

Appendix J: Test Data for E-UTRA Band 5

Product Name: Smart Phone

Test Model: ULTRA S26

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

J.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	24.31	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.59	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.40	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.47	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.50	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.37	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	24.39	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.30	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.84	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.28	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.88	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.62	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.65	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.30	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.00	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.95	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.22	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.94	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.03	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.07	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	24.07	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	24.46	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.14	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.80	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.19	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.40	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.40	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.98	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.02	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.99	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.18	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.13	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.99	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	24.02	PASS

Band5	1.4MHz	16QAM	20643	1RB#0	24.56	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	25.03	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	24.34	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.19	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.80	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.17	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	23.01	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.40	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.59	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.37	PASS
Band5	3MHz	QPSK	20415	8RB#0	24.42	PASS
Band5	3MHz	QPSK	20415	8RB#4	24.50	PASS
Band5	3MHz	QPSK	20415	8RB#7	24.34	PASS
Band5	3MHz	QPSK	20415	15RB#0	24.41	PASS
Band5	3MHz	16QAM	20415	1RB#0	24.03	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.87	PASS
Band5	3MHz	16QAM	20415	1RB#14	24.01	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.39	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.32	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.32	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.19	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.06	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.98	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.11	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.93	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.94	PASS
Band5	3MHz	QPSK	20525	8RB#7	24.05	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.90	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.51	PASS
Band5	3MHz	16QAM	20525	1RB#8	24.88	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.63	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.90	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.92	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.91	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.08	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.10	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.99	PASS
Band5	3MHz	QPSK	20635	8RB#0	24.01	PASS
Band5	3MHz	QPSK	20635	8RB#4	24.04	PASS
Band5	3MHz	QPSK	20635	8RB#7	24.06	PASS

Band5	3MHz	QPSK	20635	15RB#0	24.01	PASS
Band5	3MHz	16QAM	20635	1RB#0	24.01	PASS
Band5	3MHz	16QAM	20635	1RB#8	24.97	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.82	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.65	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.54	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.83	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.64	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.38	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.27	PASS
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Band5	5MHz	QPSK	20425	12RB#0	24.45	PASS
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Band5	5MHz	QPSK	20425	12RB#13	24.35	PASS
Band5	5MHz	QPSK	20425	25RB#0	24.36	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.63	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.73	PASS
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Band5	5MHz	16QAM	20425	12RB#0	23.41	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.22	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.20	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.26	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.02	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.03	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.98	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.93	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.94	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.99	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.90	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.76	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.98	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.54	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.52	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.81	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.86	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.89	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.94	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.96	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.01	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.85	PASS
Band5	5MHz	QPSK	20625	12RB#6	24.17	PASS

Band5	5MHz	QPSK	20625	12RB#13	24.15	PASS
Band5	5MHz	QPSK	20625	25RB#0	24.08	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.14	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.99	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.37	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.79	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.69	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.64	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.70	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.28	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.37	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.95	PASS
Band5	10MHz	QPSK	20450	25RB#0	24.30	PASS
Band5	10MHz	QPSK	20450	25RB#12	24.12	PASS
Band5	10MHz	QPSK	20450	25RB#25	24.10	PASS
Band5	10MHz	QPSK	20450	50RB#0	24.16	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.27	PASS
Band5	10MHz	16QAM	20450	1RB#24	24.76	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.61	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.29	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.69	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.88	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.62	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.07	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.99	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.23	PASS
Band5	10MHz	QPSK	20525	25RB#0	24.07	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.99	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.91	PASS
Band5	10MHz	QPSK	20525	50RB#0	24.06	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.92	PASS
Band5	10MHz	16QAM	20525	1RB#24	24.07	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.83	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.54	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.93	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.88	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.90	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.77	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.99	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.95	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.98	PASS

Band5	10MHz	QPSK	20600	25RB#12	23.93	PASS
Band5	10MHz	QPSK	20600	25RB#25	24.11	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.78	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.55	PASS
Band5	10MHz	16QAM	20600	1RB#24	24.57	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.76	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.50	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.68	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.55	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.76	PASS

