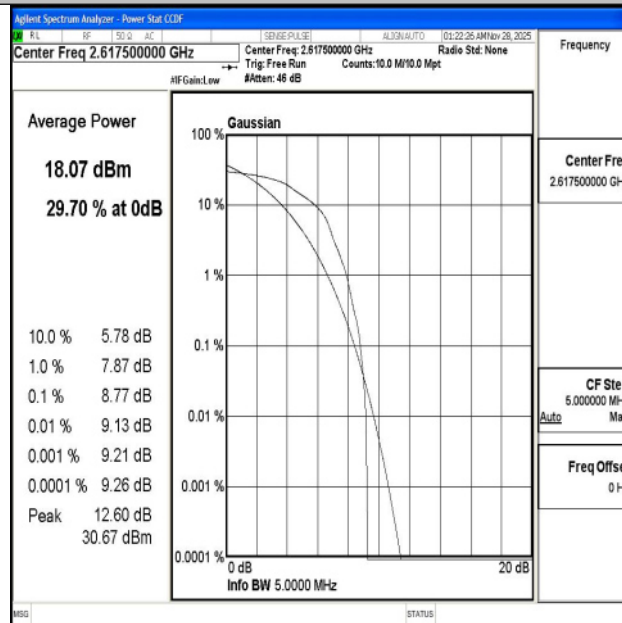


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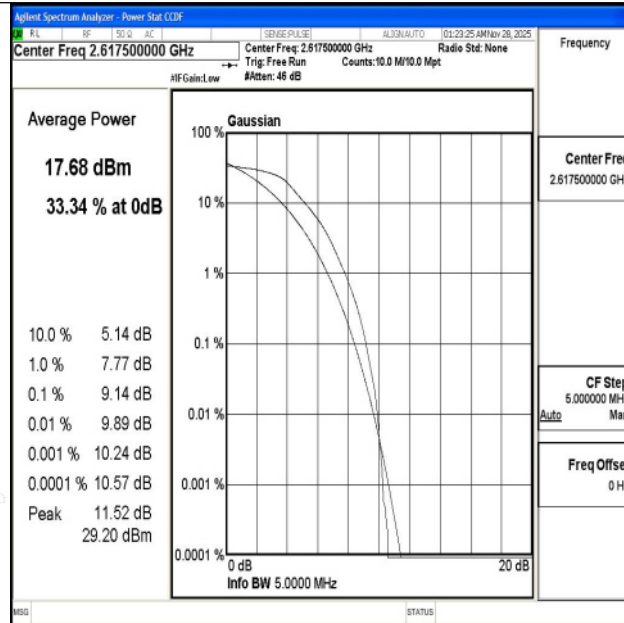


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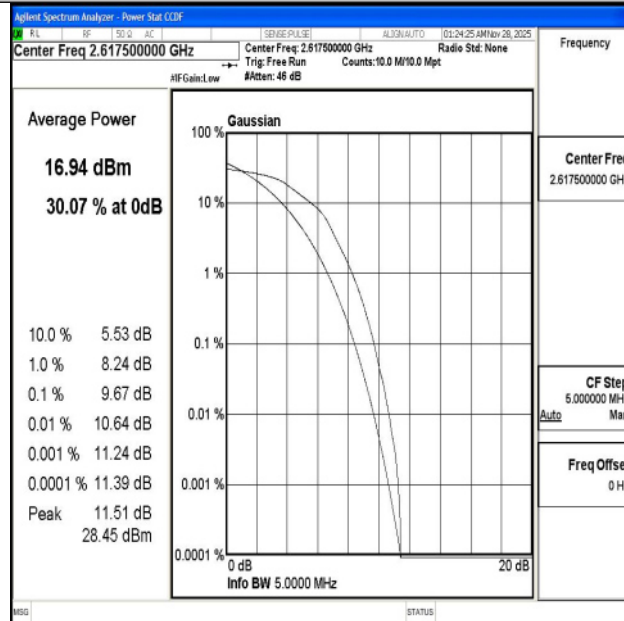


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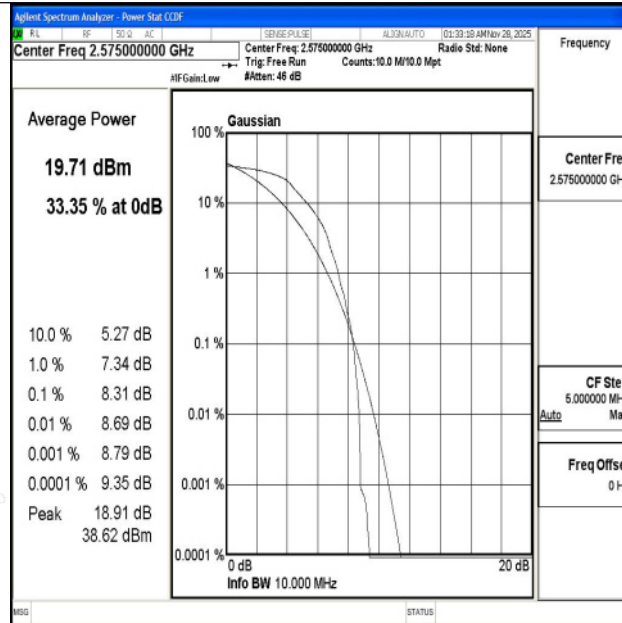


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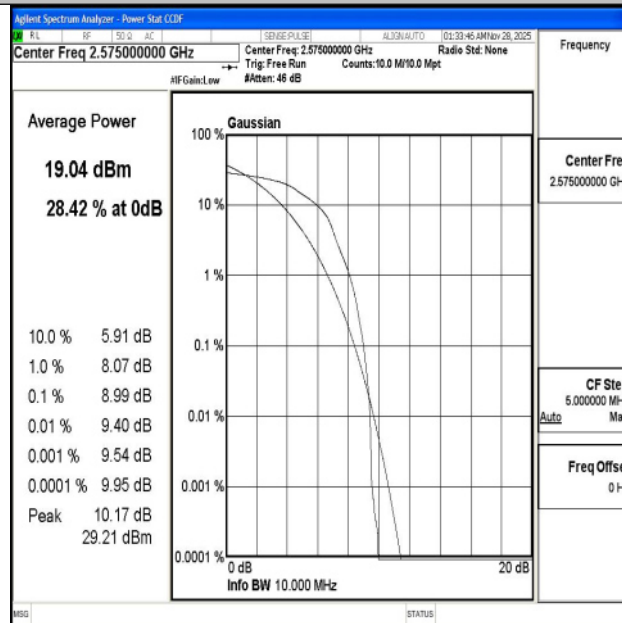


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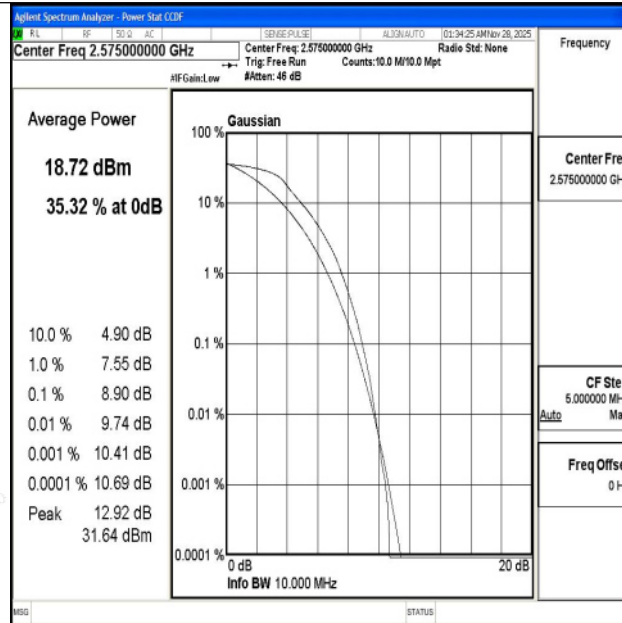


