

Appendix P: Test Data for E-UTRA Band 38

Product Name: Smart Phone

Test Model: Air 1

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

P.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	23.23	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.12	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.3	PASS
Band38	5MHz	QPSK	37775	12RB#0	22.79	PASS
Band38	5MHz	QPSK	37775	12RB#6	22.73	PASS
Band38	5MHz	QPSK	37775	12RB#13	22.76	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.82	PASS
Band38	5MHz	16QAM	37775	1RB#0	23	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.7	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.95	PASS
Band38	5MHz	16QAM	37775	12RB#0	21.47	PASS
Band38	5MHz	16QAM	37775	12RB#6	21.4	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.43	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.48	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.71	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.5	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.89	PASS
Band38	5MHz	QPSK	38000	12RB#0	23.43	PASS
Band38	5MHz	QPSK	38000	12RB#6	23.39	PASS
Band38	5MHz	QPSK	38000	12RB#13	23.47	PASS
Band38	5MHz	QPSK	38000	25RB#0	23.47	PASS
Band38	5MHz	16QAM	38000	1RB#0	24.38	PASS
Band38	5MHz	16QAM	38000	1RB#12	23.57	PASS
Band38	5MHz	16QAM	38000	1RB#24	24.49	PASS
Band38	5MHz	16QAM	38000	12RB#0	21.99	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.98	PASS
Band38	5MHz	16QAM	38000	12RB#13	22.03	PASS
Band38	5MHz	16QAM	38000	25RB#0	22.26	PASS
Band38	5MHz	QPSK	38225	1RB#0	24.18	PASS
Band38	5MHz	QPSK	38225	1RB#12	24.15	PASS
Band38	5MHz	QPSK	38225	1RB#24	24.21	PASS
Band38	5MHz	QPSK	38225	12RB#0	23.84	PASS
Band38	5MHz	QPSK	38225	12RB#6	23.77	PASS
Band38	5MHz	QPSK	38225	12RB#13	23.79	PASS
Band38	5MHz	QPSK	38225	25RB#0	23.82	PASS
Band38	5MHz	16QAM	38225	1RB#0	24.45	PASS
Band38	5MHz	16QAM	38225	1RB#12	23.74	PASS

Band38	5MHz	16QAM	38225	1RB#24	24.44	PASS
Band38	5MHz	16QAM	38225	12RB#0	22.31	PASS
Band38	5MHz	16QAM	38225	12RB#6	22.39	PASS
Band38	5MHz	16QAM	38225	12RB#13	22.34	PASS
Band38	5MHz	16QAM	38225	25RB#0	22.38	PASS
Band38	10MHz	QPSK	37800	1RB#0	23.92	PASS
Band38	10MHz	QPSK	37800	1RB#24	23.83	PASS
Band38	10MHz	QPSK	37800	1RB#49	24.13	PASS
Band38	10MHz	QPSK	37800	25RB#0	23.28	PASS
Band38	10MHz	QPSK	37800	25RB#12	23.36	PASS
Band38	10MHz	QPSK	37800	25RB#25	23.46	PASS
Band38	10MHz	QPSK	37800	50RB#0	23.3	PASS
Band38	10MHz	16QAM	37800	1RB#0	23.54	PASS
Band38	10MHz	16QAM	37800	1RB#24	23.91	PASS
Band38	10MHz	16QAM	37800	1RB#49	23.79	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.85	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.89	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.97	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.94	PASS
Band38	10MHz	QPSK	38000	1RB#0	24.14	PASS
Band38	10MHz	QPSK	38000	1RB#24	24.39	PASS
Band38	10MHz	QPSK	38000	1RB#49	24.47	PASS
Band38	10MHz	QPSK	38000	25RB#0	23.91	PASS
Band38	10MHz	QPSK	38000	25RB#12	23.84	PASS
Band38	10MHz	QPSK	38000	25RB#25	24.08	PASS
Band38	10MHz	QPSK	38000	50RB#0	23.95	PASS
Band38	10MHz	16QAM	38000	1RB#0	23.65	PASS
Band38	10MHz	16QAM	38000	1RB#24	24.53	PASS
Band38	10MHz	16QAM	38000	1RB#49	23.92	PASS
Band38	10MHz	16QAM	38000	25RB#0	22.85	PASS
Band38	10MHz	16QAM	38000	25RB#12	22.77	PASS
Band38	10MHz	16QAM	38000	25RB#25	23.01	PASS
Band38	10MHz	16QAM	38000	50RB#0	22.55	PASS
Band38	10MHz	QPSK	38200	1RB#0	24.68	PASS
Band38	10MHz	QPSK	38200	1RB#24	24.49	PASS
Band38	10MHz	QPSK	38200	1RB#49	24.65	PASS
Band38	10MHz	QPSK	38200	25RB#0	24.04	PASS
Band38	10MHz	QPSK	38200	25RB#12	24.17	PASS
Band38	10MHz	QPSK	38200	25RB#25	24.12	PASS
Band38	10MHz	QPSK	38200	50RB#0	24.08	PASS
Band38	10MHz	16QAM	38200	1RB#0	24.36	PASS
Band38	10MHz	16QAM	38200	1RB#24	23.96	PASS

Band38	10MHz	16QAM	38200	1RB#49	24.41	PASS
Band38	10MHz	16QAM	38200	25RB#0	22.89	PASS
Band38	10MHz	16QAM	38200	25RB#12	22.75	PASS
Band38	10MHz	16QAM	38200	25RB#25	22.82	PASS
Band38	10MHz	16QAM	38200	50RB#0	22.85	PASS
Band38	15MHz	QPSK	37825	1RB#0	23.94	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.9	PASS
Band38	15MHz	QPSK	37825	1RB#74	24.16	PASS
Band38	15MHz	QPSK	37825	38RB#0	23.37	PASS
Band38	15MHz	QPSK	37825	38RB#18	23.36	PASS
Band38	15MHz	QPSK	37825	38RB#37	23.48	PASS
Band38	15MHz	QPSK	37825	75RB#0	23.42	PASS
Band38	15MHz	16QAM	37825	1RB#0	23.65	PASS
Band38	15MHz	16QAM	37825	1RB#38	23.95	PASS
Band38	15MHz	16QAM	37825	1RB#74	23.97	PASS
Band38	15MHz	16QAM	37825	38RB#0	21.9	PASS
Band38	15MHz	16QAM	37825	38RB#18	22.04	PASS
Band38	15MHz	16QAM	37825	38RB#37	22.14	PASS
Band38	15MHz	16QAM	37825	75RB#0	22.08	PASS
Band38	15MHz	QPSK	38000	1RB#0	24.14	PASS
Band38	15MHz	QPSK	38000	1RB#38	24.39	PASS
Band38	15MHz	QPSK	38000	1RB#74	24.67	PASS
Band38	15MHz	QPSK	38000	38RB#0	23.84	PASS
Band38	15MHz	QPSK	38000	38RB#18	23.84	PASS
Band38	15MHz	QPSK	38000	38RB#37	23.99	PASS
Band38	15MHz	QPSK	38000	75RB#0	23.8	PASS
Band38	15MHz	16QAM	38000	1RB#0	23.8	PASS
Band38	15MHz	16QAM	38000	1RB#38	24.55	PASS
Band38	15MHz	16QAM	38000	1RB#74	24.08	PASS
Band38	15MHz	16QAM	38000	38RB#0	22.38	PASS
Band38	15MHz	16QAM	38000	38RB#18	22.6	PASS
Band38	15MHz	16QAM	38000	38RB#37	22.74	PASS
Band38	15MHz	16QAM	38000	75RB#0	22.57	PASS
Band38	15MHz	QPSK	38175	1RB#0	24.7	PASS
Band38	15MHz	QPSK	38175	1RB#38	24.62	PASS
Band38	15MHz	QPSK	38175	1RB#74	24.63	PASS
Band38	15MHz	QPSK	38175	38RB#0	24.12	PASS
Band38	15MHz	QPSK	38175	38RB#18	24.01	PASS
Band38	15MHz	QPSK	38175	38RB#37	24.09	PASS
Band38	15MHz	QPSK	38175	75RB#0	24.04	PASS
Band38	15MHz	16QAM	38175	1RB#0	24.46	PASS
Band38	15MHz	16QAM	38175	1RB#38	23.83	PASS

Band38	15MHz	16QAM	38175	1RB#74	24.42	PASS
Band38	15MHz	16QAM	38175	38RB#0	22.68	PASS
Band38	15MHz	16QAM	38175	38RB#18	22.74	PASS
Band38	15MHz	16QAM	38175	38RB#37	22.81	PASS
Band38	15MHz	16QAM	38175	75RB#0	22.82	PASS
Band38	20MHz	QPSK	37850	1RB#0	23.65	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.86	PASS
Band38	20MHz	QPSK	37850	1RB#99	24.17	PASS
Band38	20MHz	QPSK	37850	50RB#0	23.36	PASS
Band38	20MHz	QPSK	37850	50RB#25	23.4	PASS
Band38	20MHz	QPSK	37850	50RB#50	23.6	PASS
Band38	20MHz	QPSK	37850	100RB#0	23.41	PASS
Band38	20MHz	16QAM	37850	1RB#0	23.64	PASS
Band38	20MHz	16QAM	37850	1RB#49	23.3	PASS
Band38	20MHz	16QAM	37850	1RB#99	24.37	PASS
Band38	20MHz	16QAM	37850	50RB#0	22.01	PASS
Band38	20MHz	16QAM	37850	50RB#25	22.15	PASS
Band38	20MHz	16QAM	37850	50RB#50	22.4	PASS
Band38	20MHz	16QAM	37850	100RB#0	22.04	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.97	PASS
Band38	20MHz	QPSK	38000	1RB#49	24.23	PASS
Band38	20MHz	QPSK	38000	1RB#99	24.6	PASS
Band38	20MHz	QPSK	38000	50RB#0	23.69	PASS
Band38	20MHz	QPSK	38000	50RB#25	23.86	PASS
Band38	20MHz	QPSK	38000	50RB#50	23.97	PASS
Band38	20MHz	QPSK	38000	100RB#0	23.76	PASS
Band38	20MHz	16QAM	38000	1RB#0	23.9	PASS
Band38	20MHz	16QAM	38000	1RB#49	23.45	PASS
Band38	20MHz	16QAM	38000	1RB#99	24.2	PASS
Band38	20MHz	16QAM	38000	50RB#0	22.37	PASS
Band38	20MHz	16QAM	38000	50RB#25	22.42	PASS
Band38	20MHz	16QAM	38000	50RB#50	22.64	PASS
Band38	20MHz	16QAM	38000	100RB#0	22.55	PASS
Band38	20MHz	QPSK	38150	1RB#0	24.19	PASS
Band38	20MHz	QPSK	38150	1RB#49	24.28	PASS
Band38	20MHz	QPSK	38150	1RB#99	24.29	PASS
Band38	20MHz	QPSK	38150	50RB#0	24.08	PASS
Band38	20MHz	QPSK	38150	50RB#25	24.03	PASS
Band38	20MHz	QPSK	38150	50RB#50	23.94	PASS
Band38	20MHz	QPSK	38150	100RB#0	24.05	PASS
Band38	20MHz	16QAM	38150	1RB#0	23.48	PASS
Band38	20MHz	16QAM	38150	1RB#49	24.16	PASS

Band38	20MHz	16QAM	38150	1RB#99	23.6	PASS
Band38	20MHz	16QAM	38150	50RB#0	22.69	PASS
Band38	20MHz	16QAM	38150	50RB#25	22.49	PASS
Band38	20MHz	16QAM	38150	50RB#50	22.71	PASS
Band38	20MHz	16QAM	38150	100RB#0	22.63	PASS