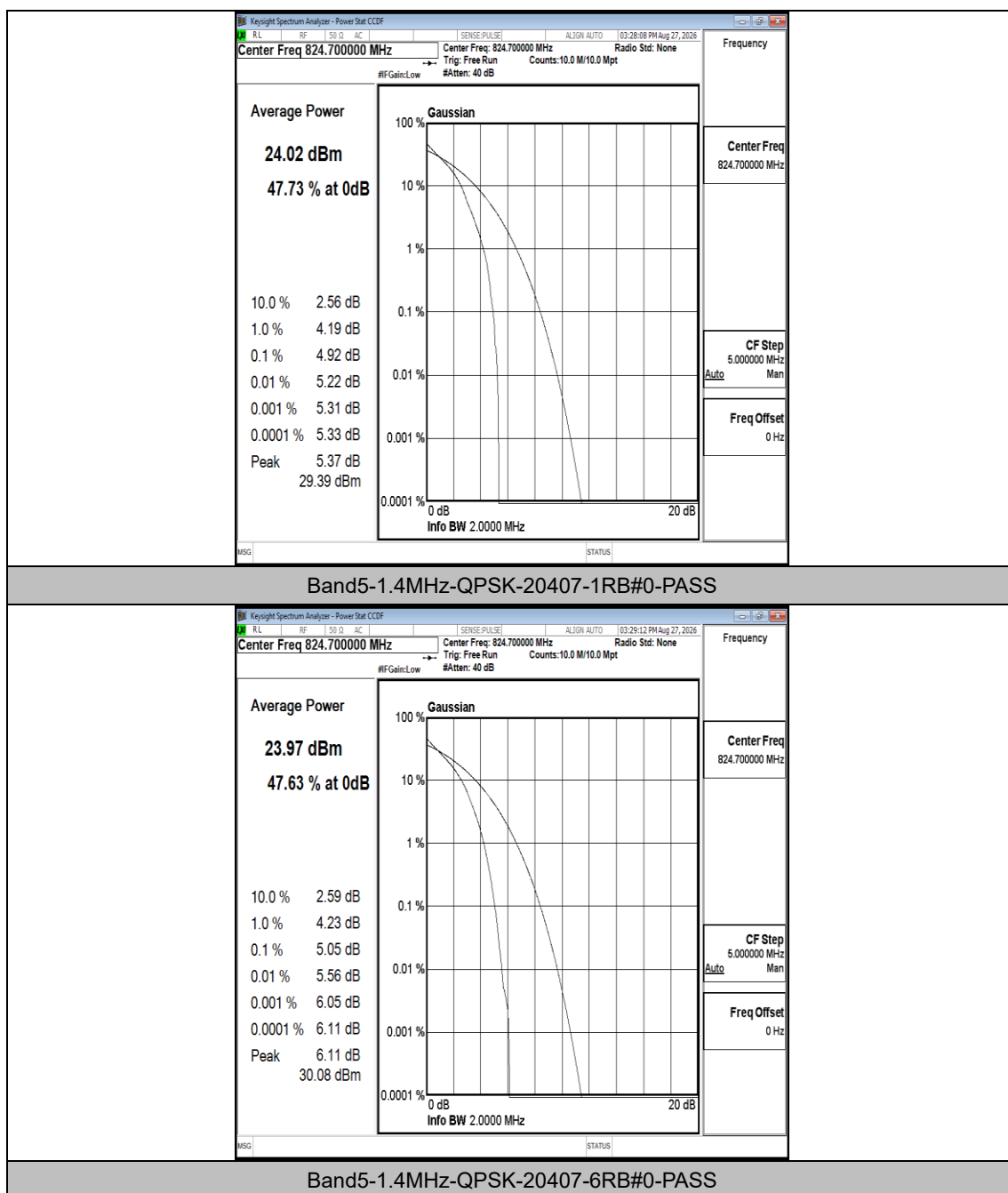
J.2 Peak-to-Average Ratio(CCDF)