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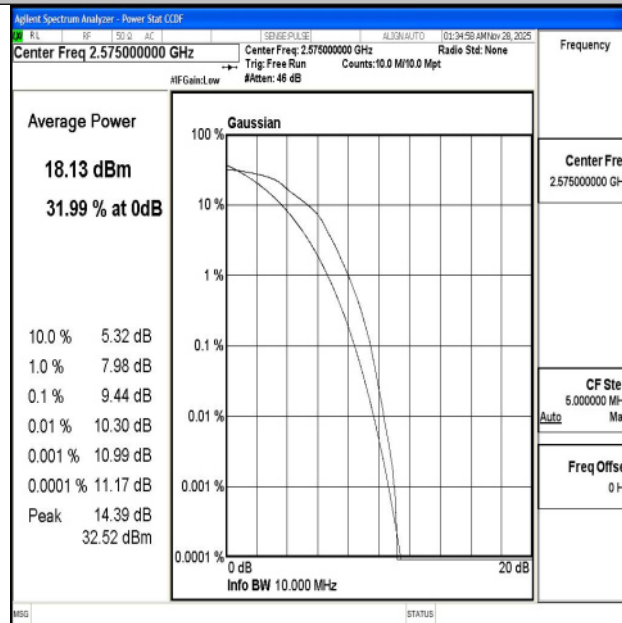


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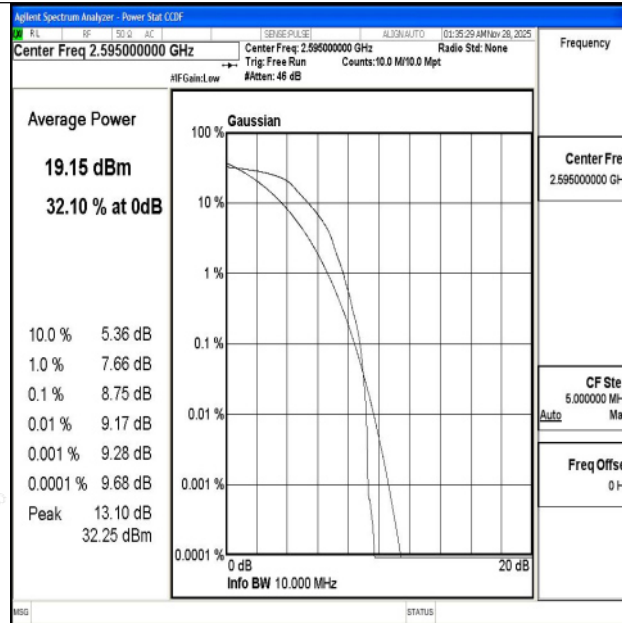


Band38-10MHz-QPSK-37800-50RB#0-PASS

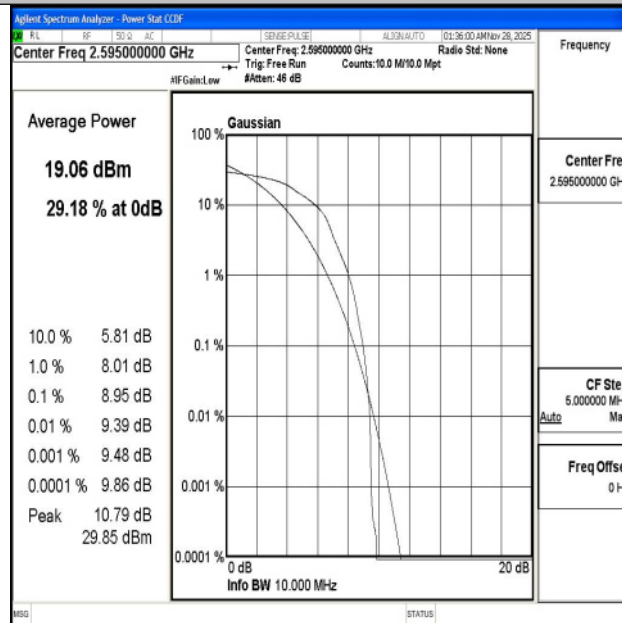


Band38-10MHz-16QAM-37800-50RB#0-PASS



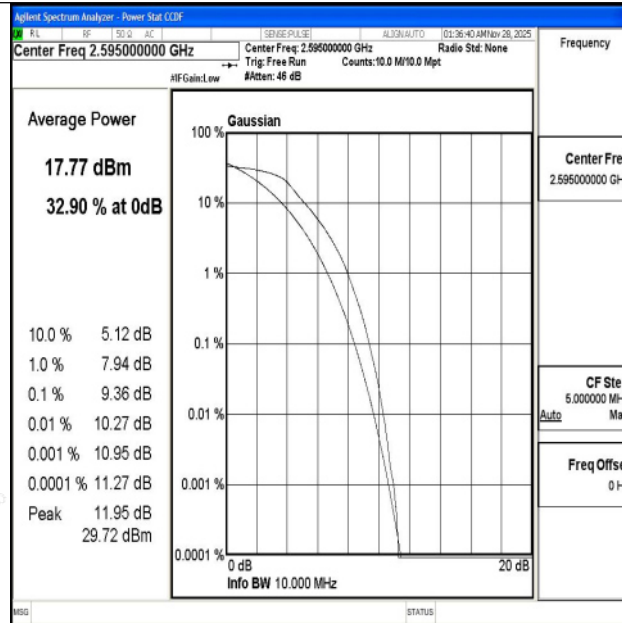


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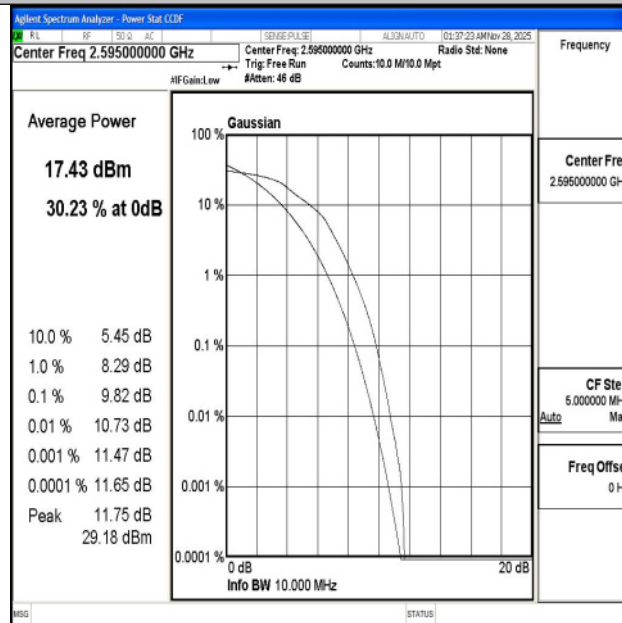


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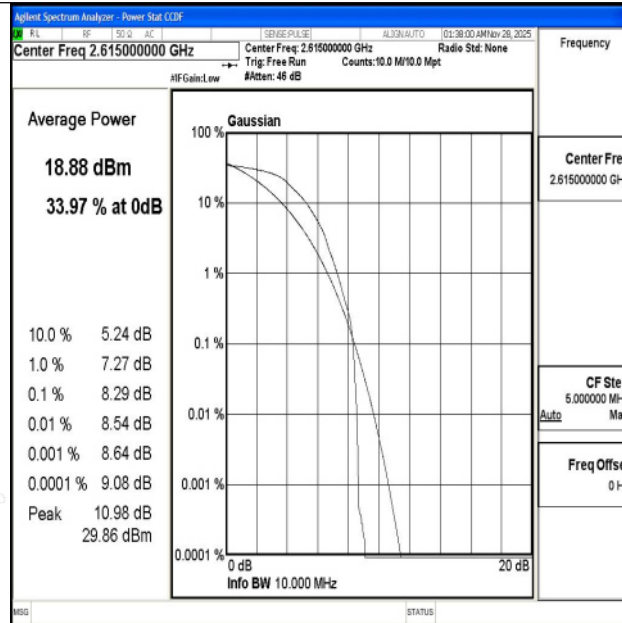