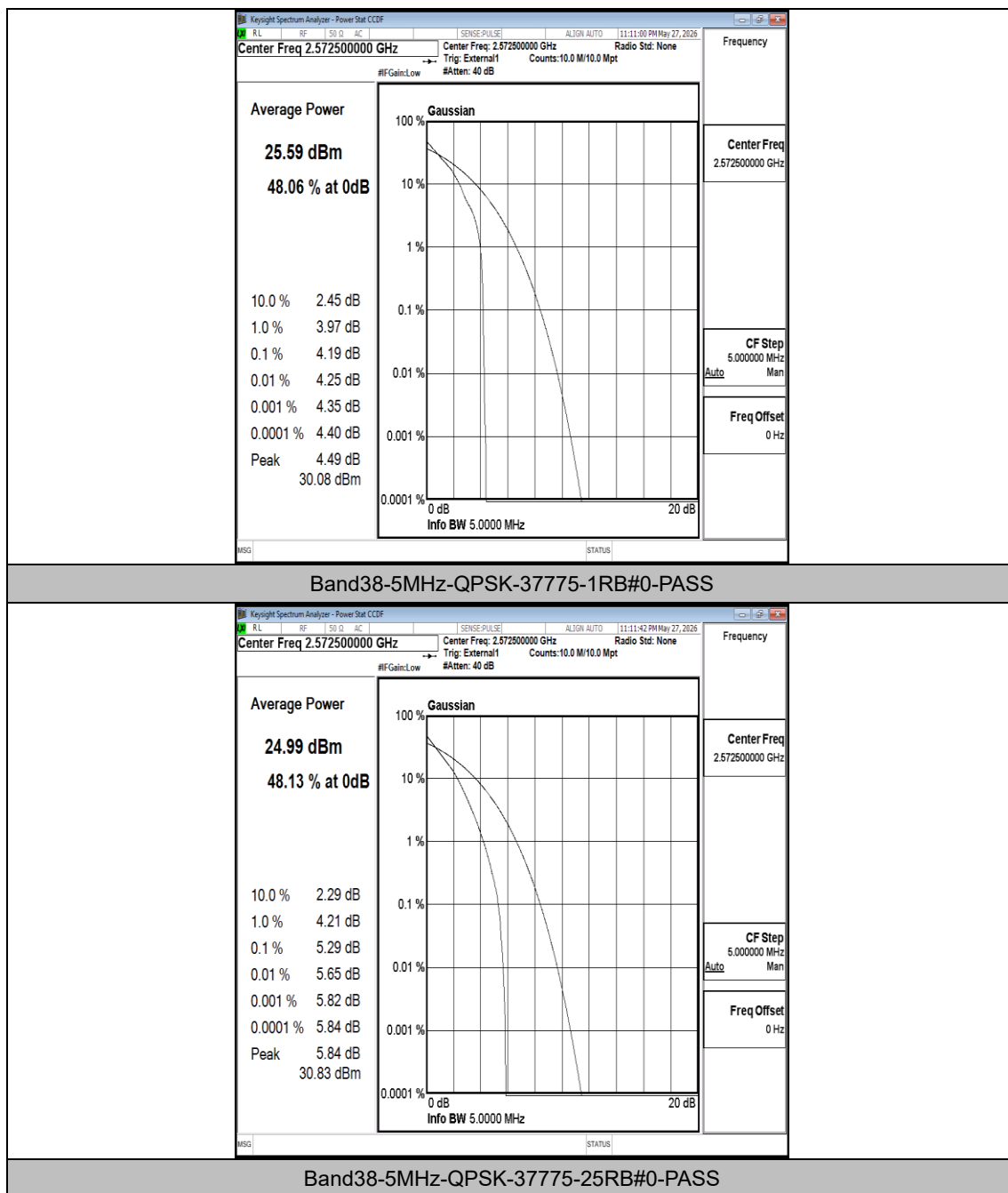
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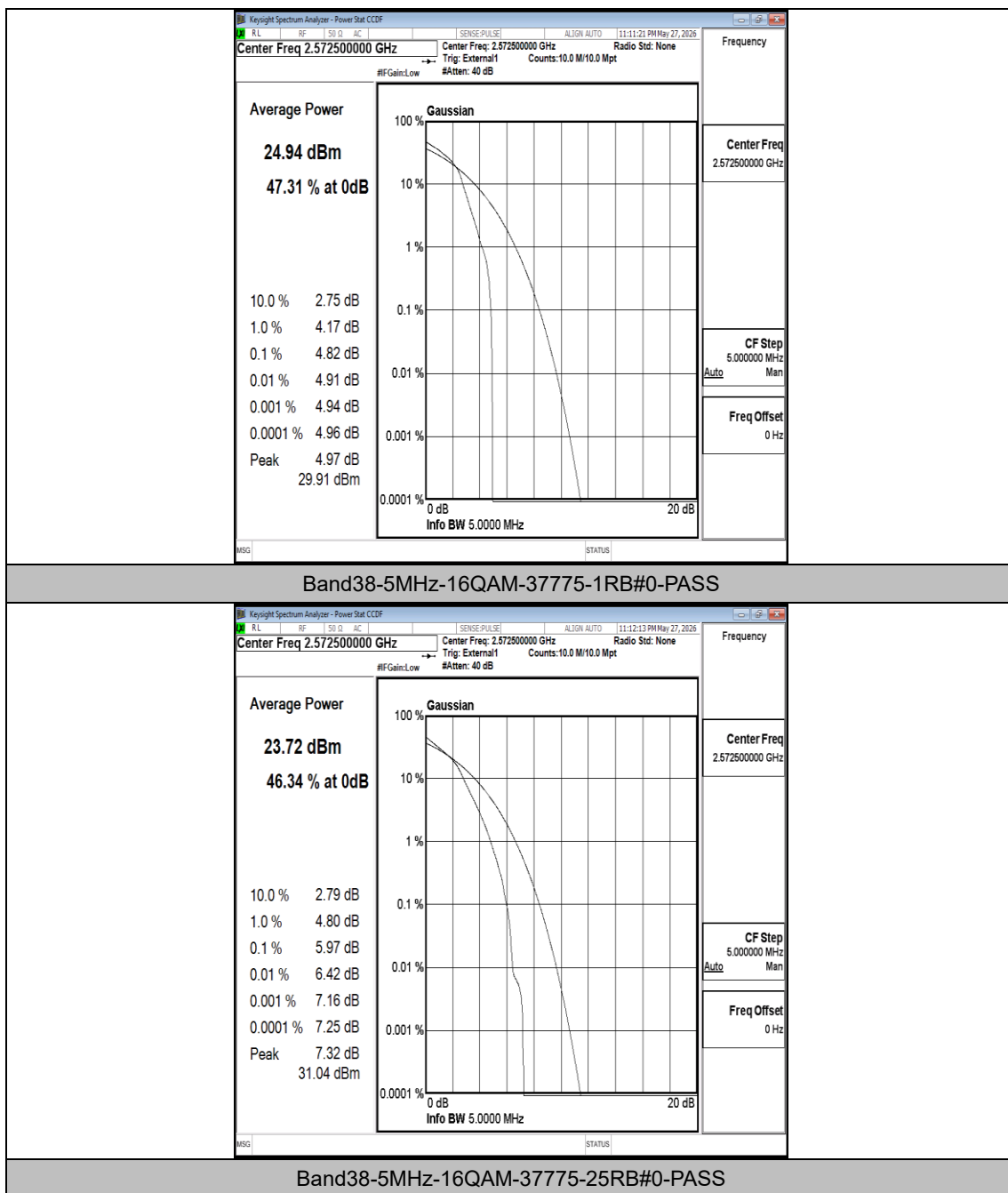
Test Result

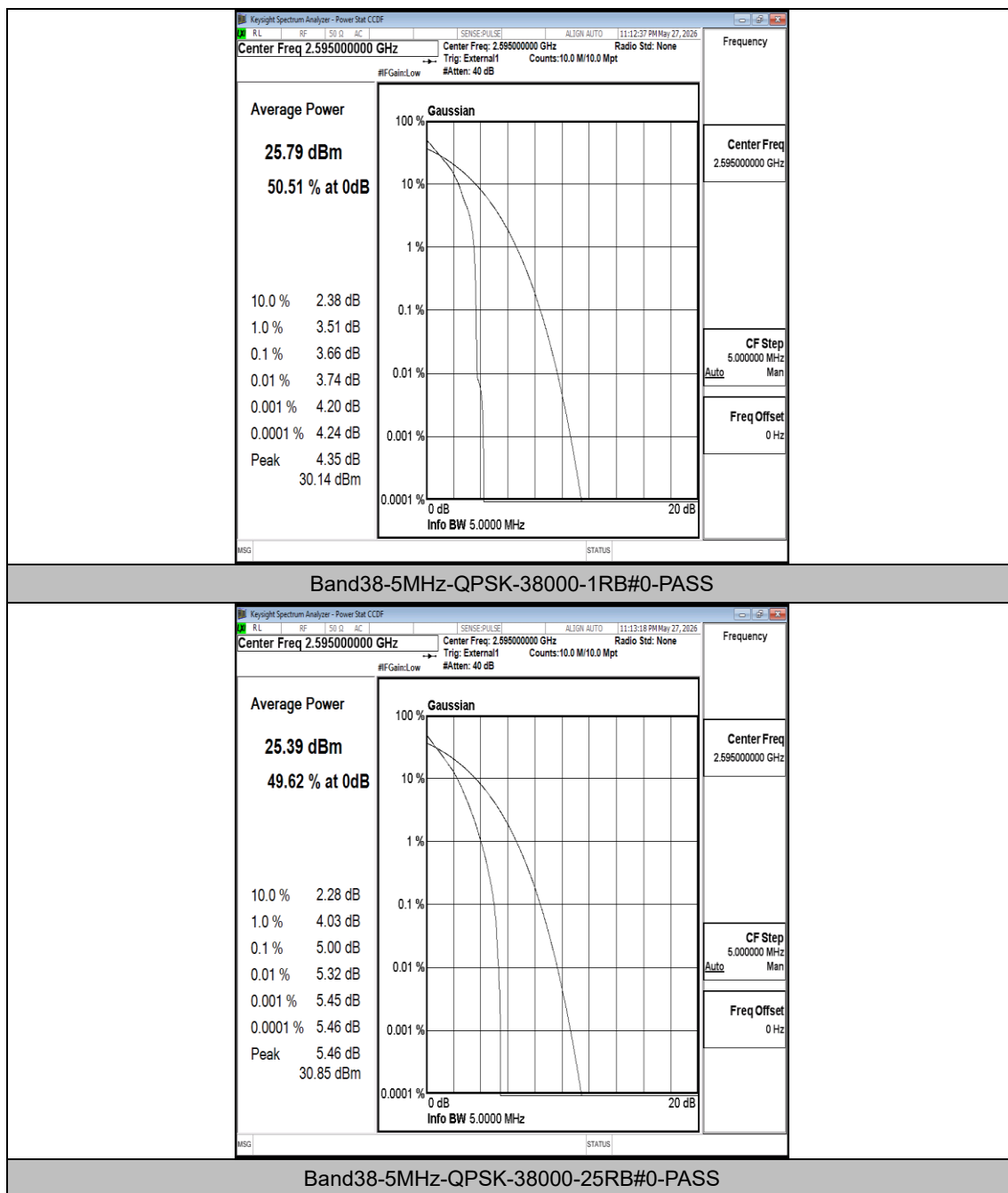
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	4.19	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	5.29	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	4.82	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	5.97	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	3.66	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.00	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	4.17	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	5.73	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	3.16	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.80	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	3.79	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	5.57	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	4.19	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.14	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	4.68	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	5.88	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	3.59	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	4.89	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	4.36	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	5.68	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	3.06	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	4.64	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	3.59	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	5.51	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	4.35	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.40	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	4.80	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	6.04	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	3.94	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.13	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	3.93	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	5.87	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	3.33	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	4.92	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	3.92	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	5.67	13	PASS
Band38	20MHz	QPSK	37850	1RB#0	4.24	13	PASS

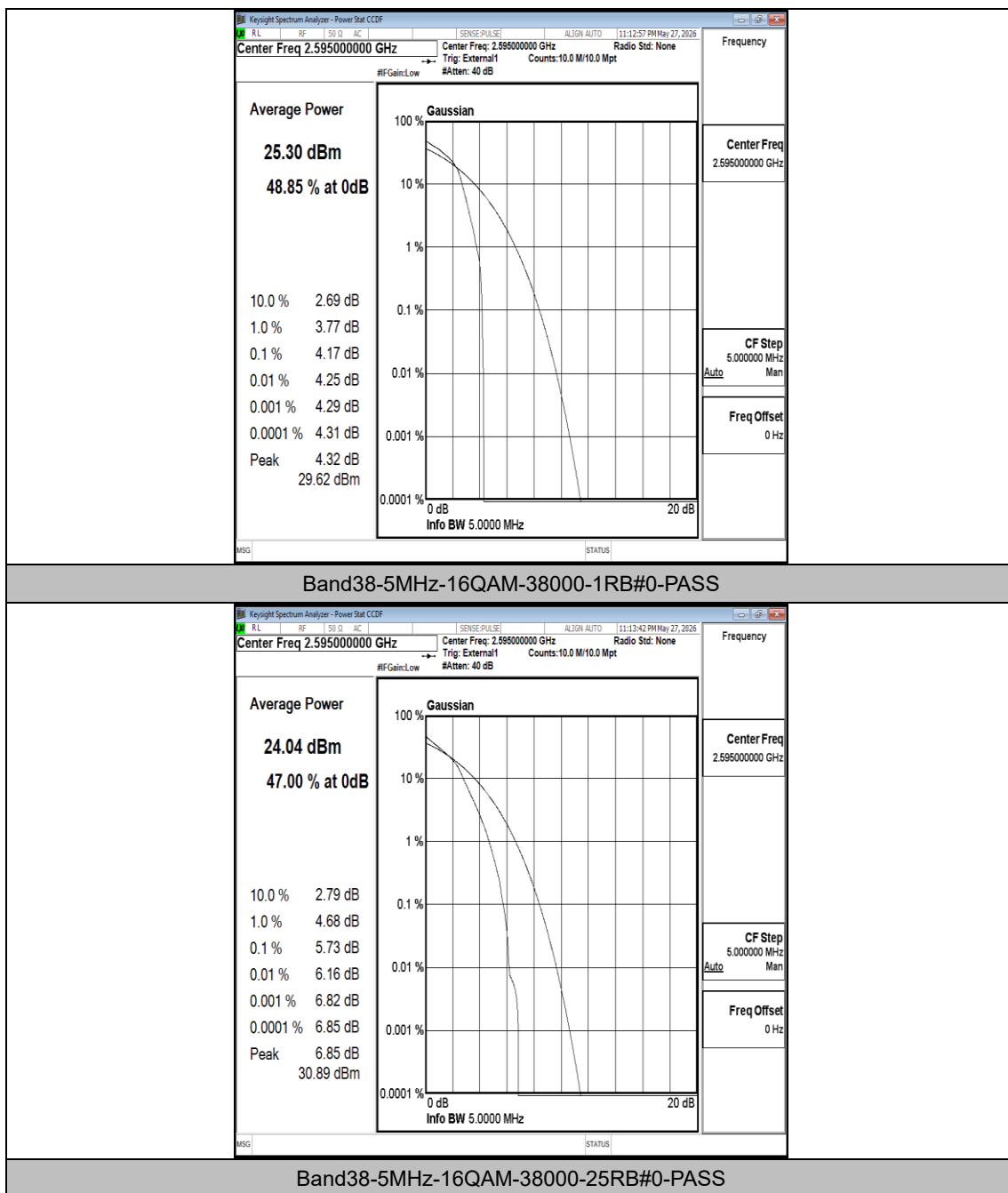
Band38	20MHz	QPSK	37850	100RB#0	5.08	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	4.34	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.91	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	3.95	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	4.92	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	4.35	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	5.80	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	3.56	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	4.71	13	PASS
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Band38	20MHz	16QAM	38150	100RB#0	5.62	13	PASS