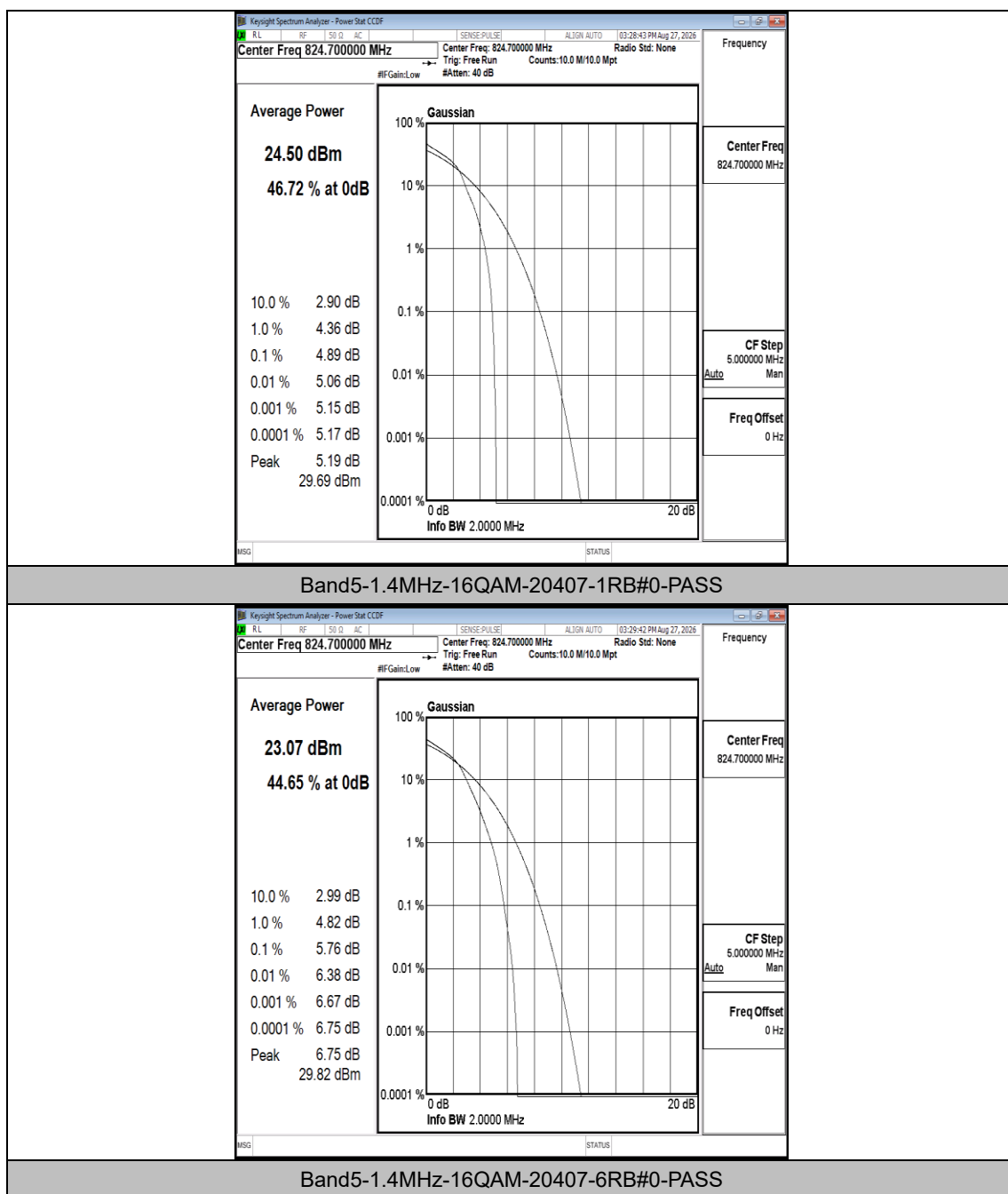
Test Result

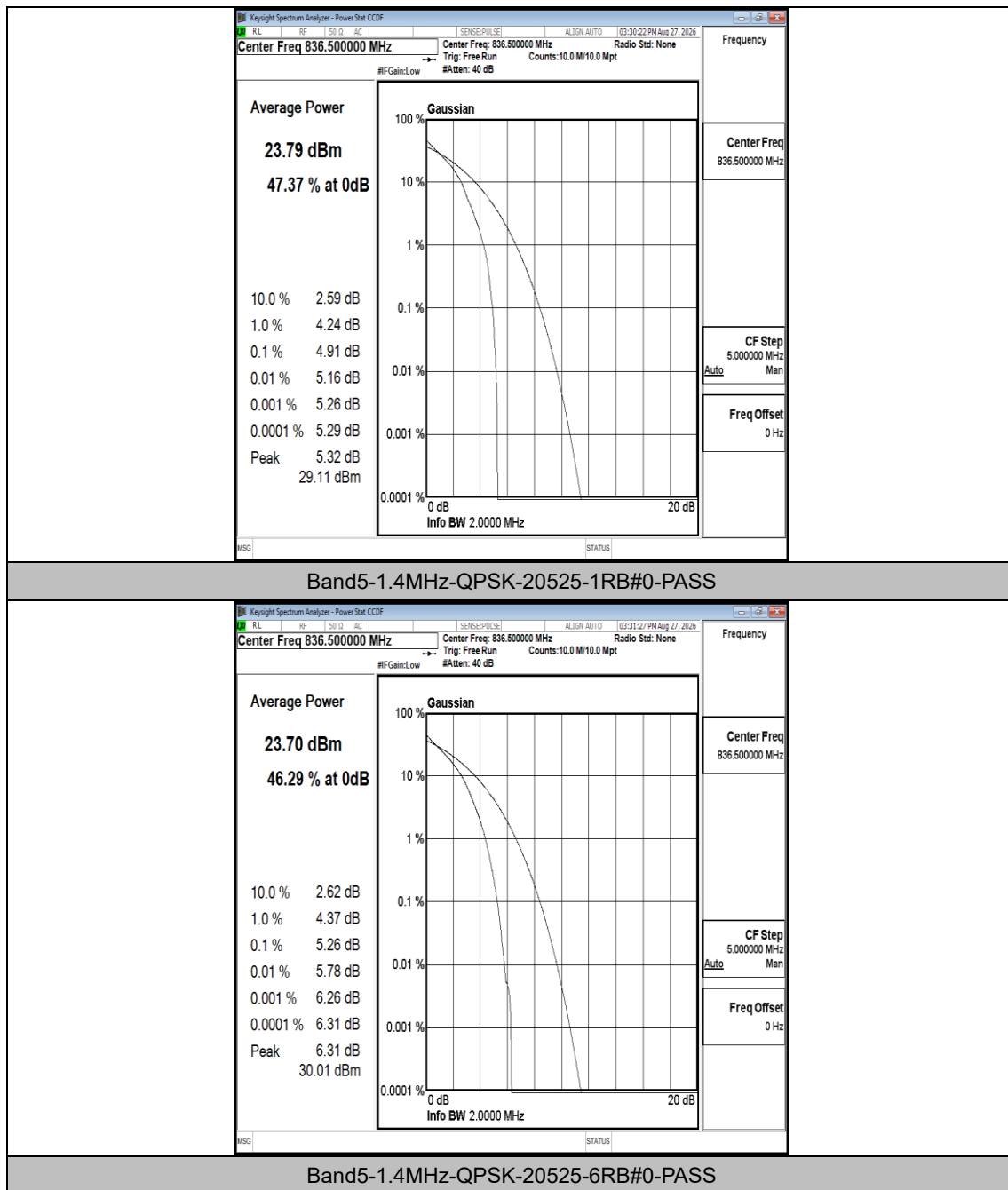
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.92	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.05	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	4.89	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.76	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.91	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.26	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.00	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.03	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.93	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.98	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	4.94	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.79	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.89	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.23	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.31	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.05	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	4.70	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.43	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.23	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.27	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	5.11	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.33	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.60	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.30	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.03	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.12	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.49	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	5.87	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.67	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.43	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.03	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.15	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.56	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.38	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.99	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.24	13	PASS