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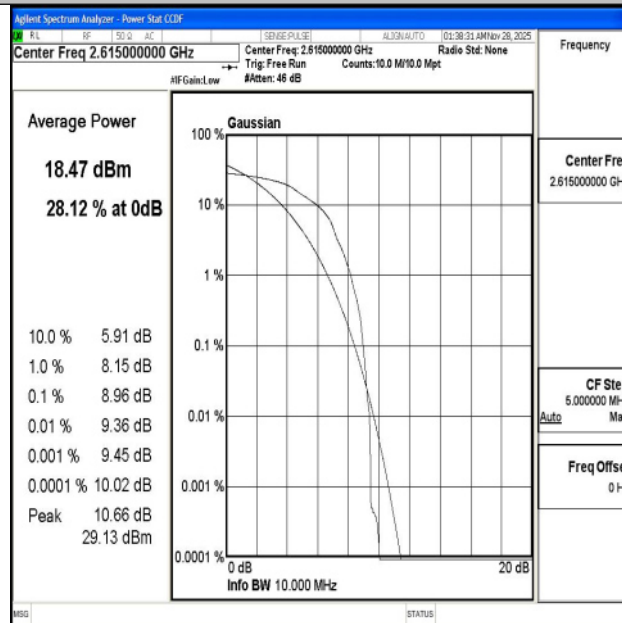


Band38-10MHz-16QAM-38000-50RB#0-PASS



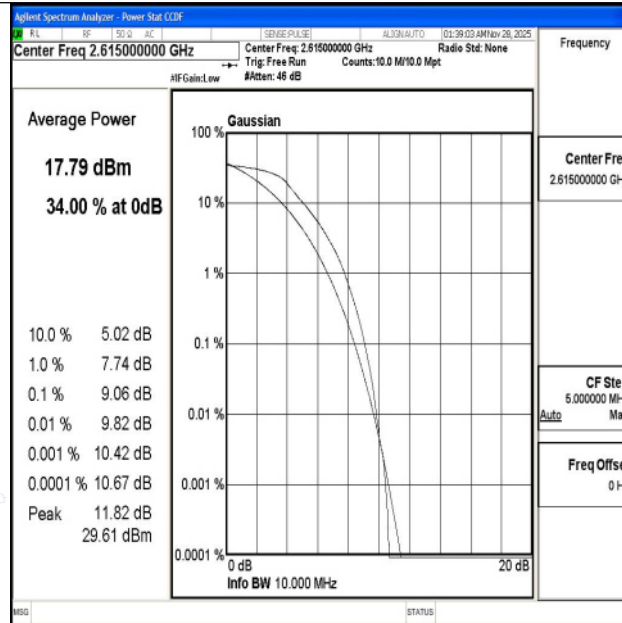


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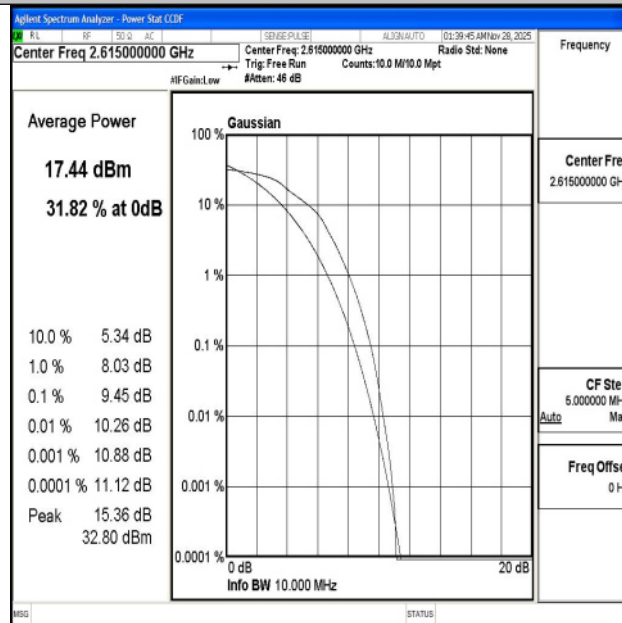


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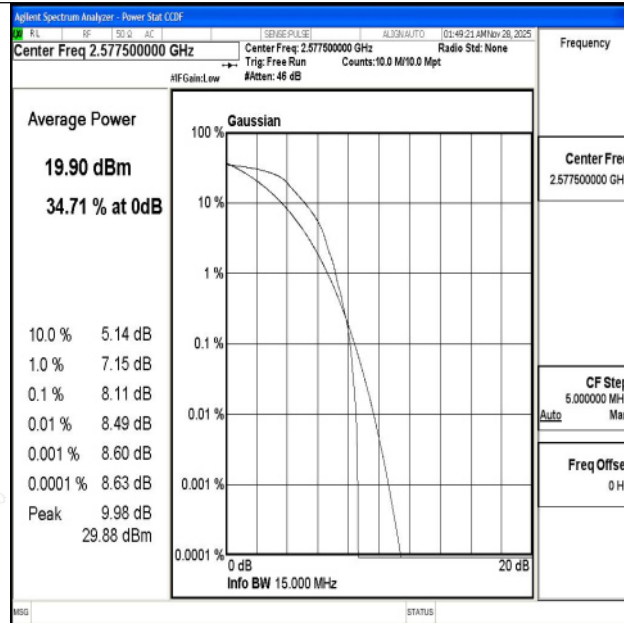


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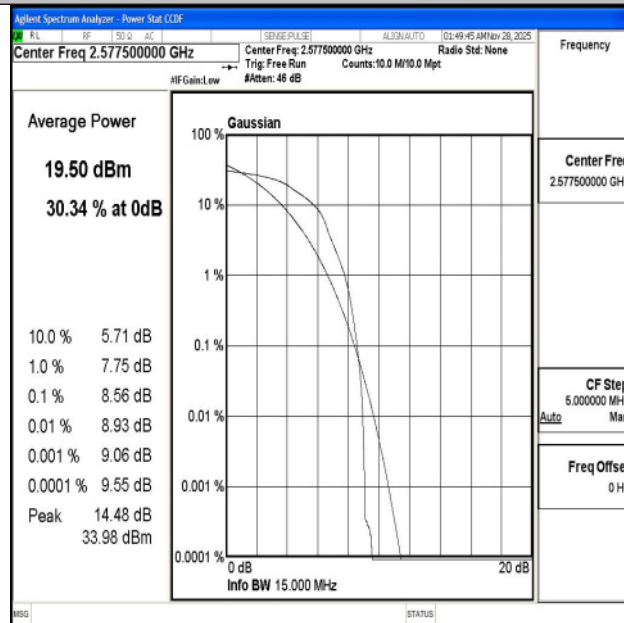


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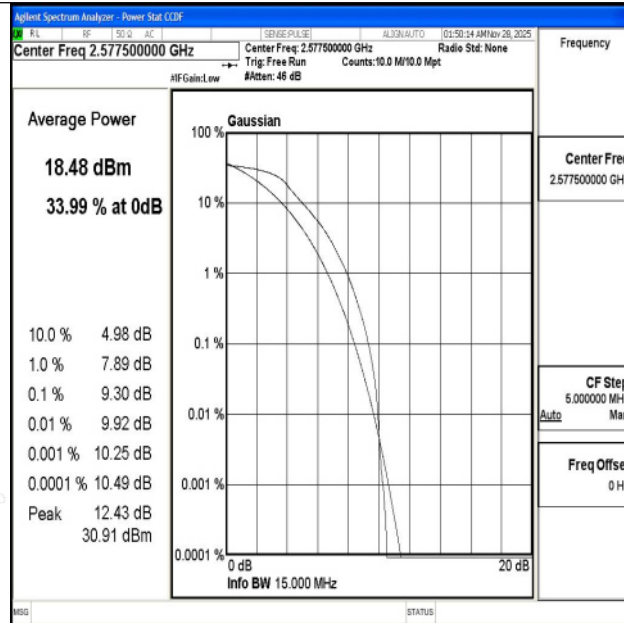


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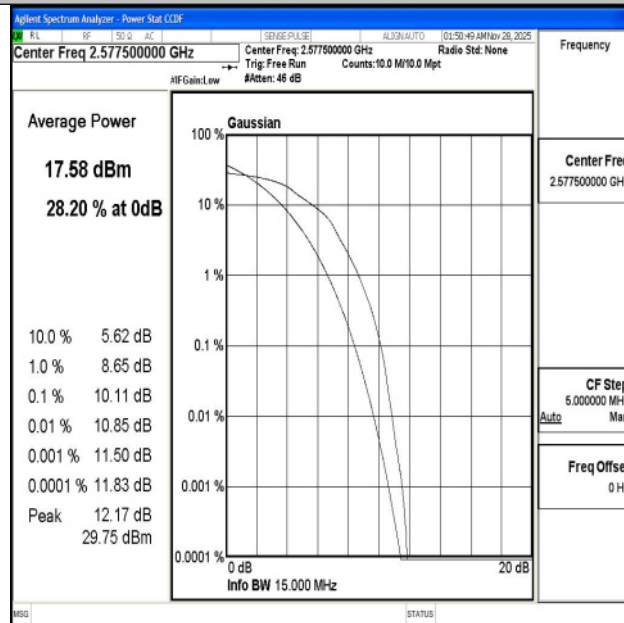