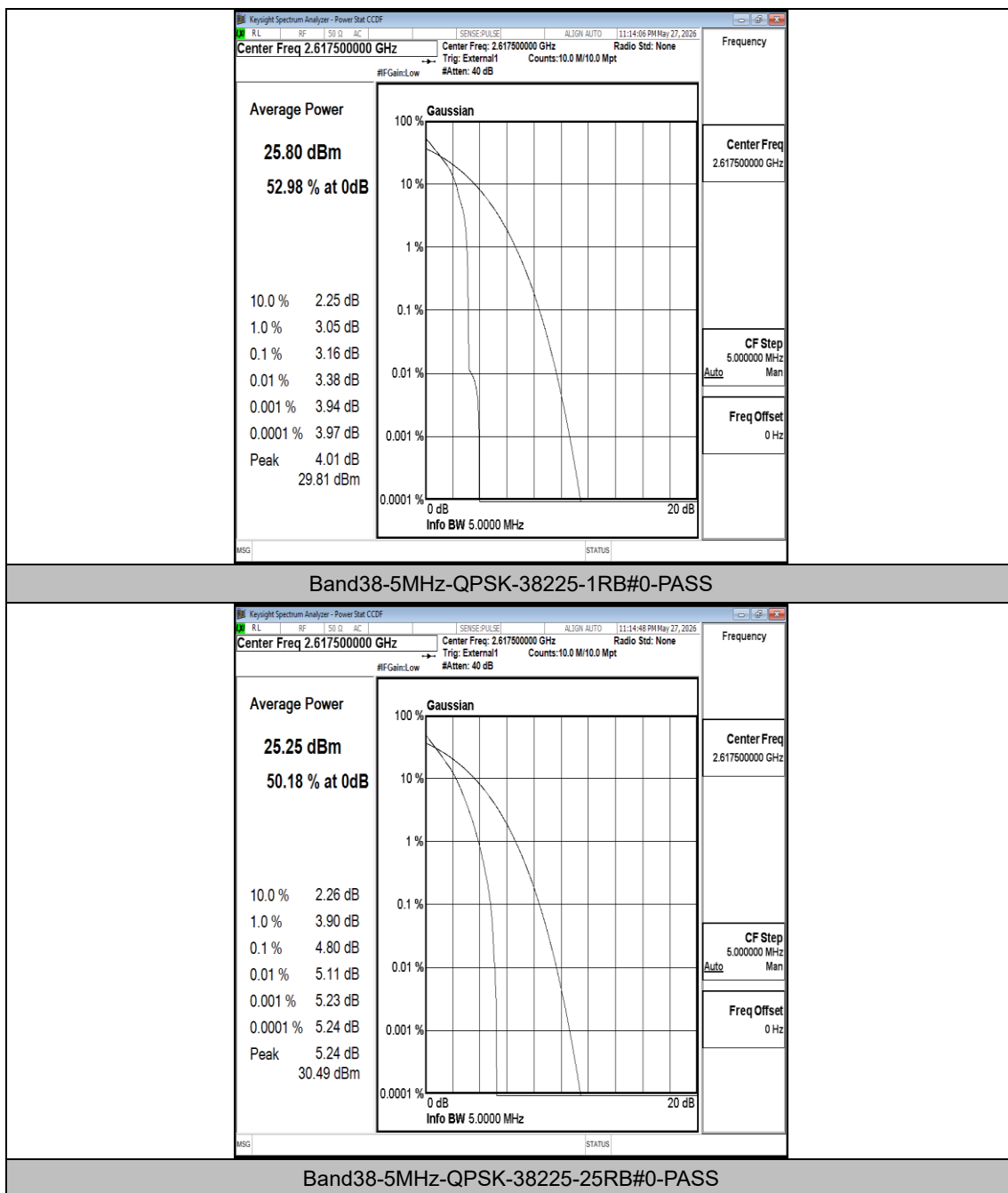
Test Graphs

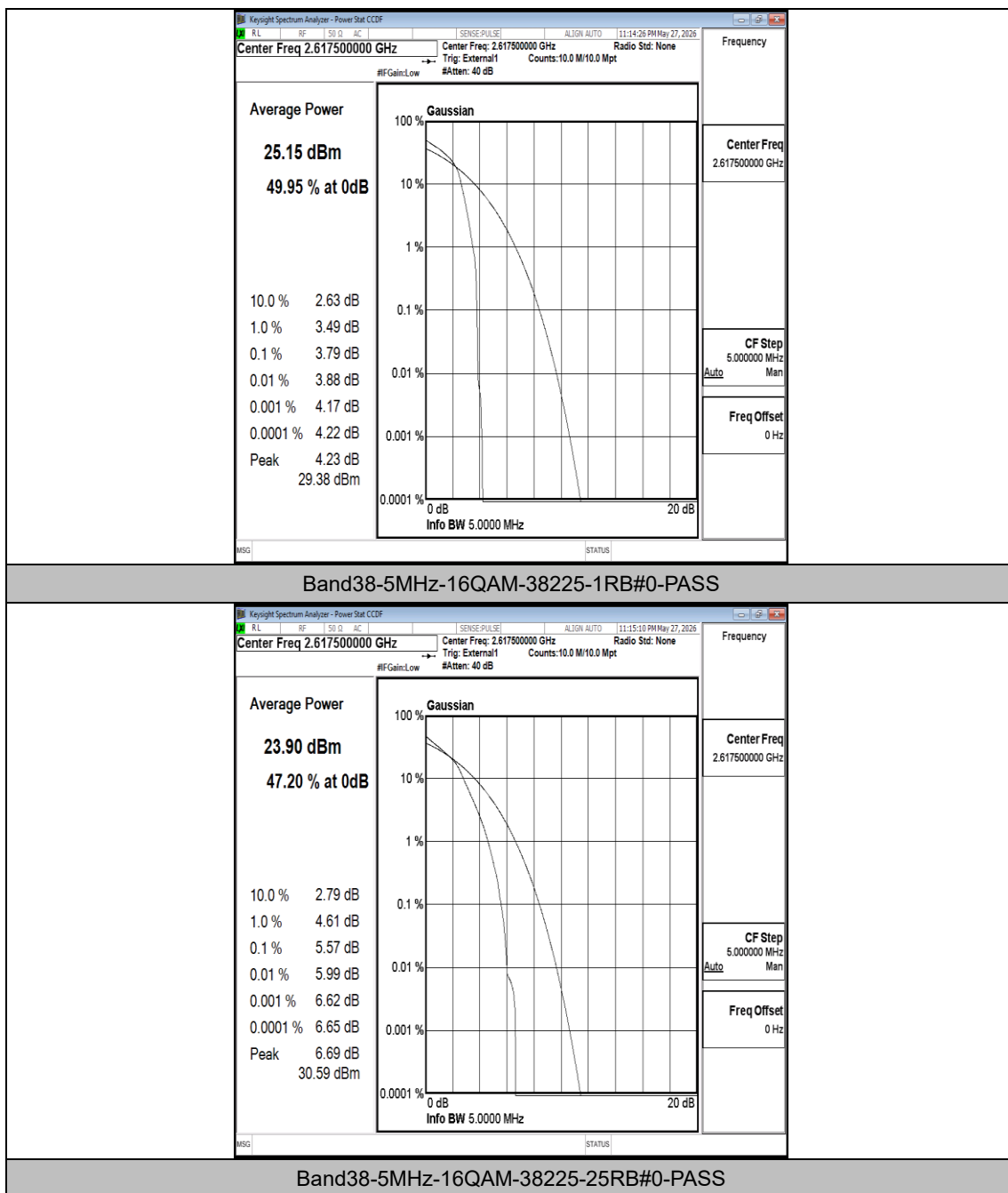


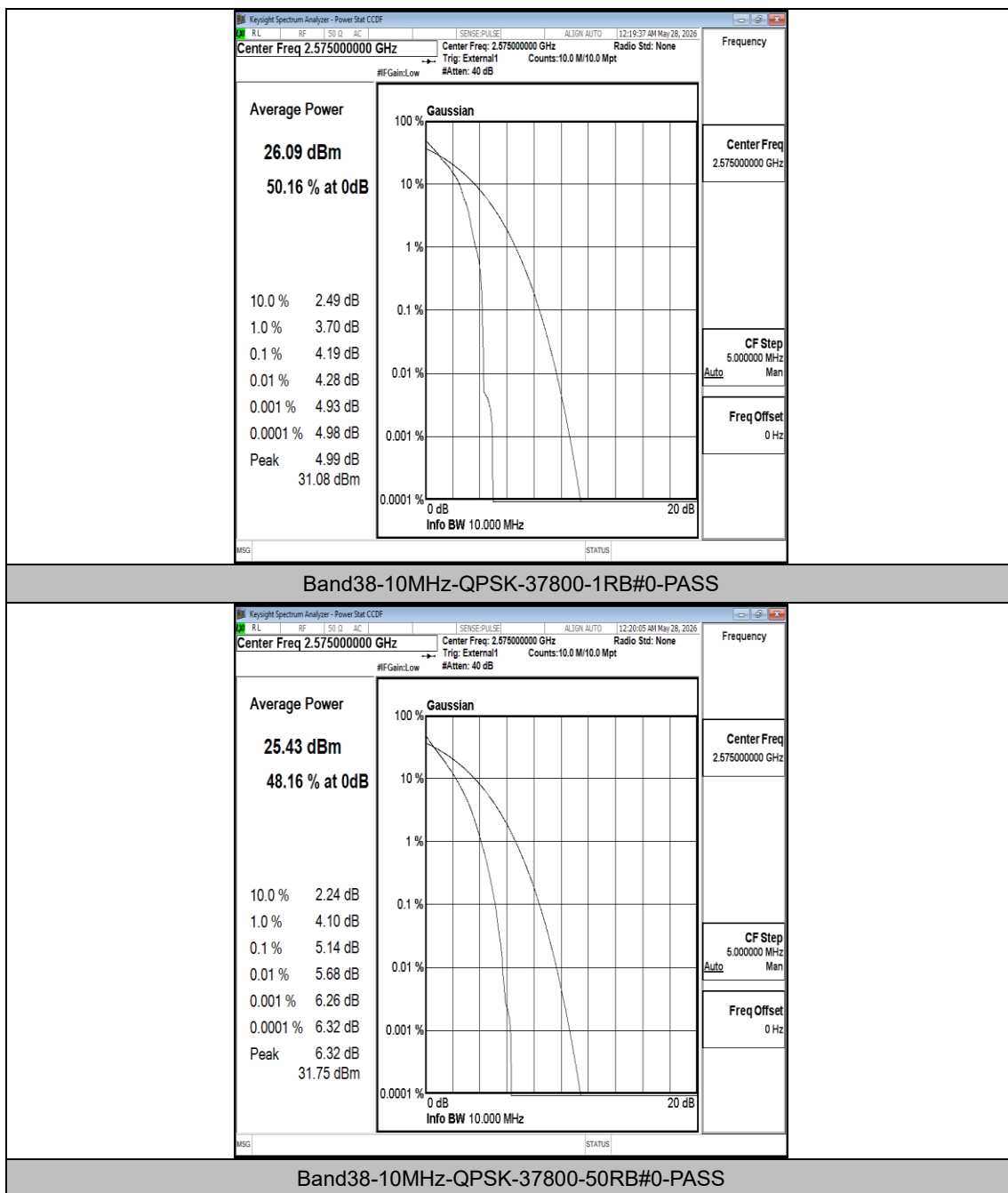


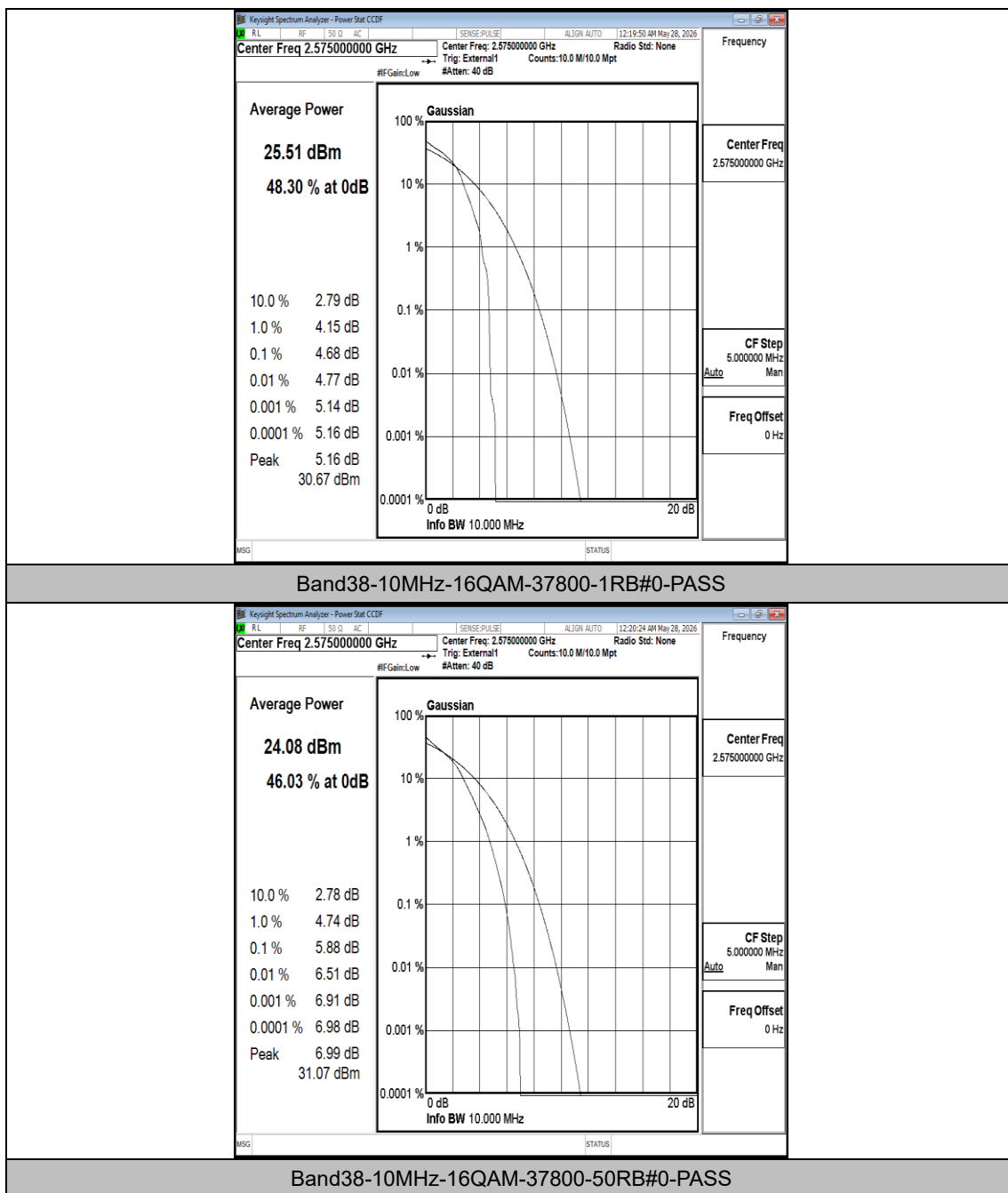


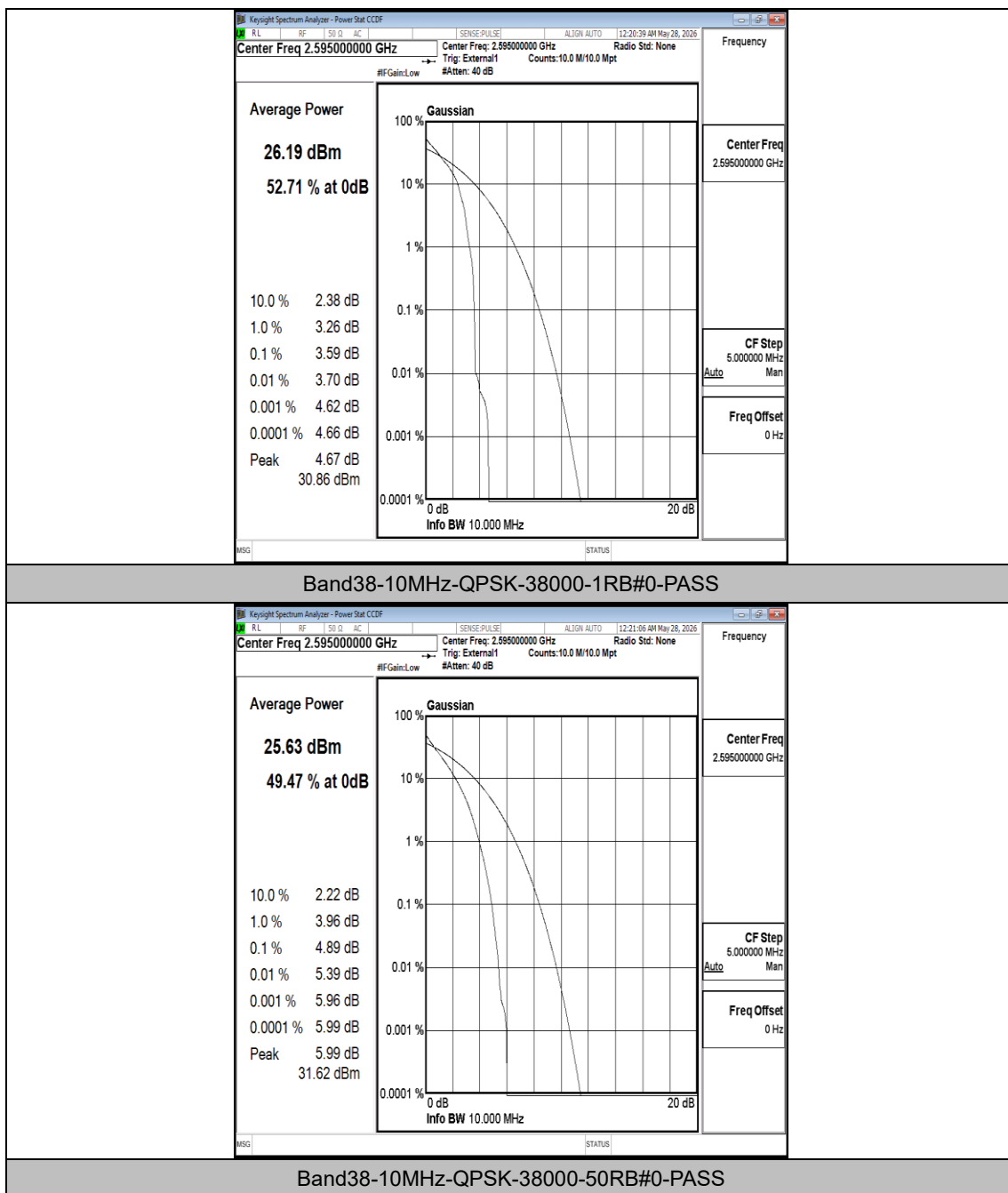


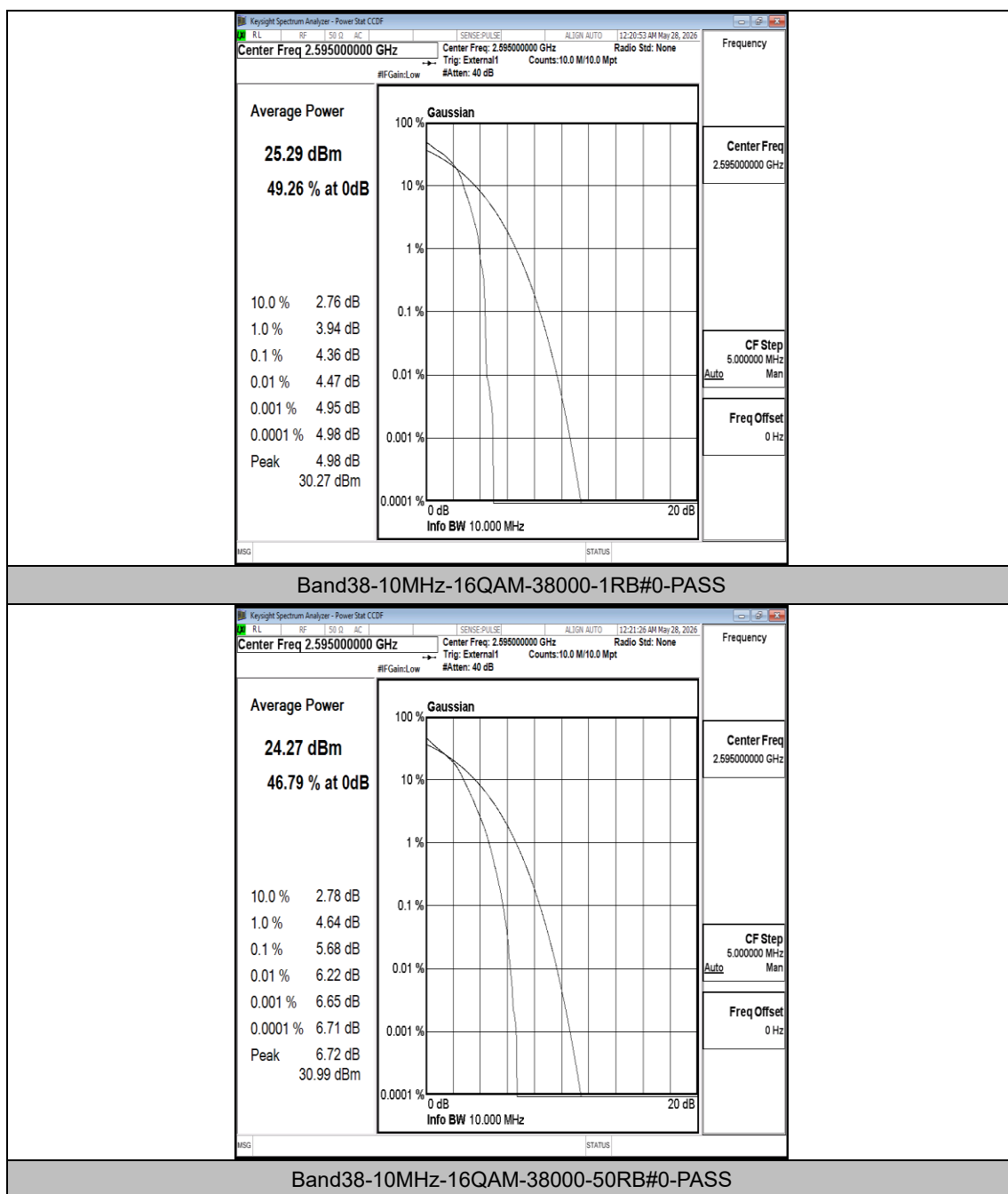


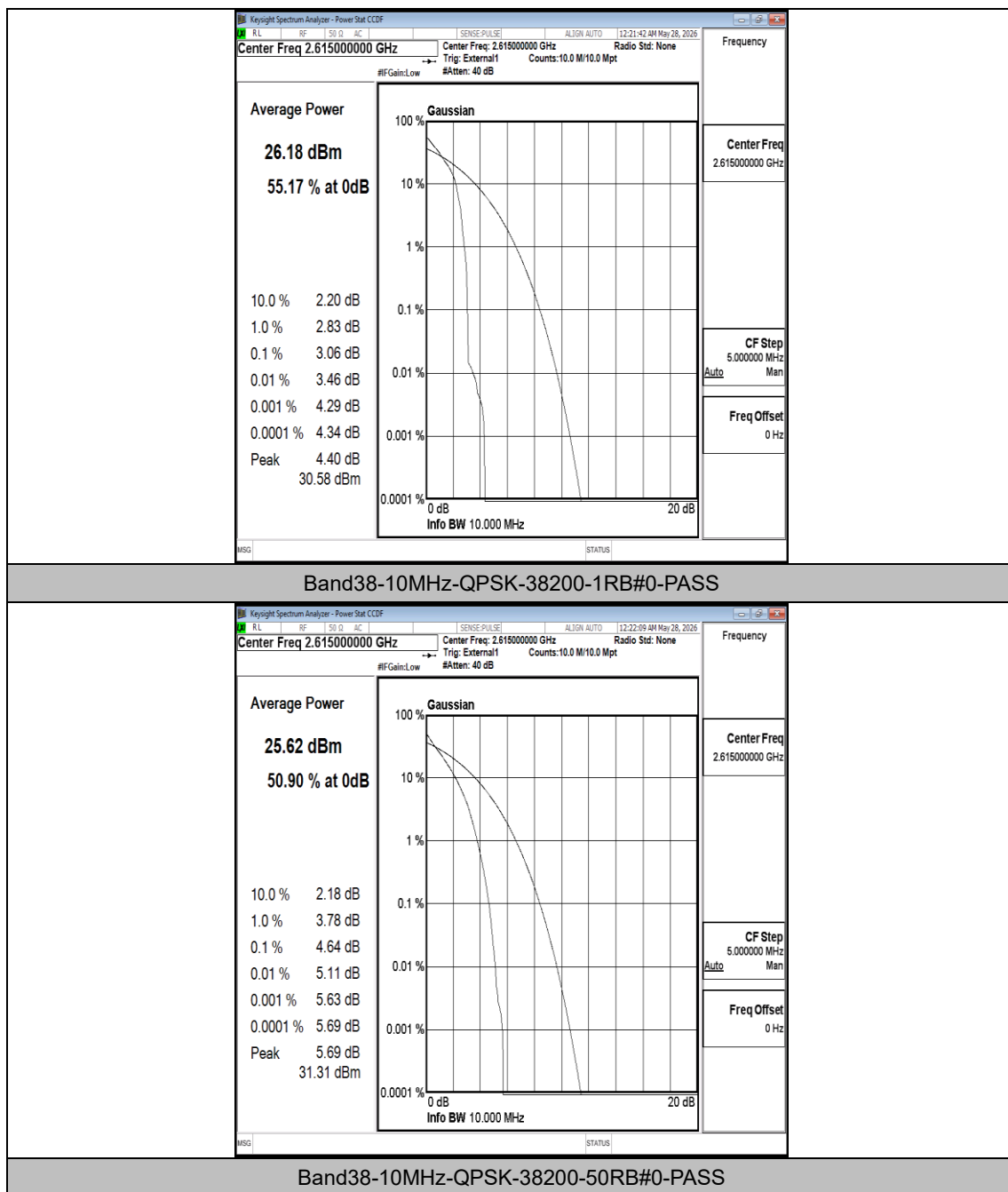


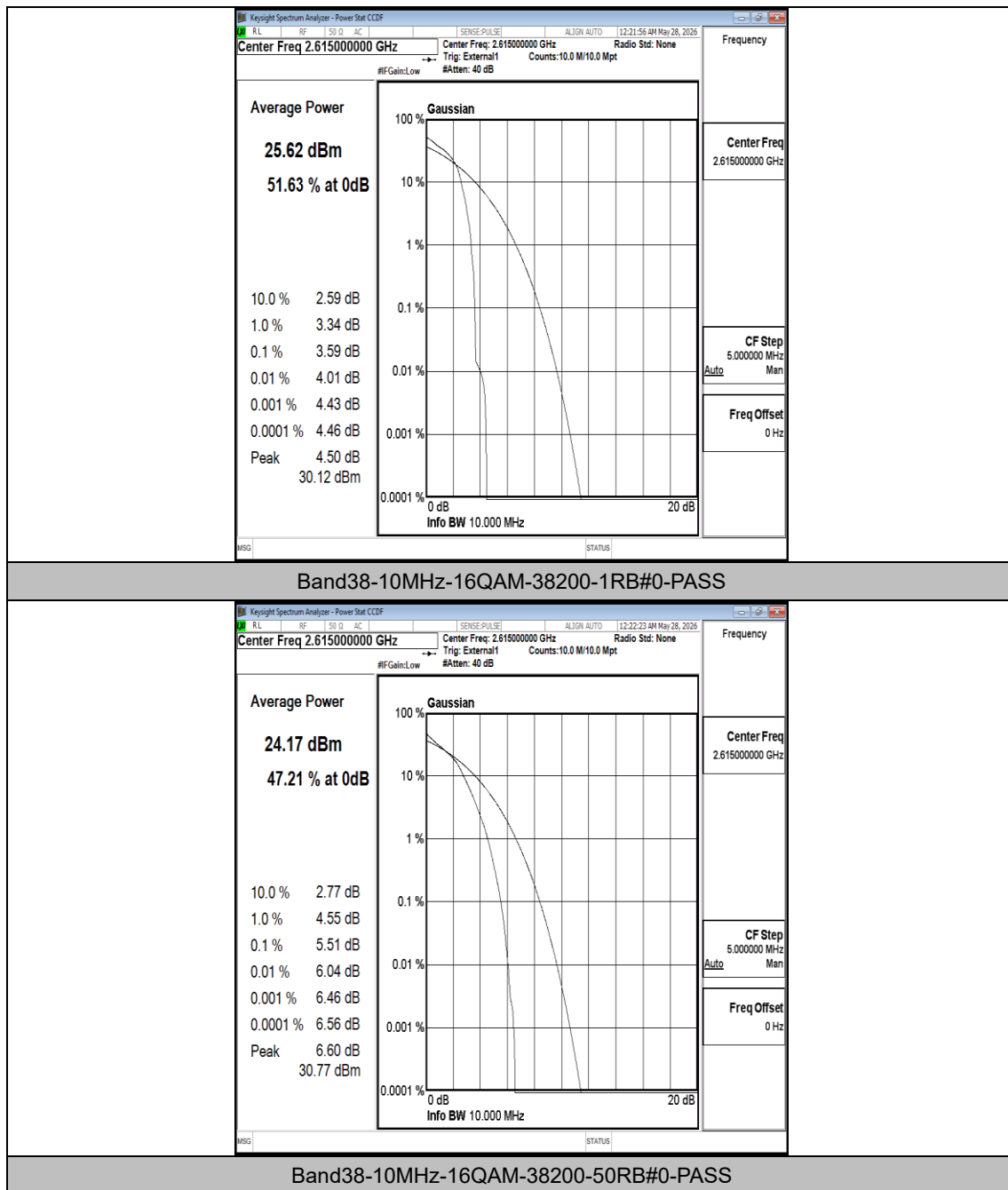


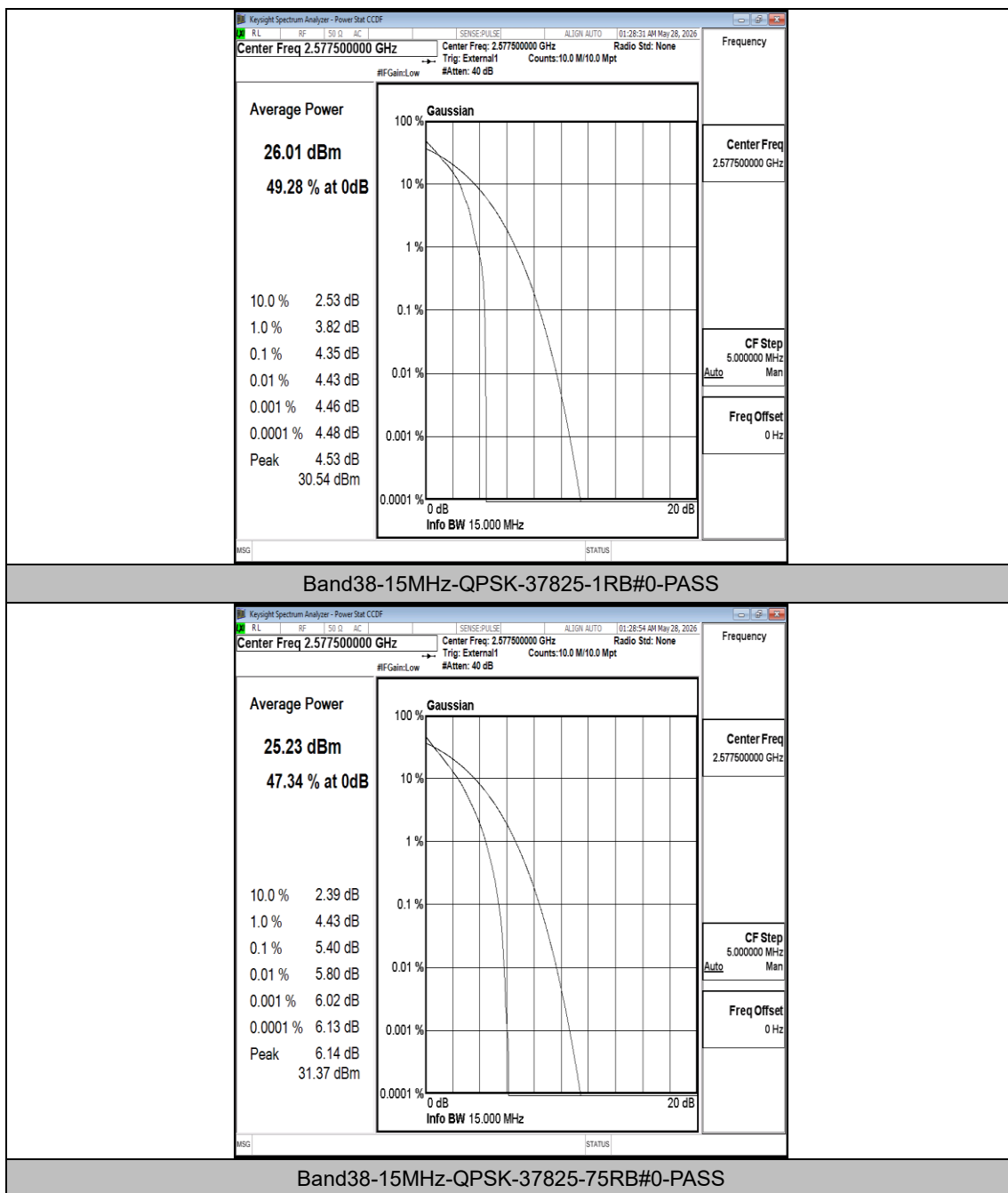