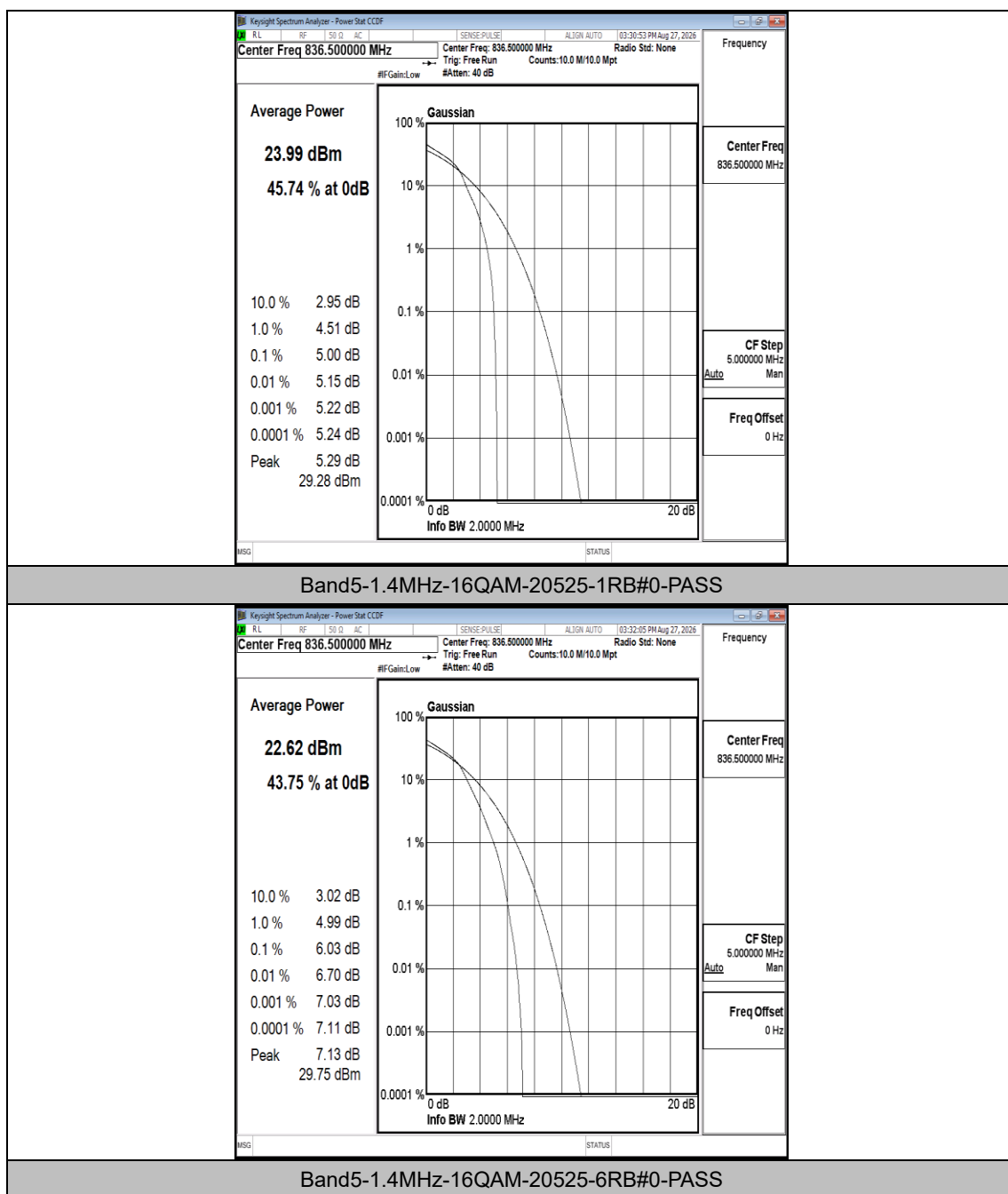
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Band5	10MHz	QPSK	20450	50RB#0	5.12	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.26	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.00	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.35	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.47	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	4.69	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.21	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.54	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.54	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	6.12	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.33	13	PASS