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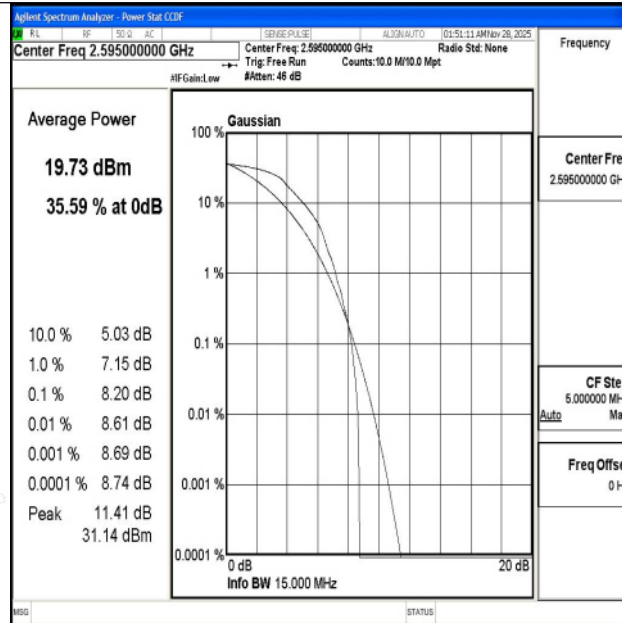


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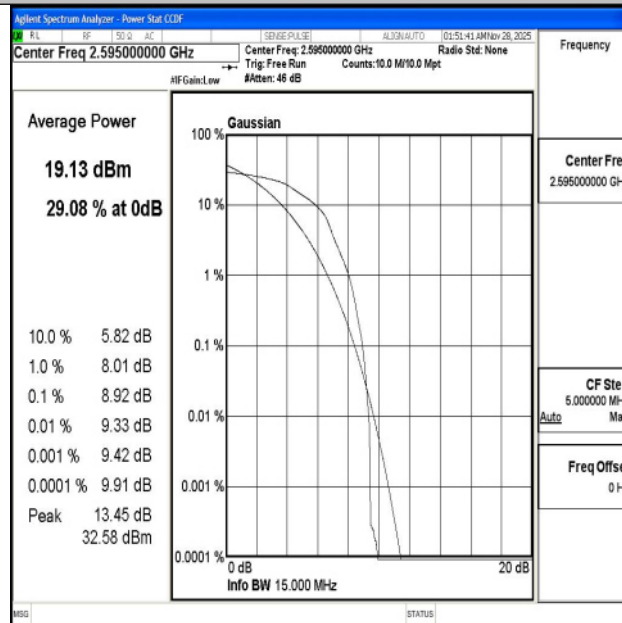


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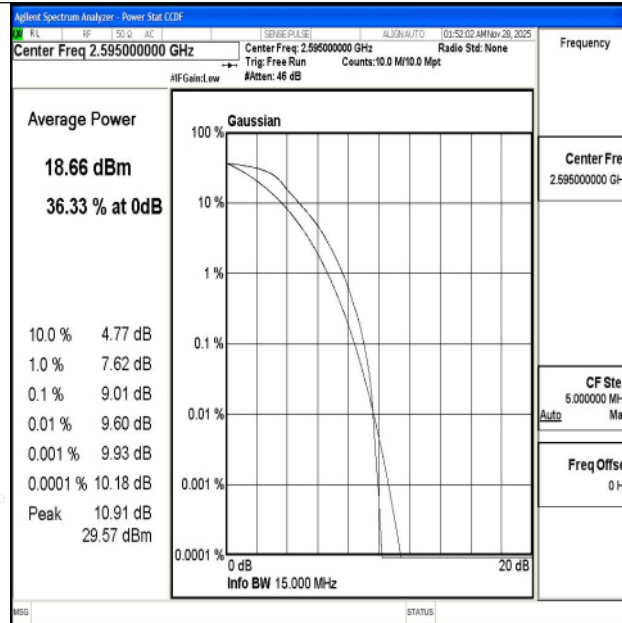


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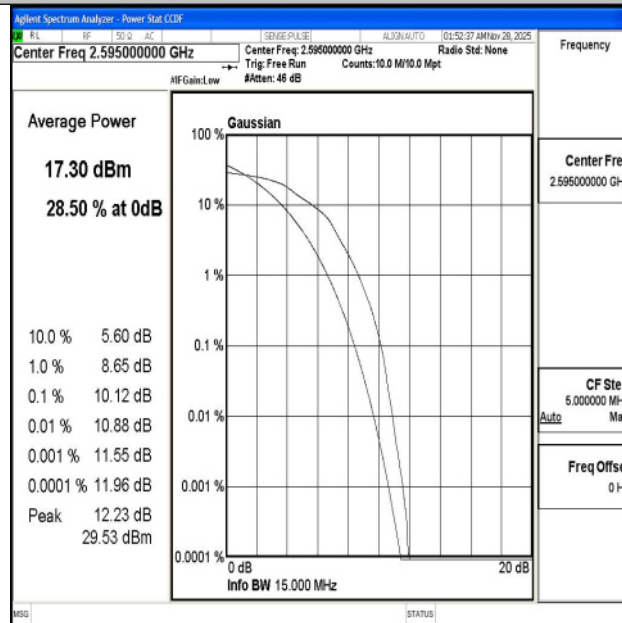


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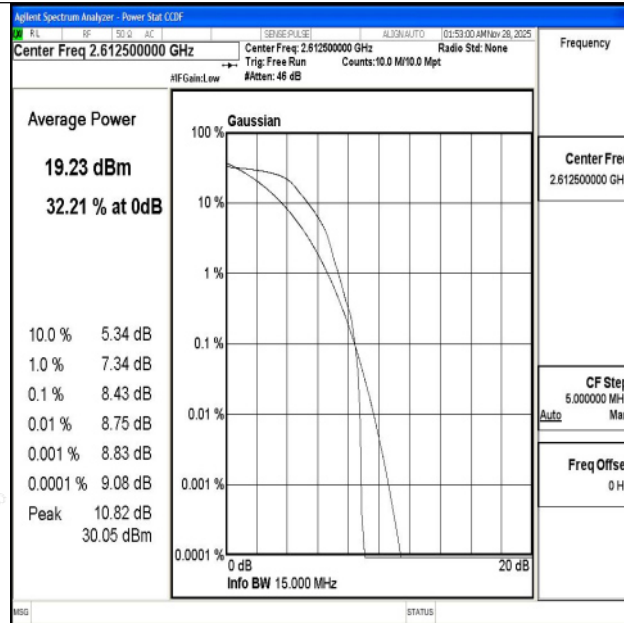


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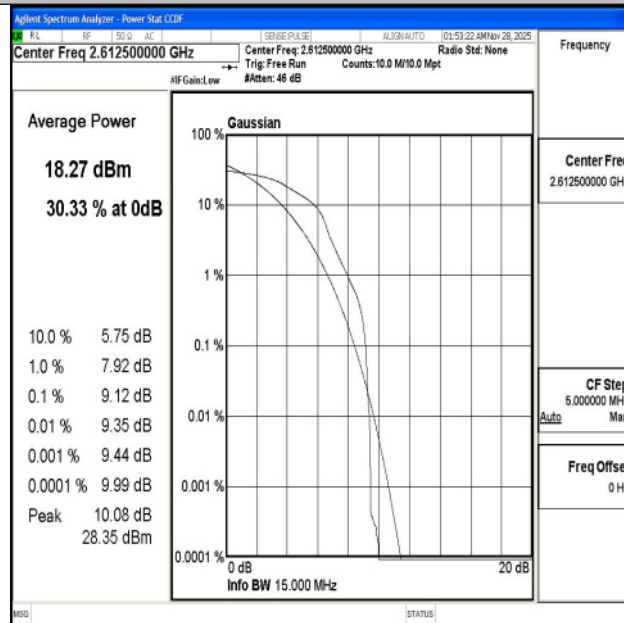