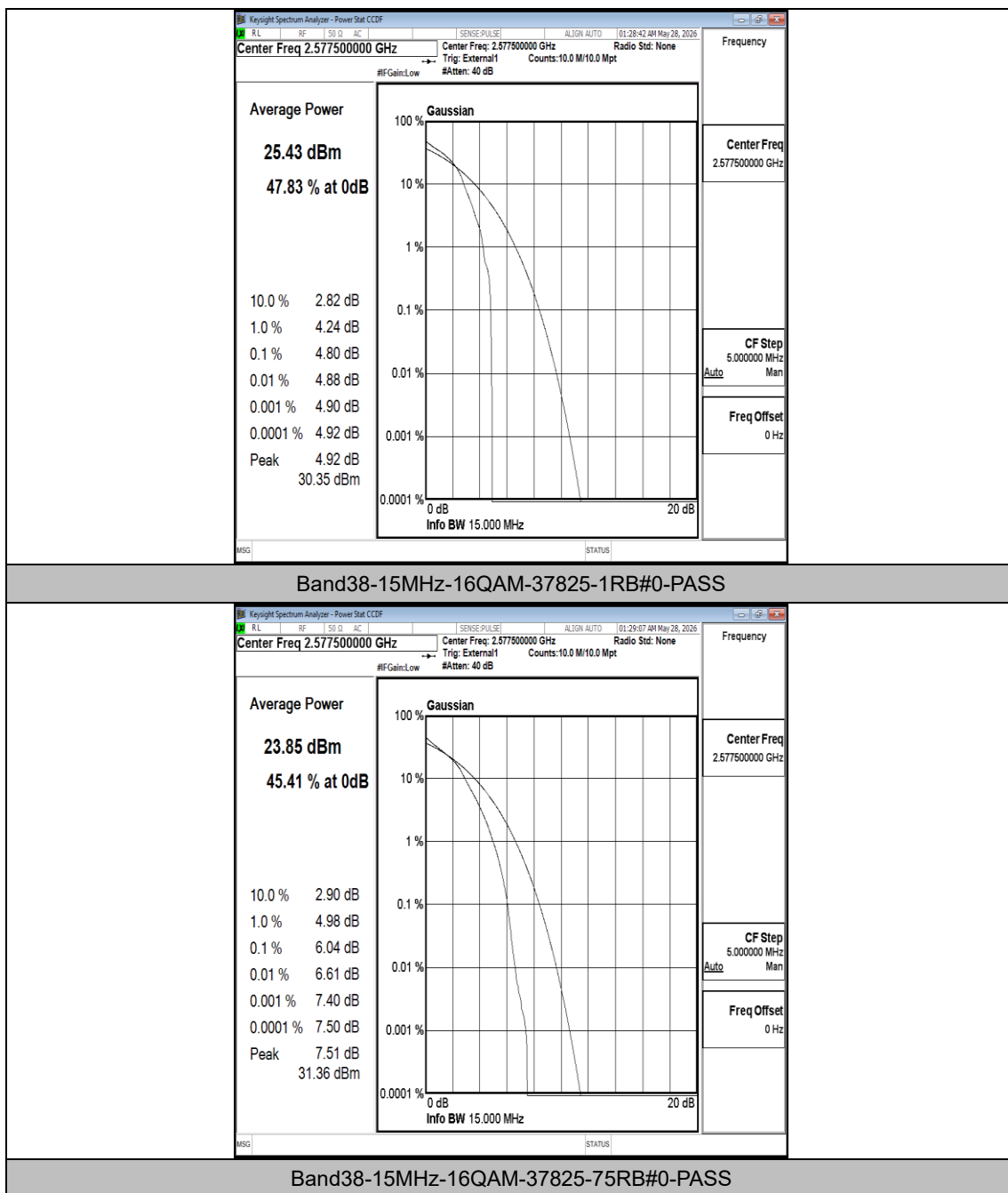


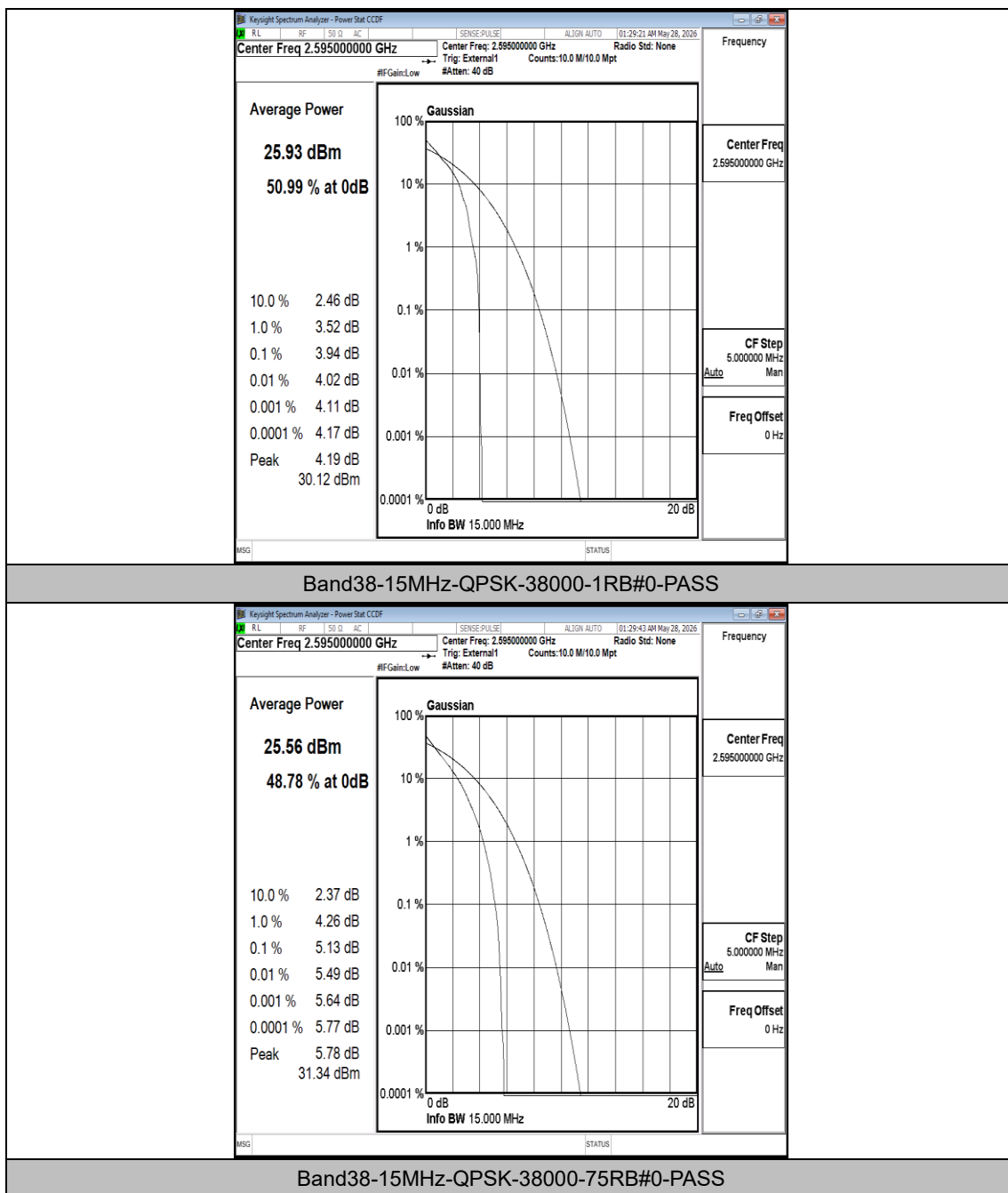


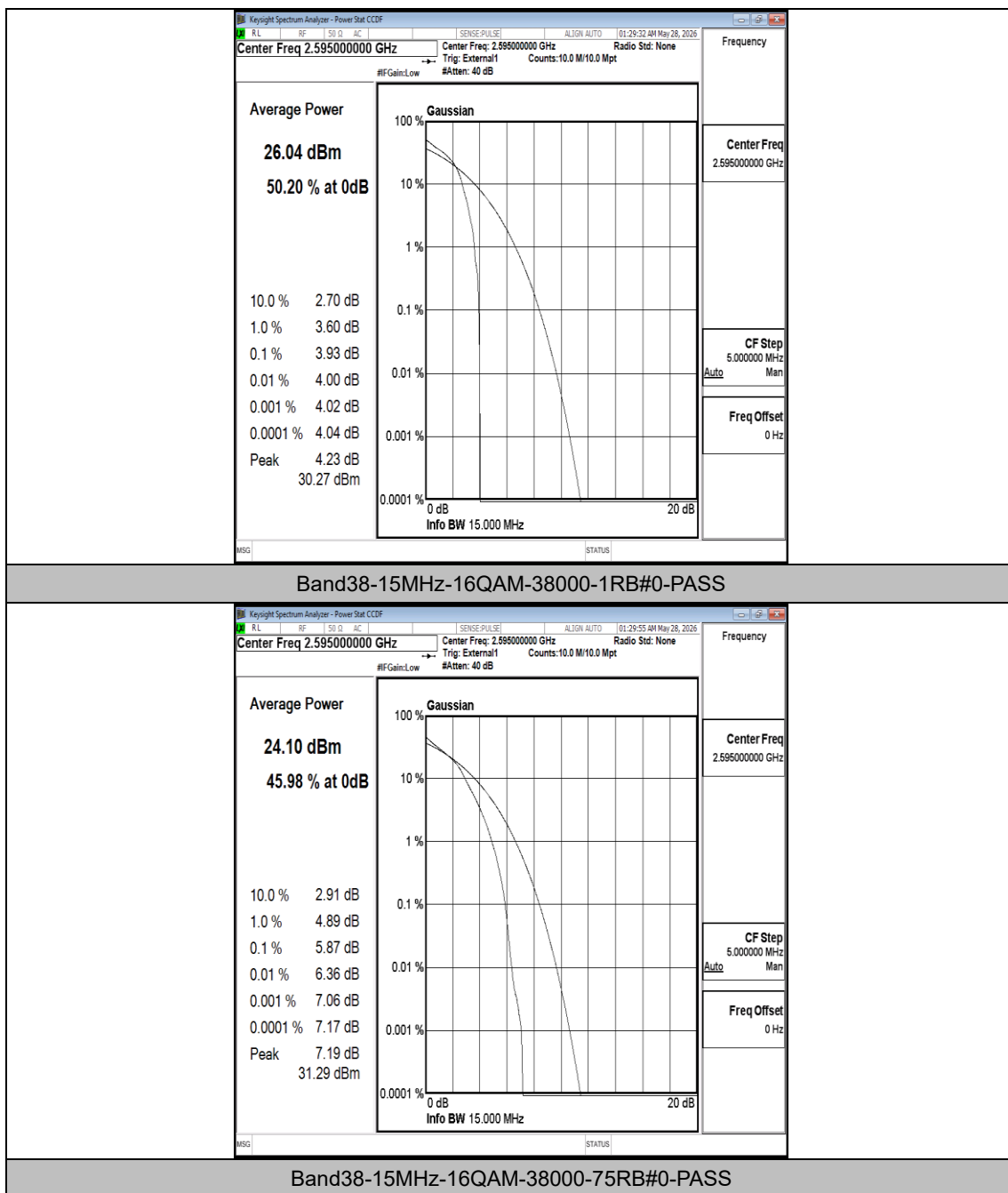


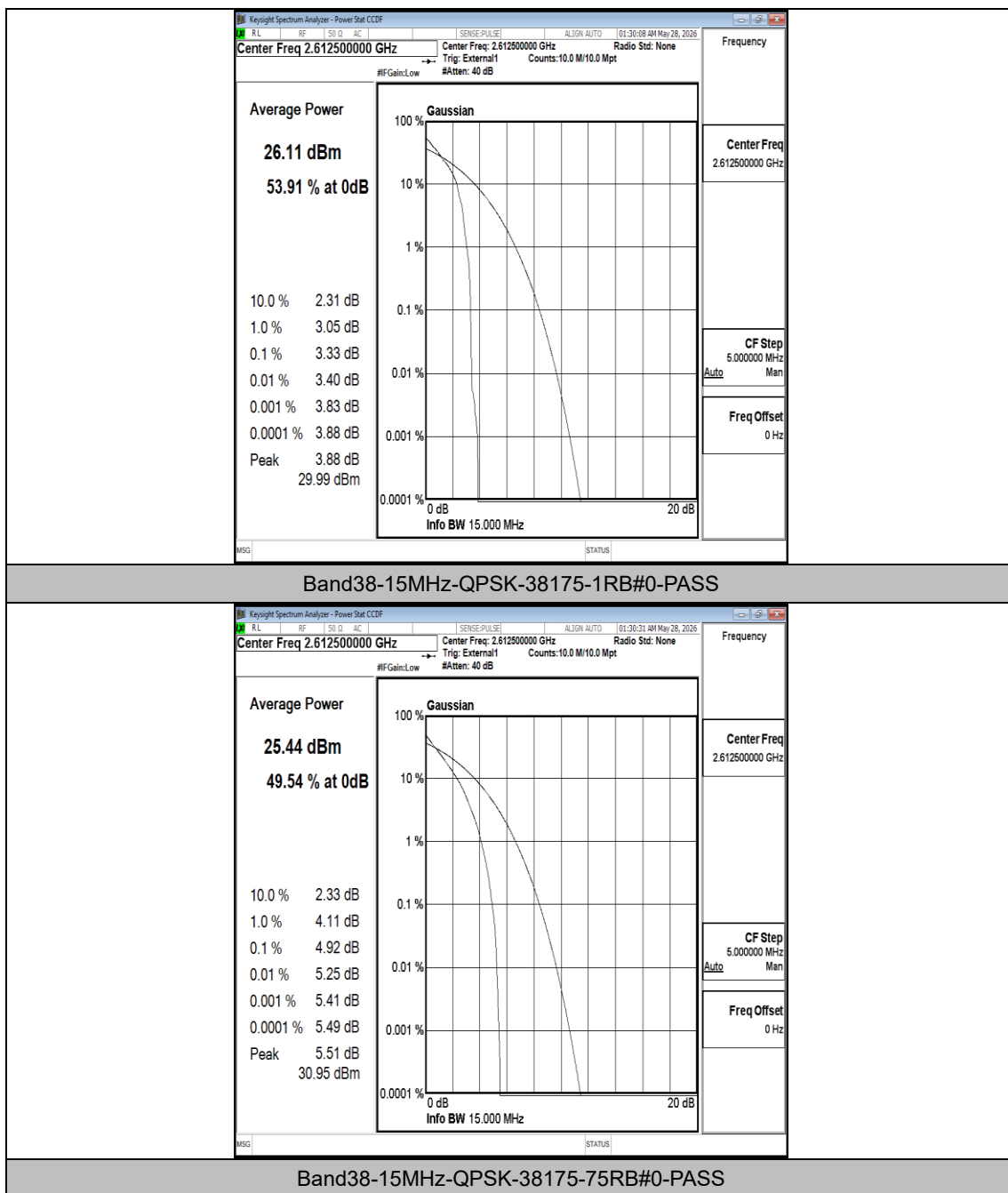


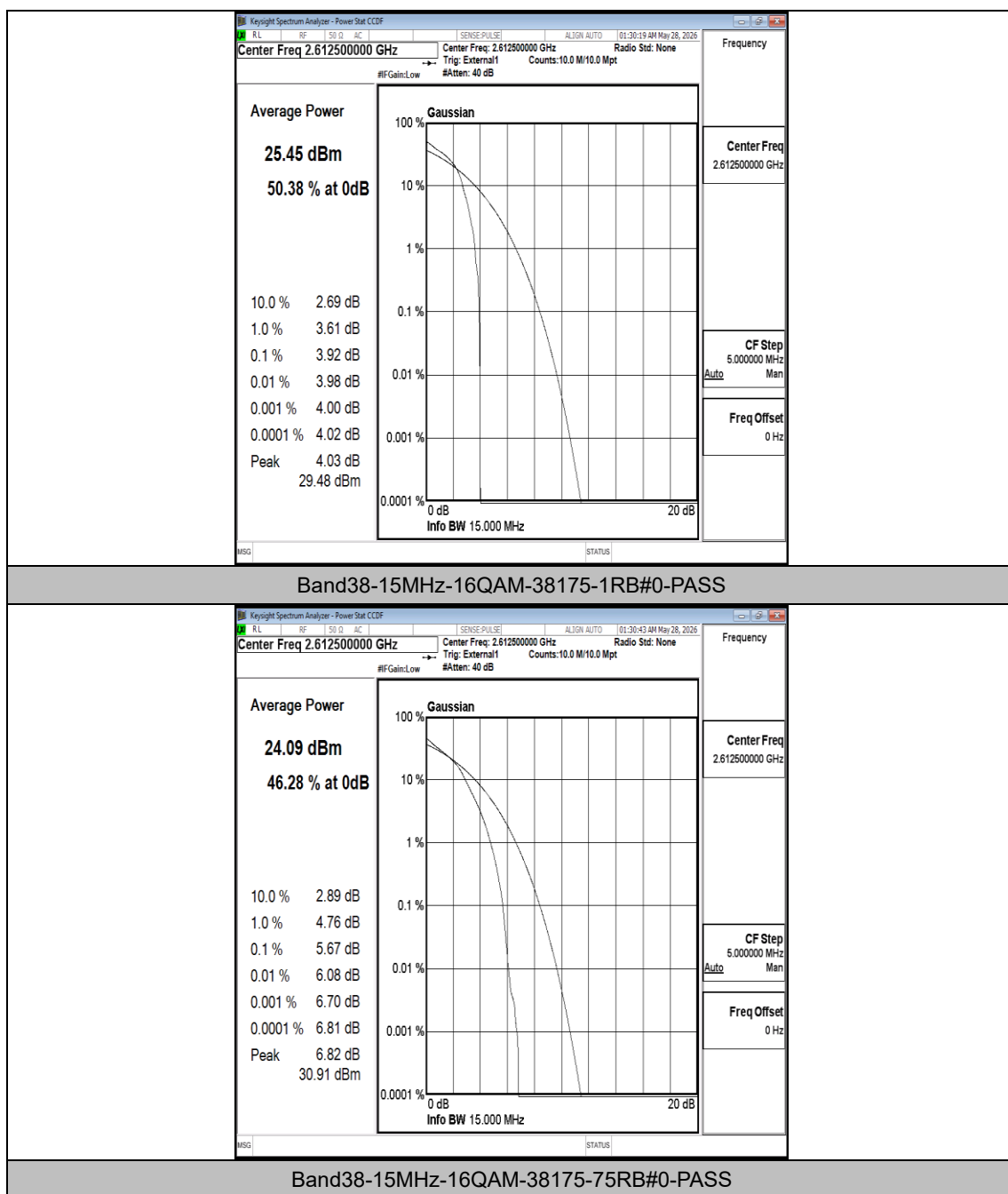


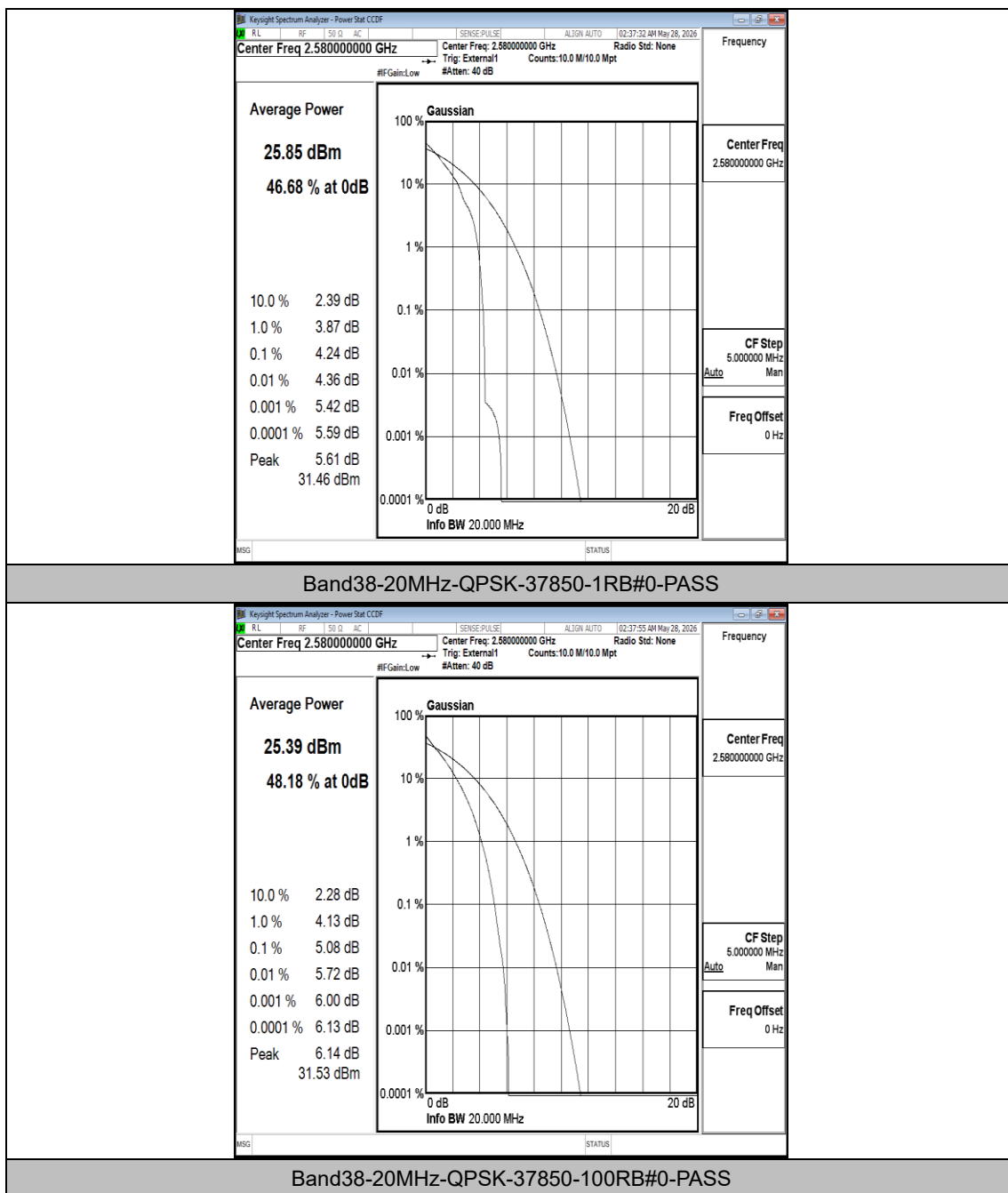


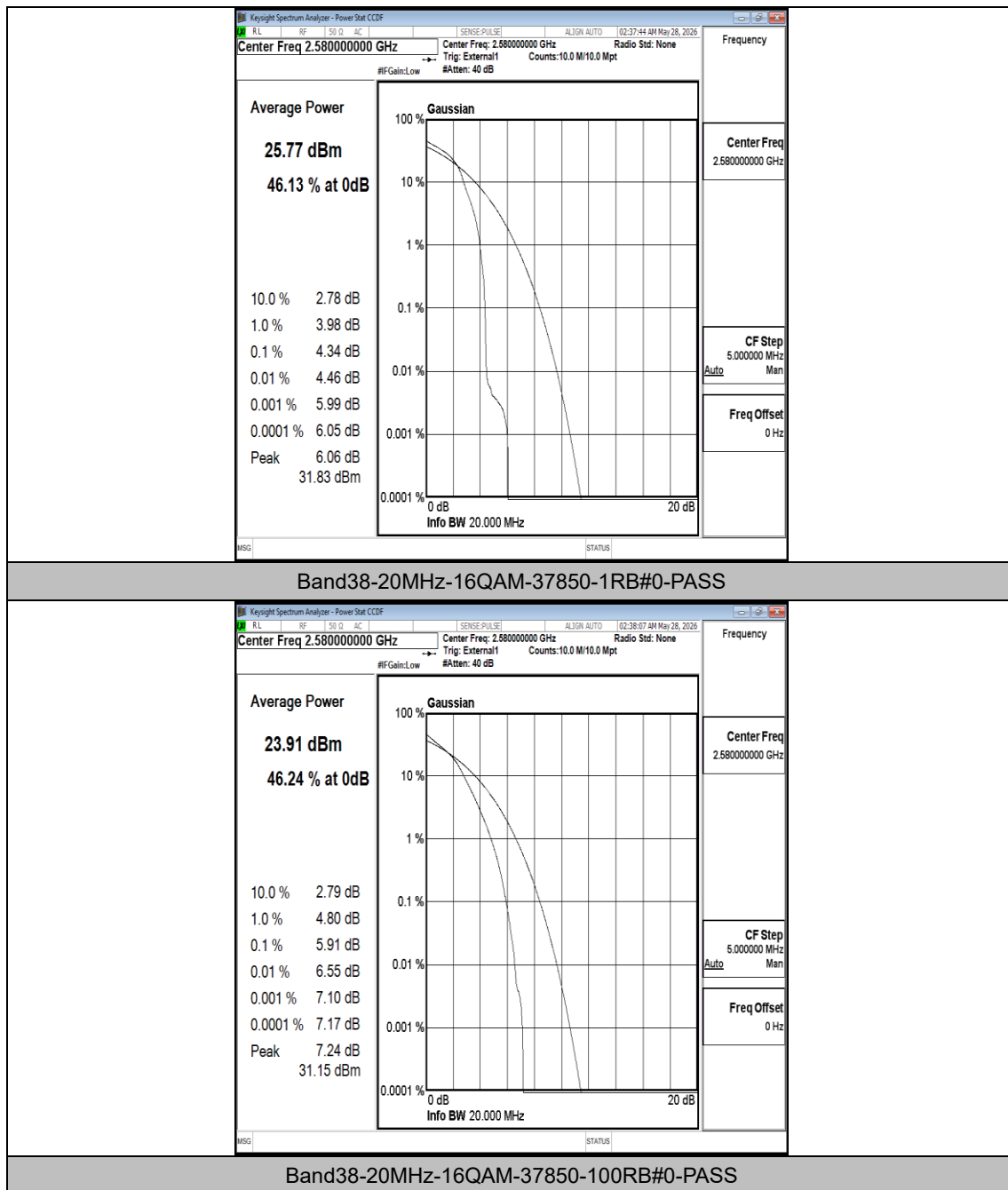


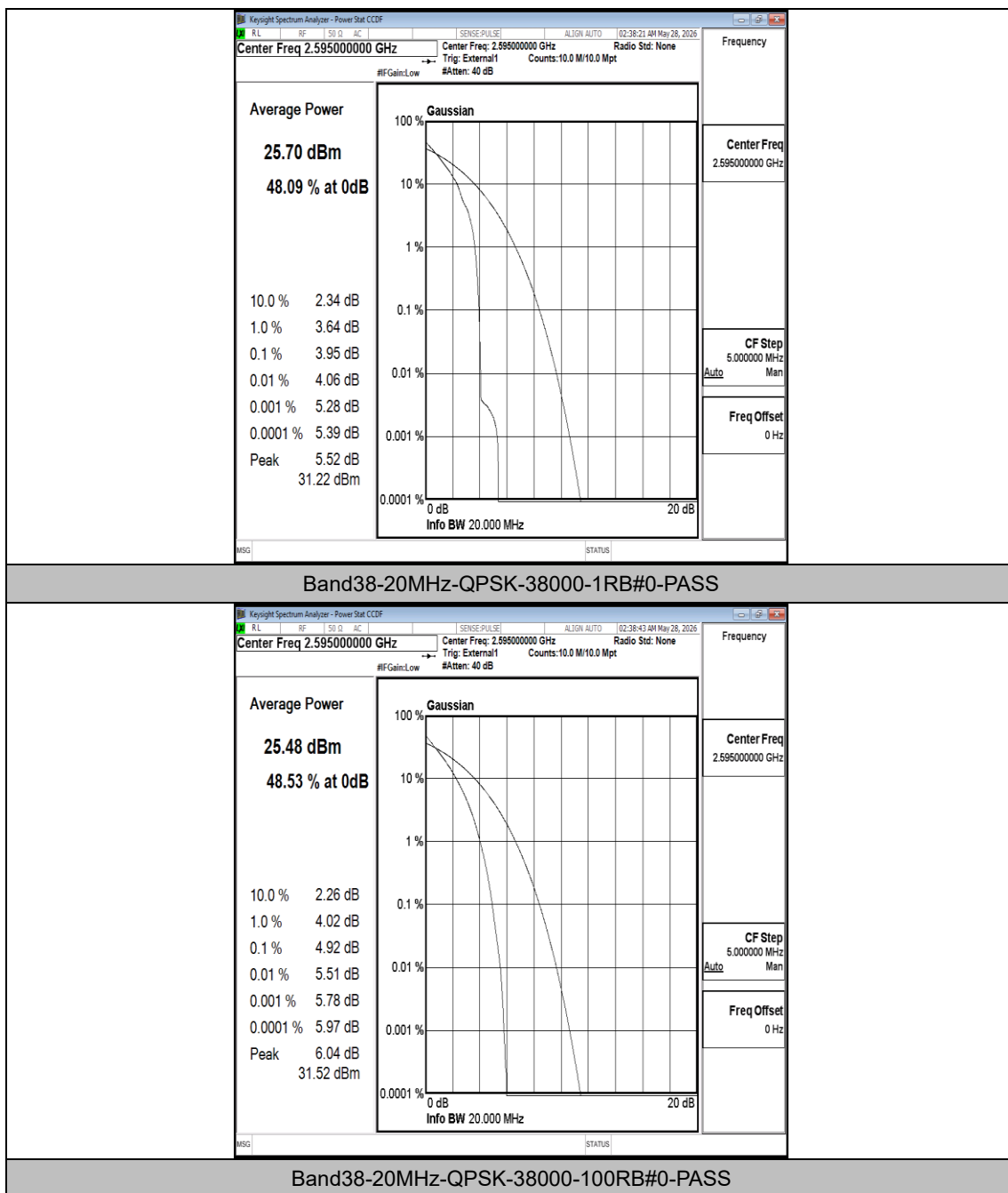


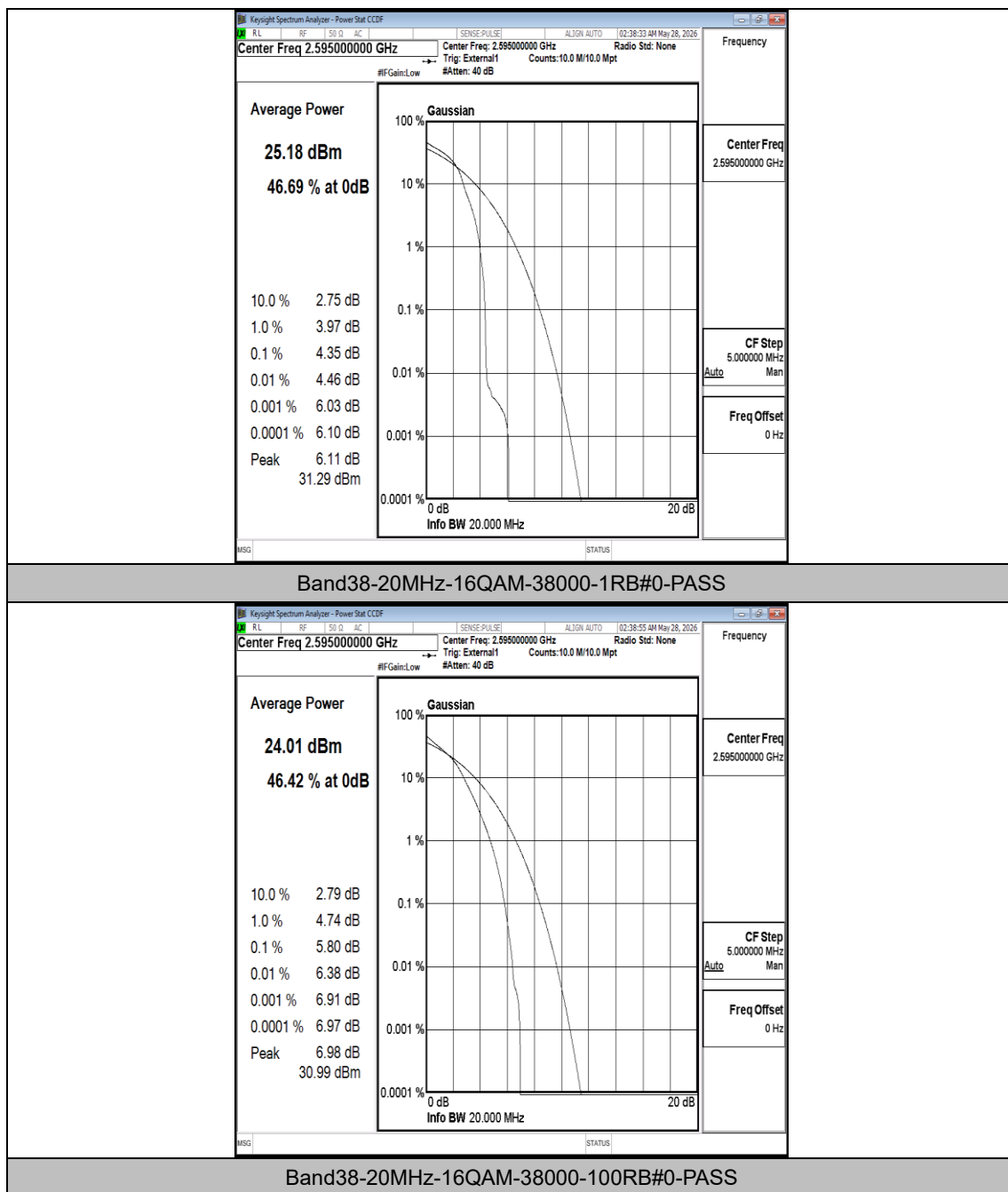


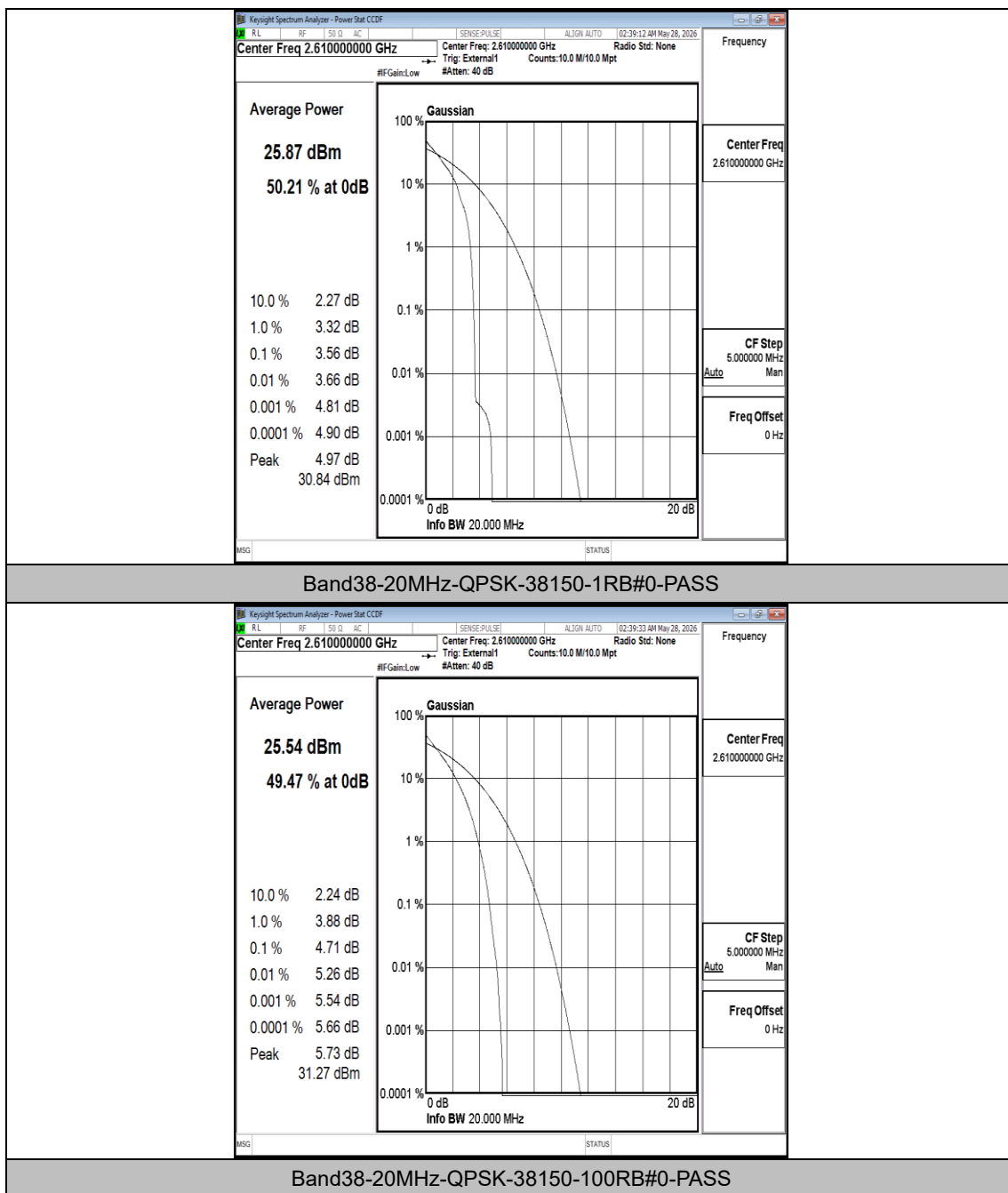