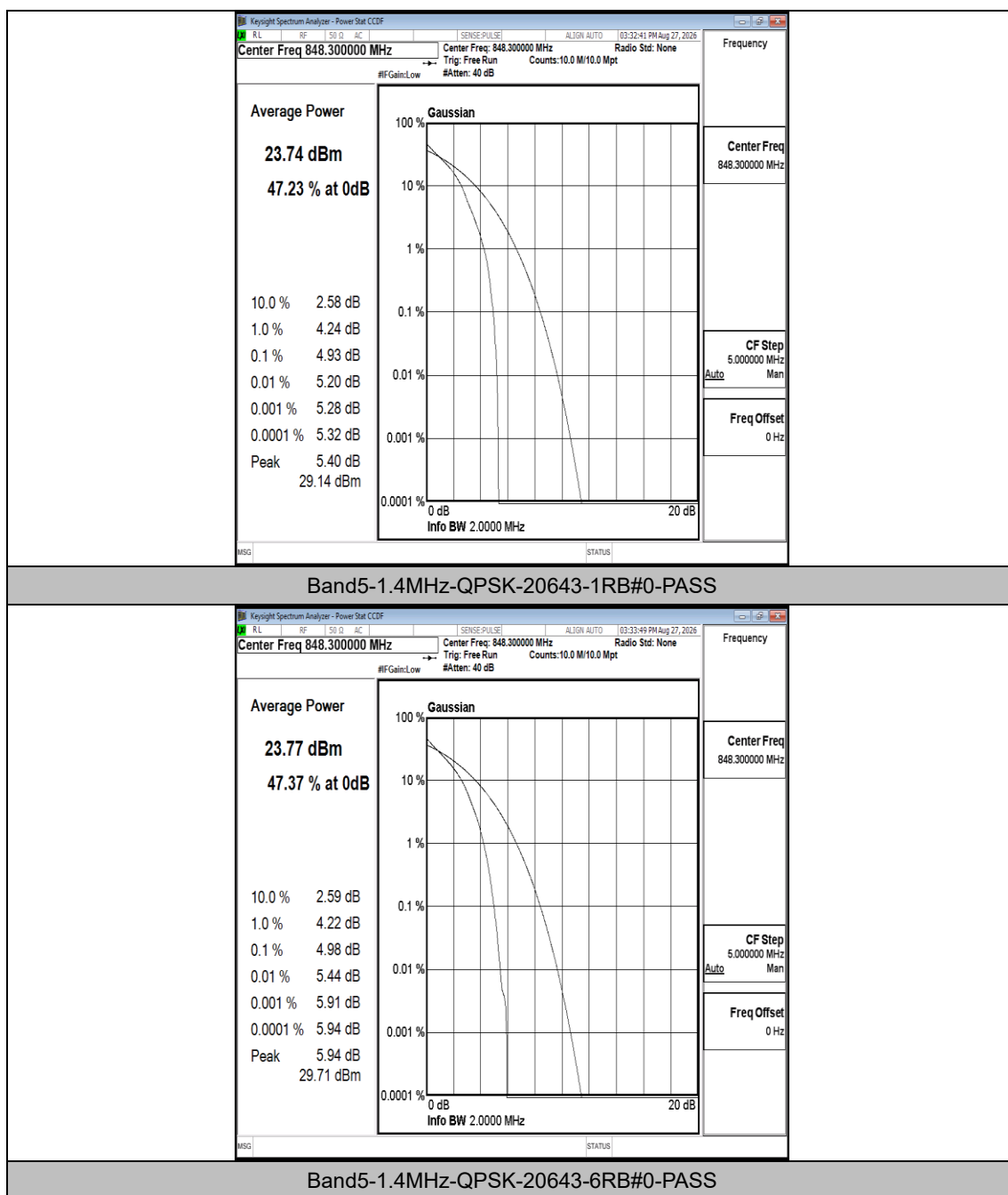
Test Graphs