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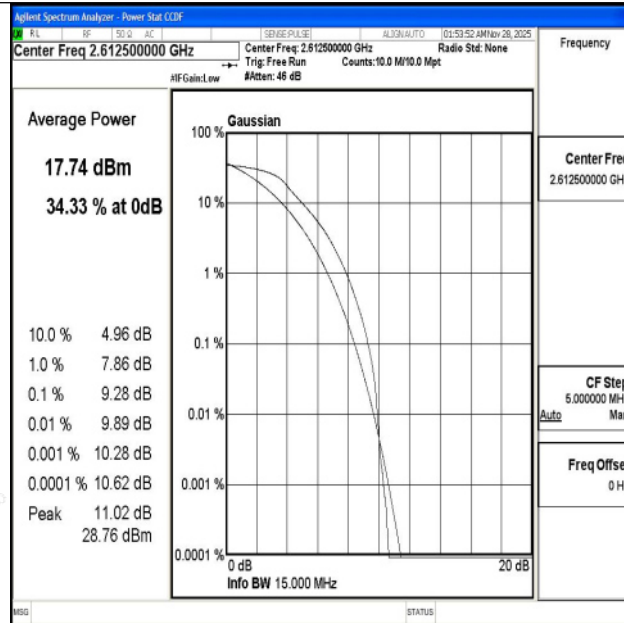


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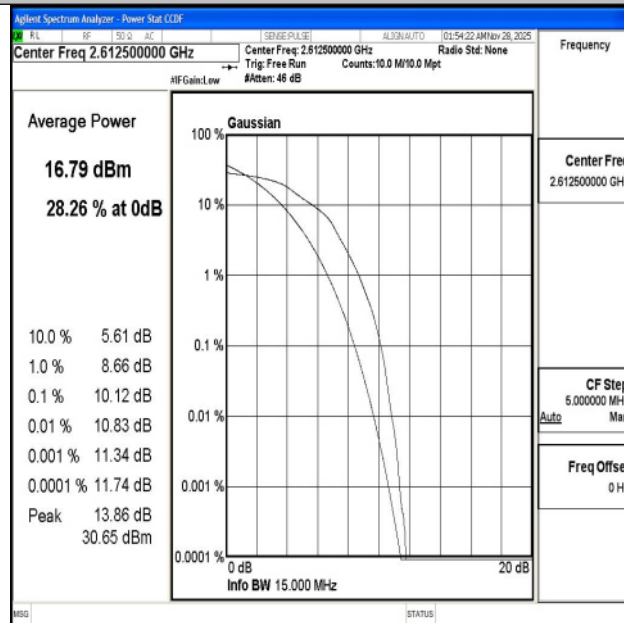


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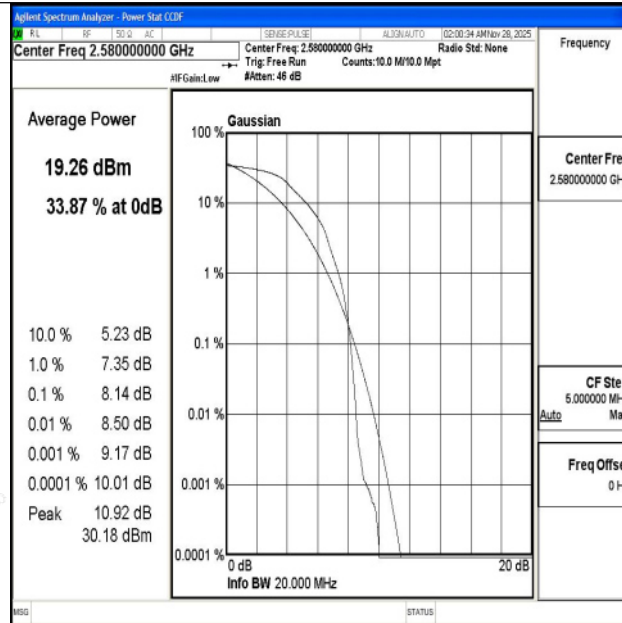


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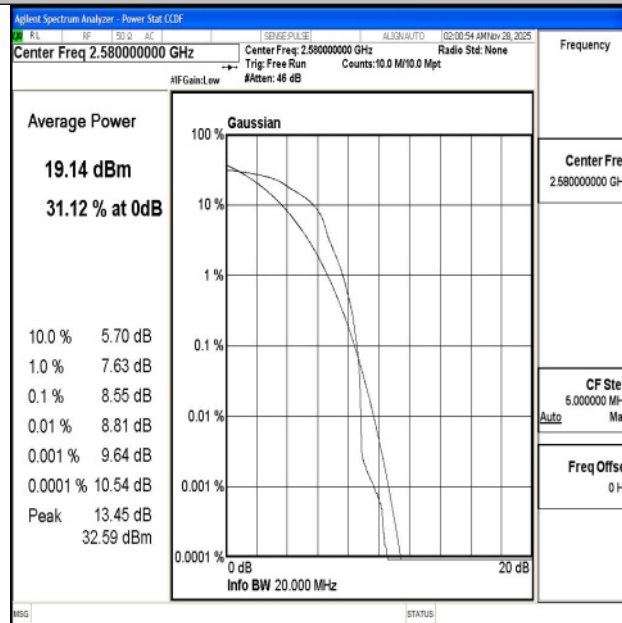


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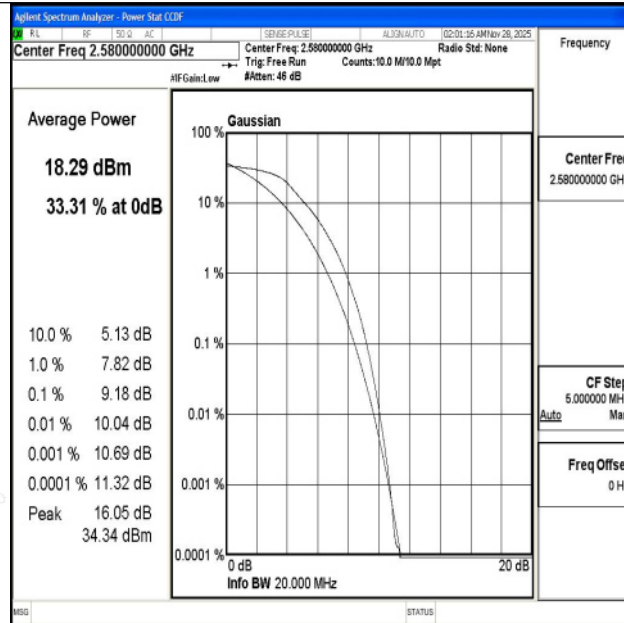


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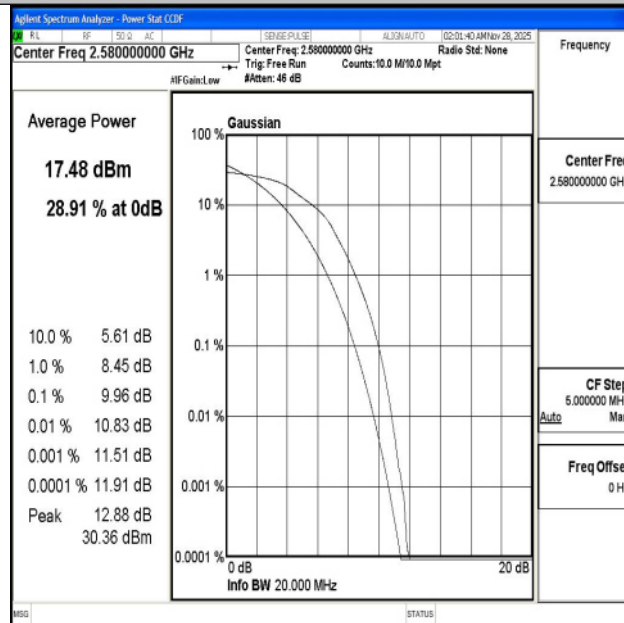