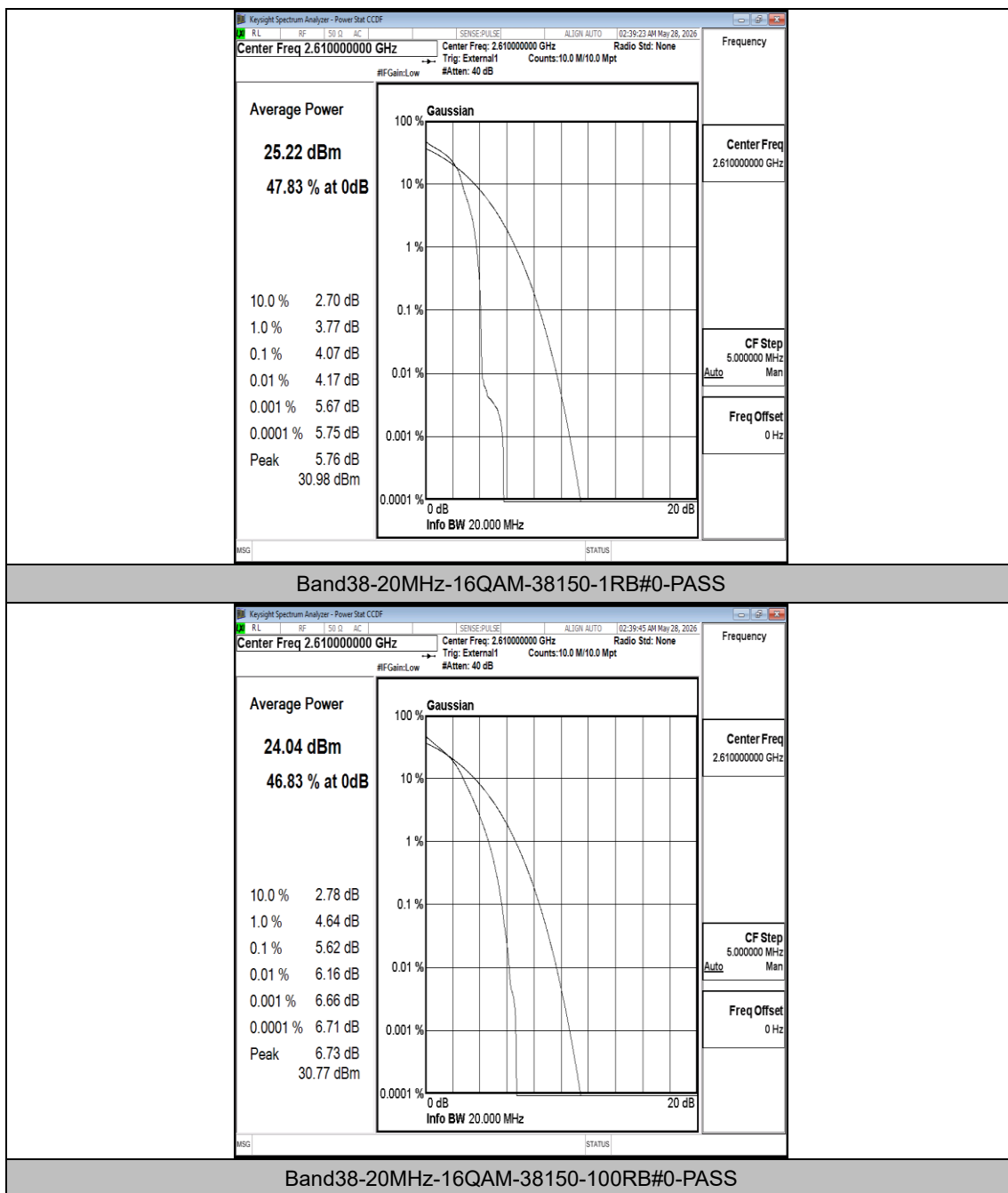












P.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5068	5.082	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4946	4.994	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5111	5.101	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5016	4.986	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.5108	5.145	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4994	5.034	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9920	9.883	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9864	10.14	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9994	10.75	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9849	9.892	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.0031	10.75	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9940	10.29	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.549	14.90	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.503	16.29	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.519	15.51	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.517	15.35	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.503	15.79	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.509	14.98	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.957	20.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.964	20.29	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.974	19.67	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.970	20.18	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.998	19.64	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.957	20.44	PASS

Test Graphs