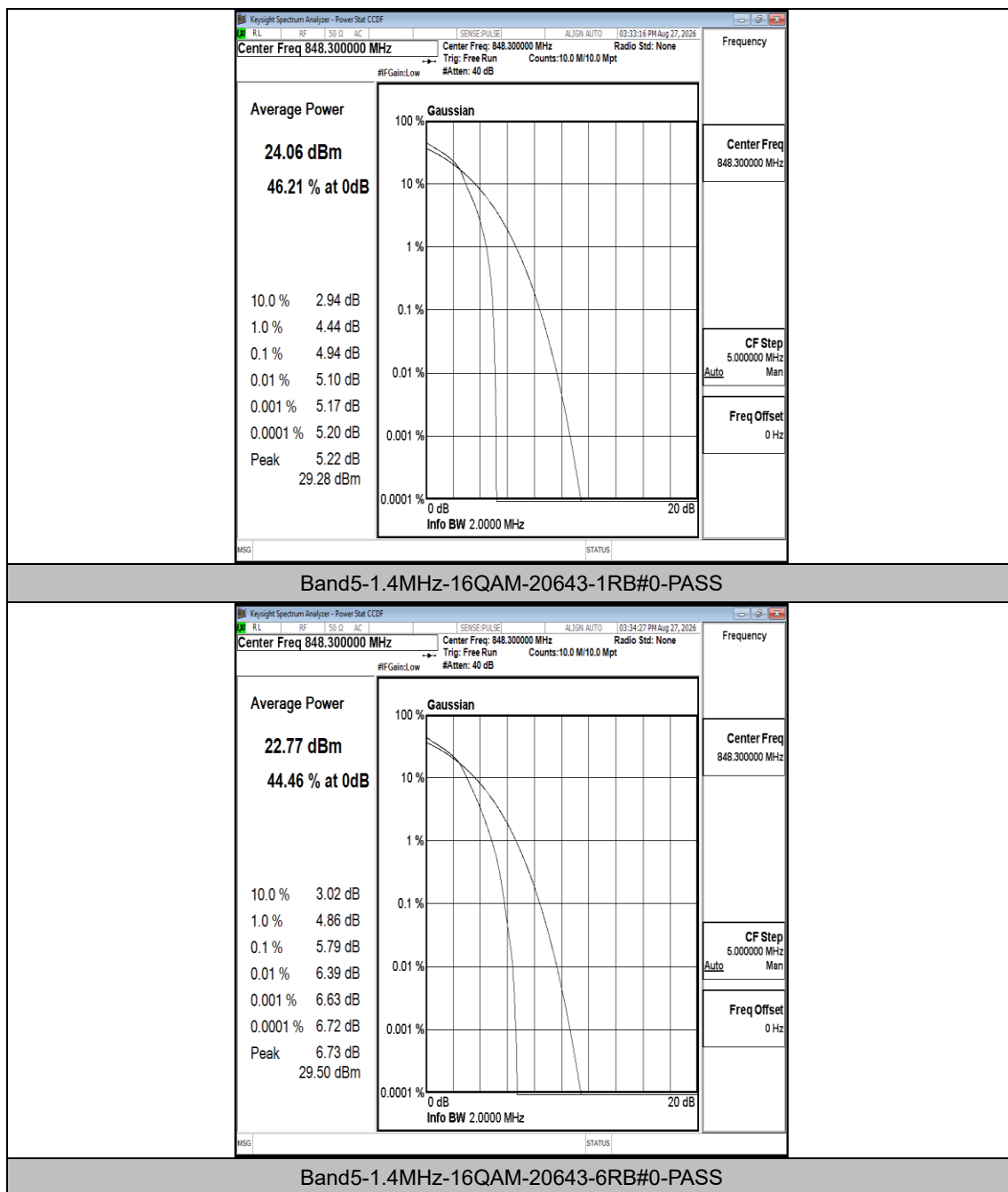


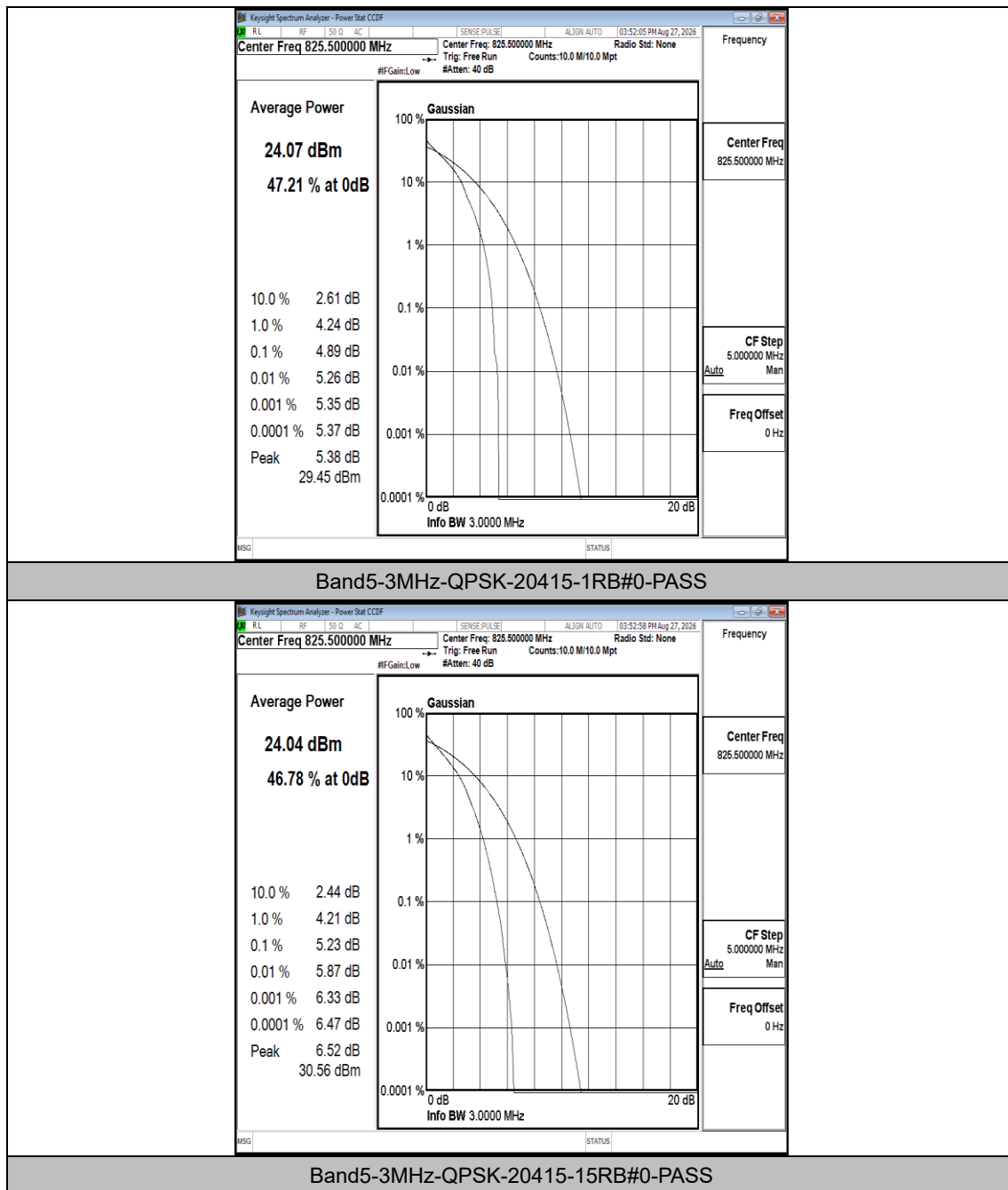