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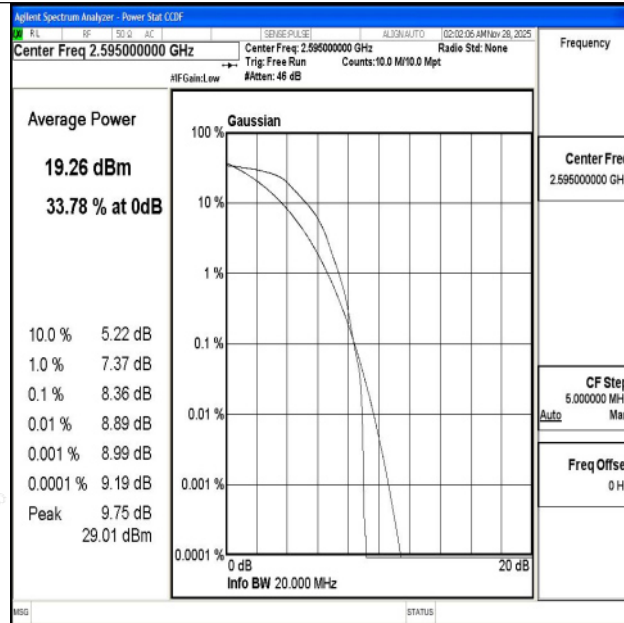


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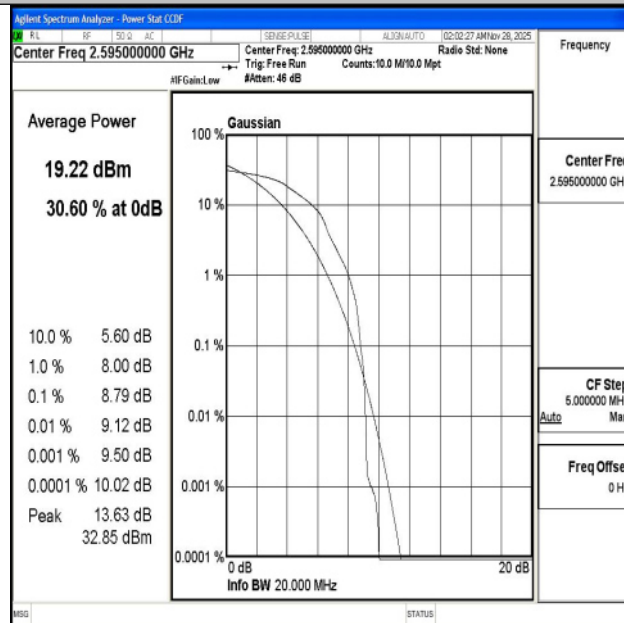


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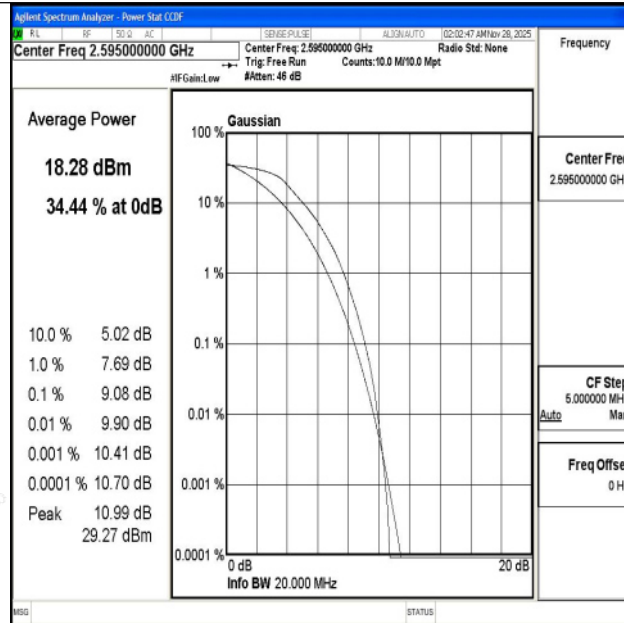


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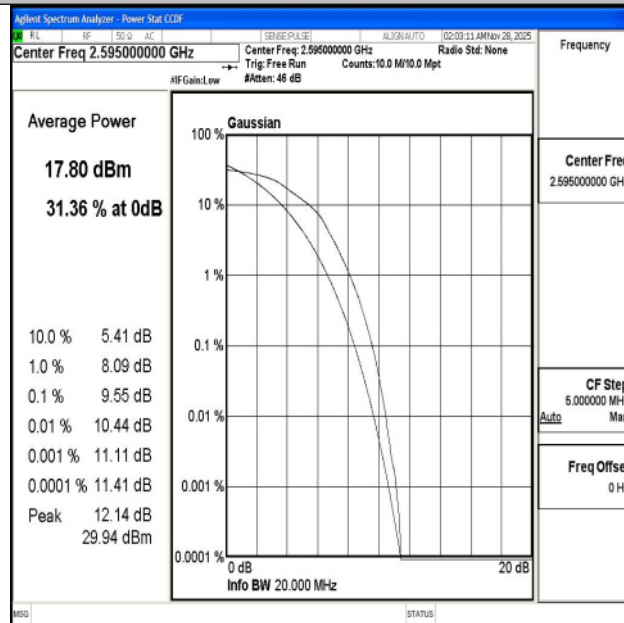


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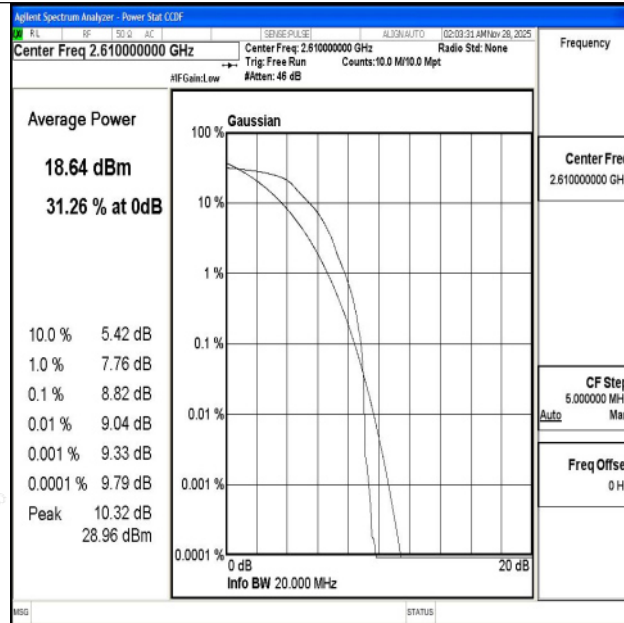


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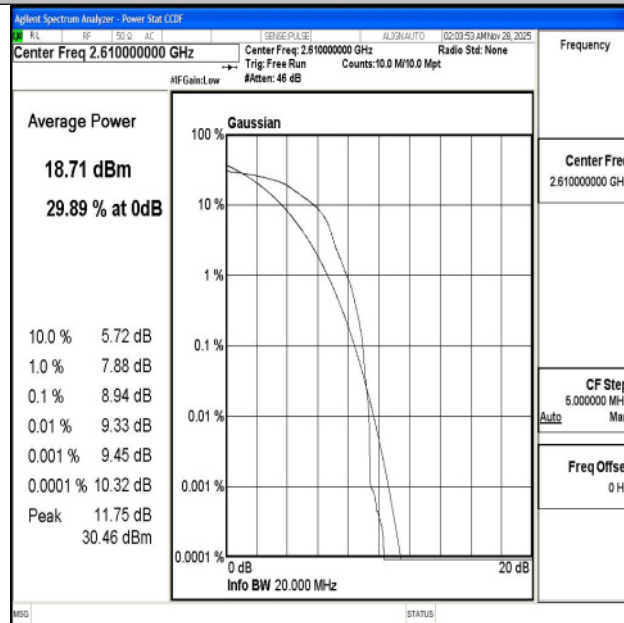


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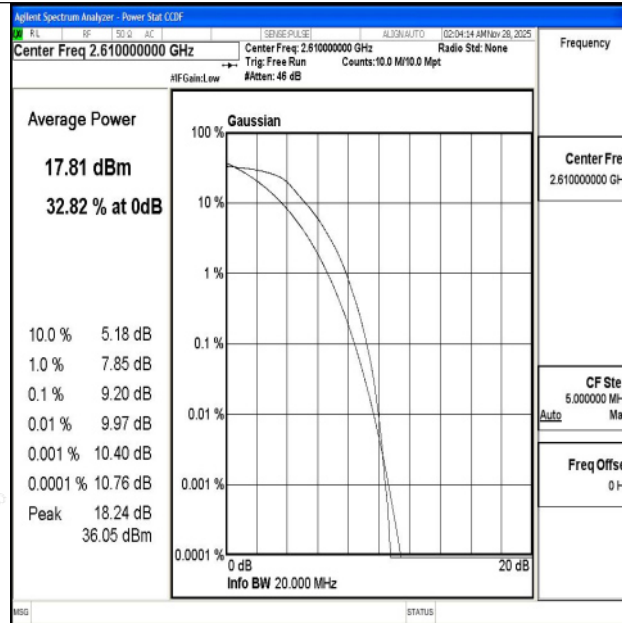


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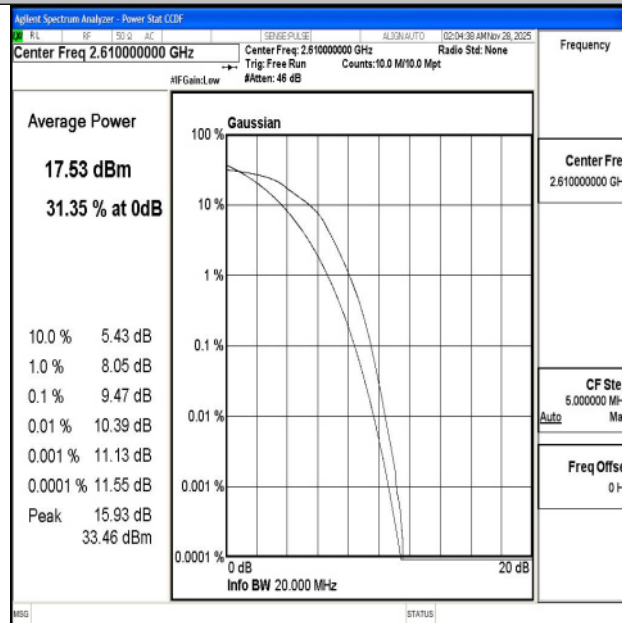


Band38-20MHz-16QAM-38150-1RB#0-PASS





Band38-20MHz-QPSK-38150-100RB#0-PASS



Band38-20MHz-16QAM-38150-100RB#0-PASS





J.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	4.4948	5.223	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4988	5.356	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5162	5.251	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5051	5.357	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4978	5.159	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.5068	5.323	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9949	10.09	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9815	10.17	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9659	10.13	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9894	9.940	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9924	10.28	PASS
Band38	10MHz	16QAM	38200	50RB#0	9.0113	11.11	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.518	15.16	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.444	14.97	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.534	15.16	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.503	15.25	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.481	16.02	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.514	15.87	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.024	20.23	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.927	20.65	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.960	19.47	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.018	20.84	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.917	20.11	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.967	20.54	PASS



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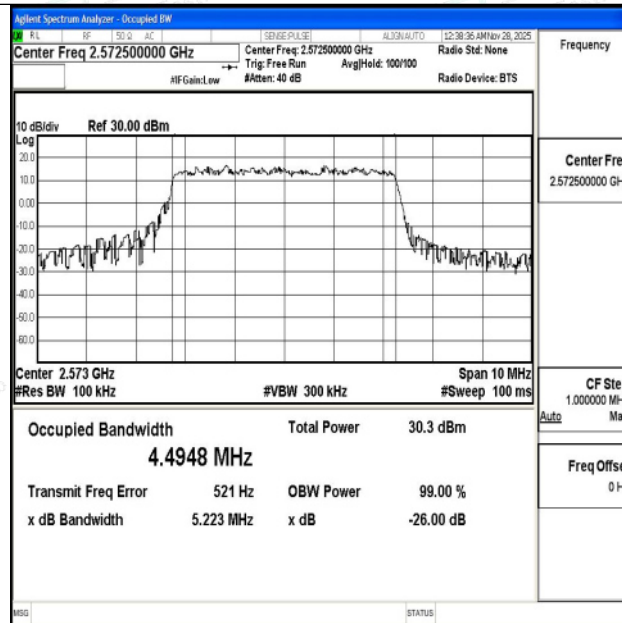
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

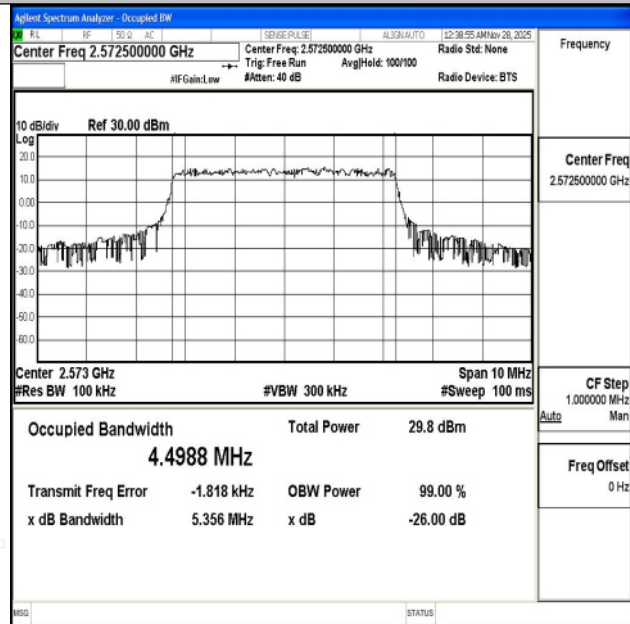
Scan code to check authenticity



Test Graphs



Band38-5MHz-QPSK-37775-25RB#0-PASS



Band38-5MHz-16QAM-37775-25RB#0-PASS

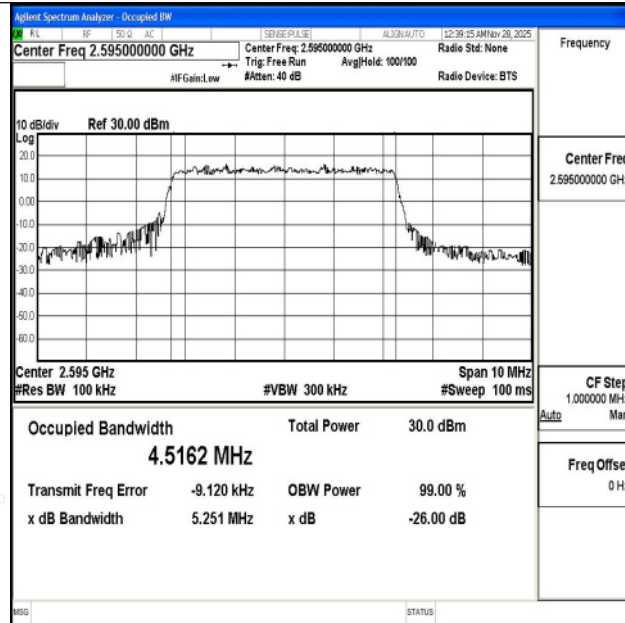


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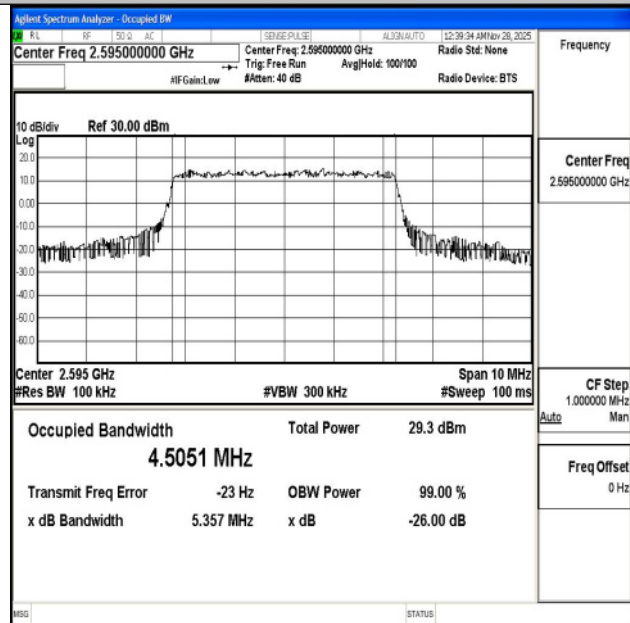
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Band38-5MHz-QPSK-38000-25RB#0-PASS