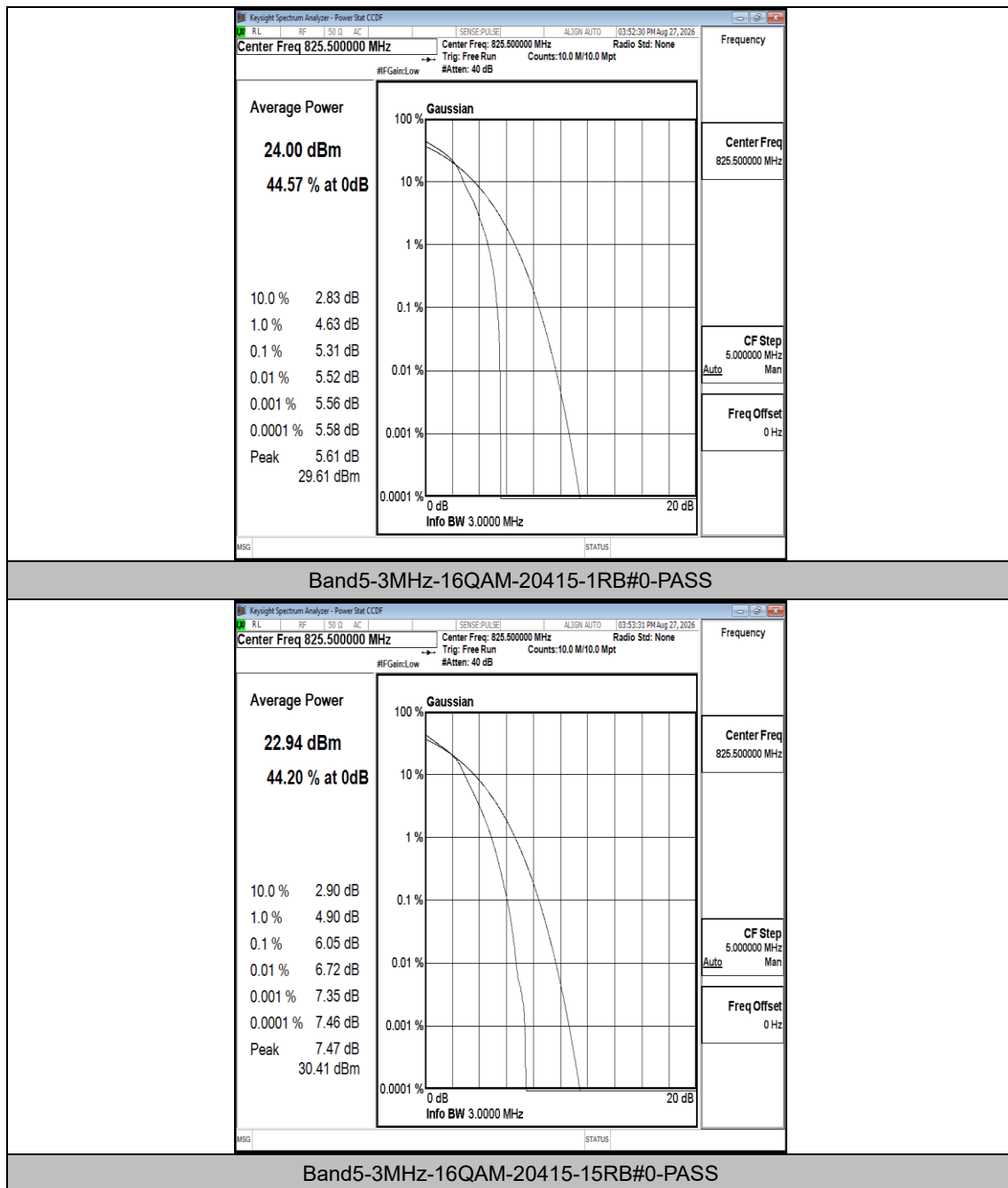