Band38-5MHz-16QAM-38000-25RB#0-PASS

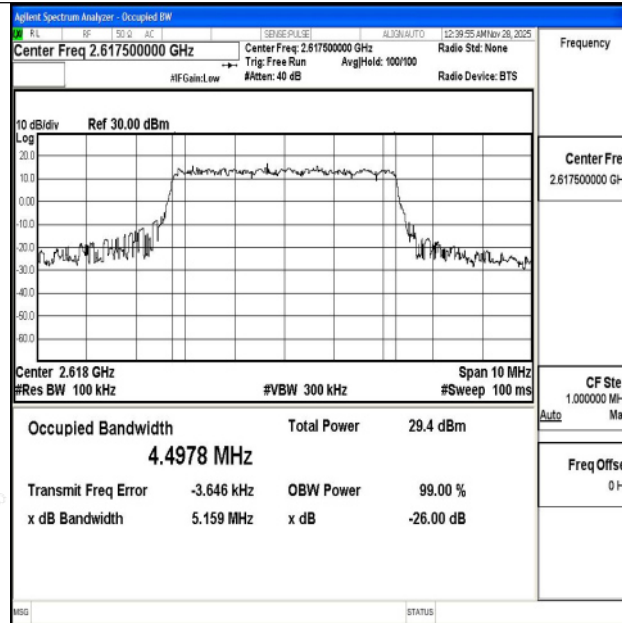


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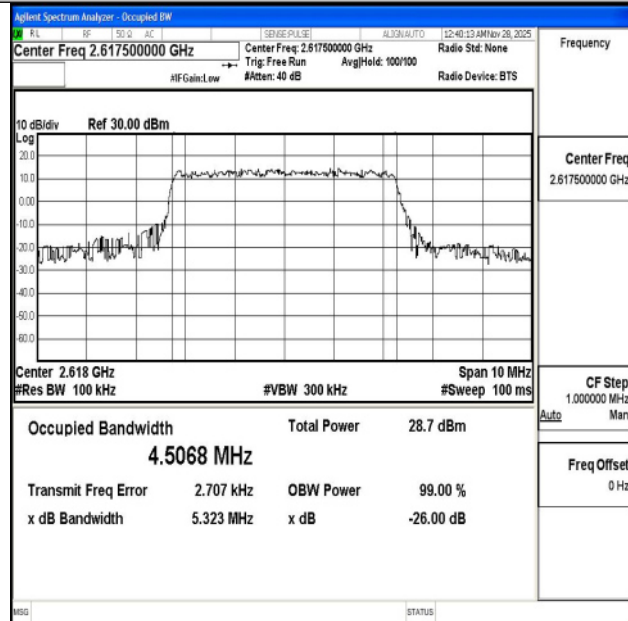
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Band38-5MHz-QPSK-38225-25RB#0-PASS



Band38-5MHz-16QAM-38225-25RB#0-PASS

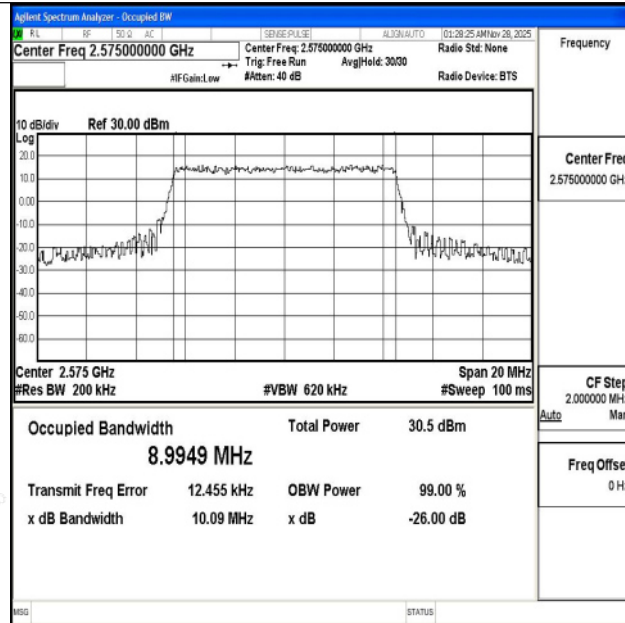


Shenzhen LCS Compliance Testing Laboratory Ltd.

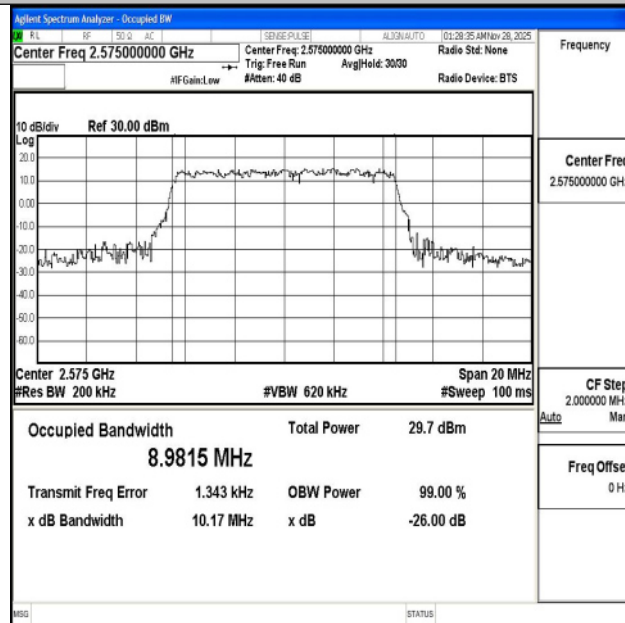
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band38-10MHz-QPSK-37800-50RB#0-PASS



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

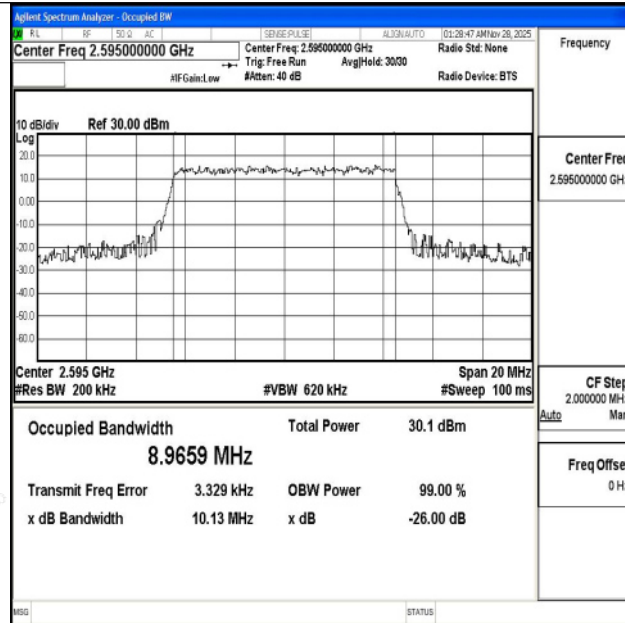


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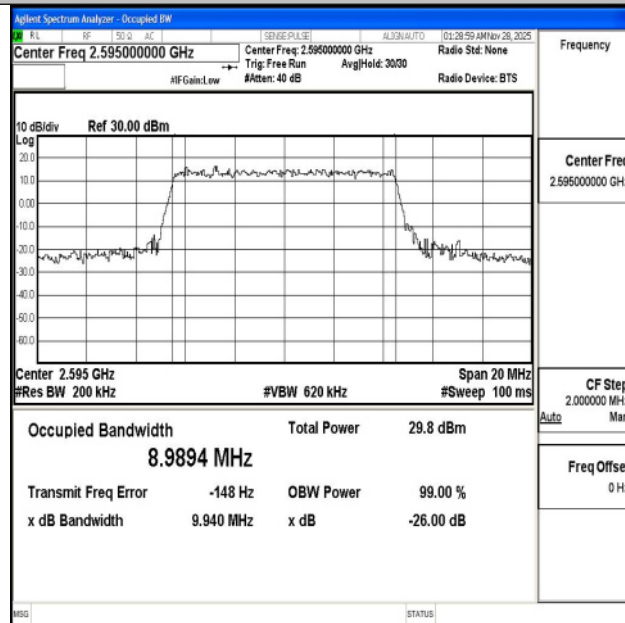
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band38-10MHz-QPSK-38000-50RB#0-PASS



Band38-10MHz-16QAM-38000-50RB#0-PASS



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