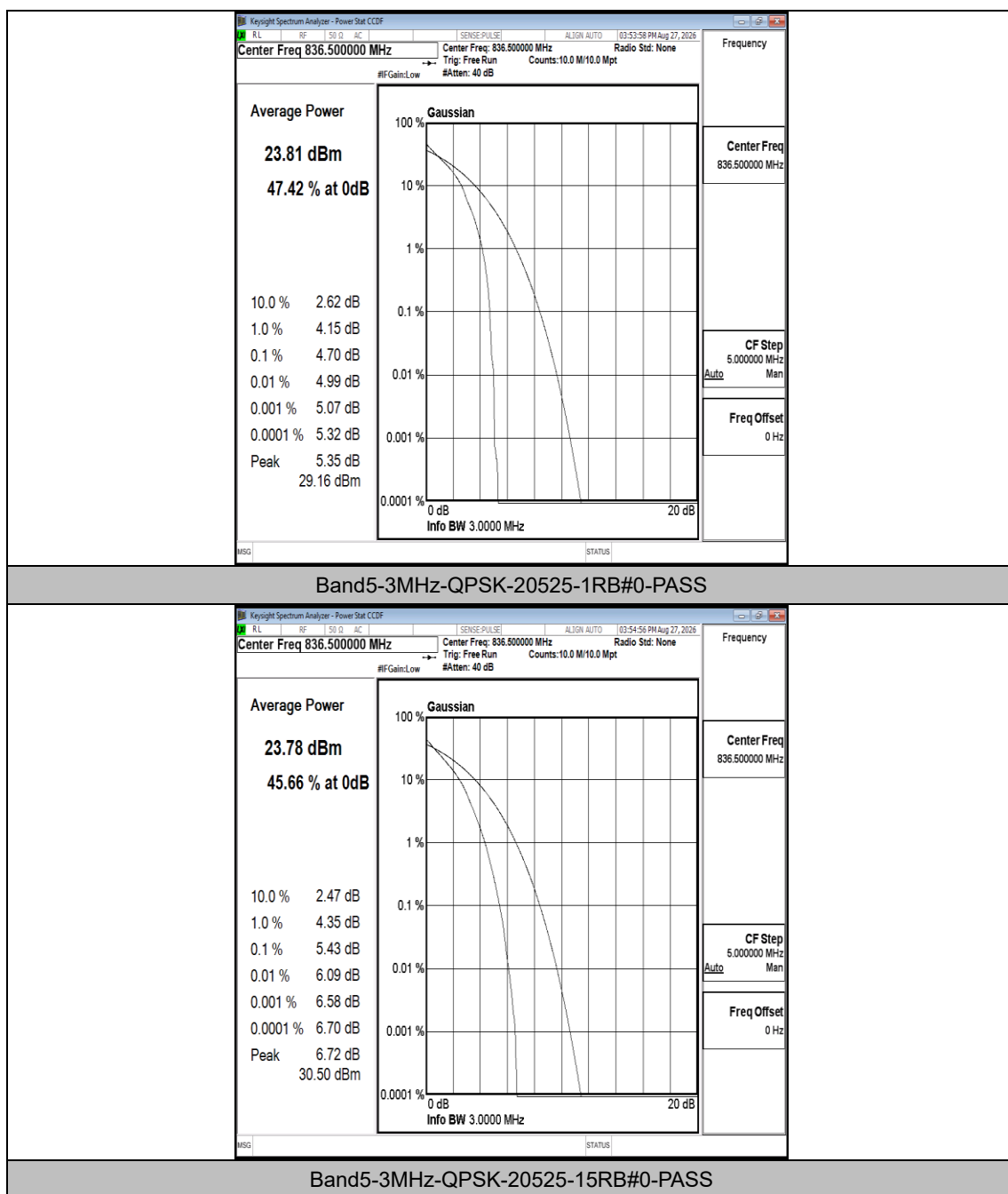


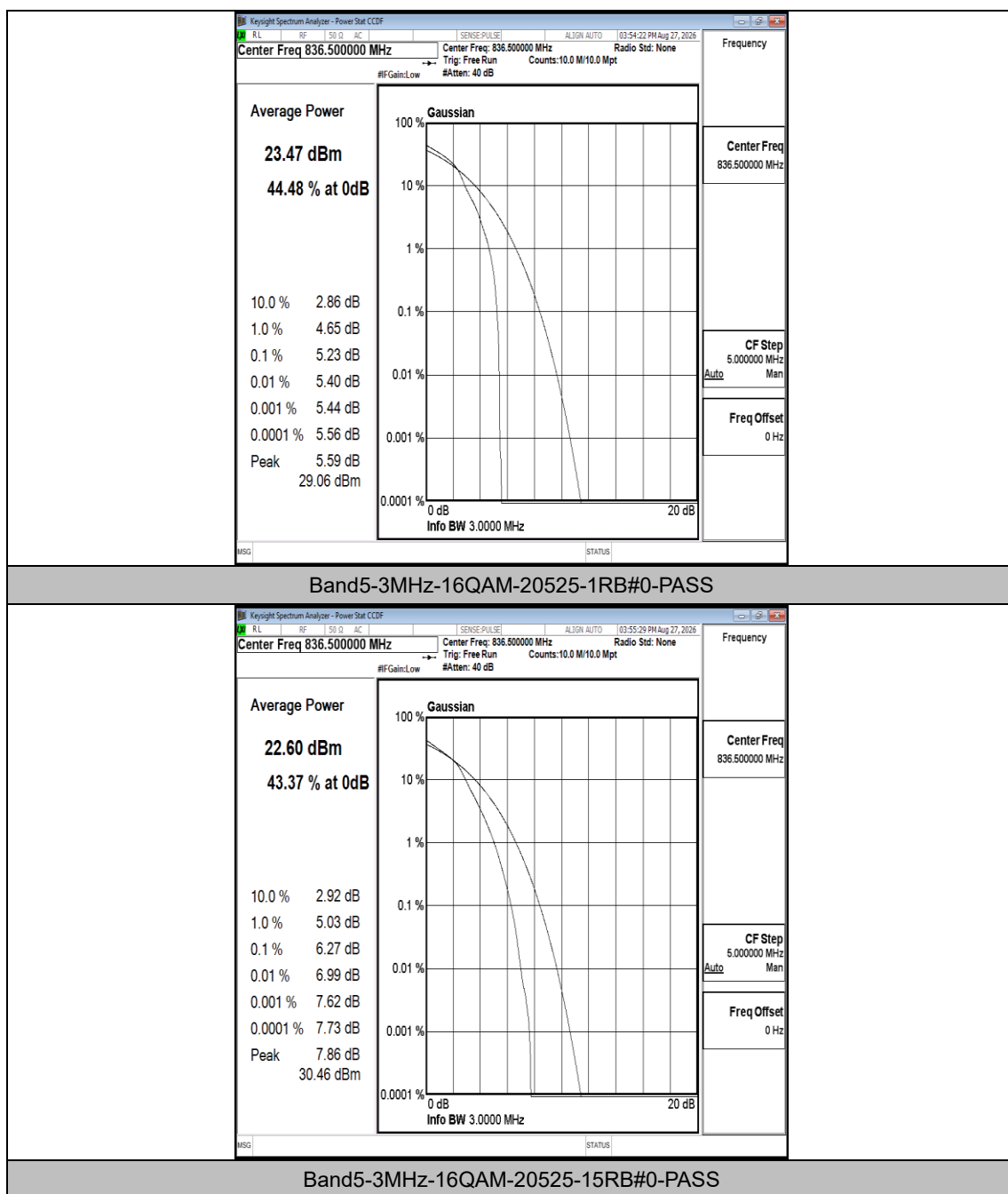


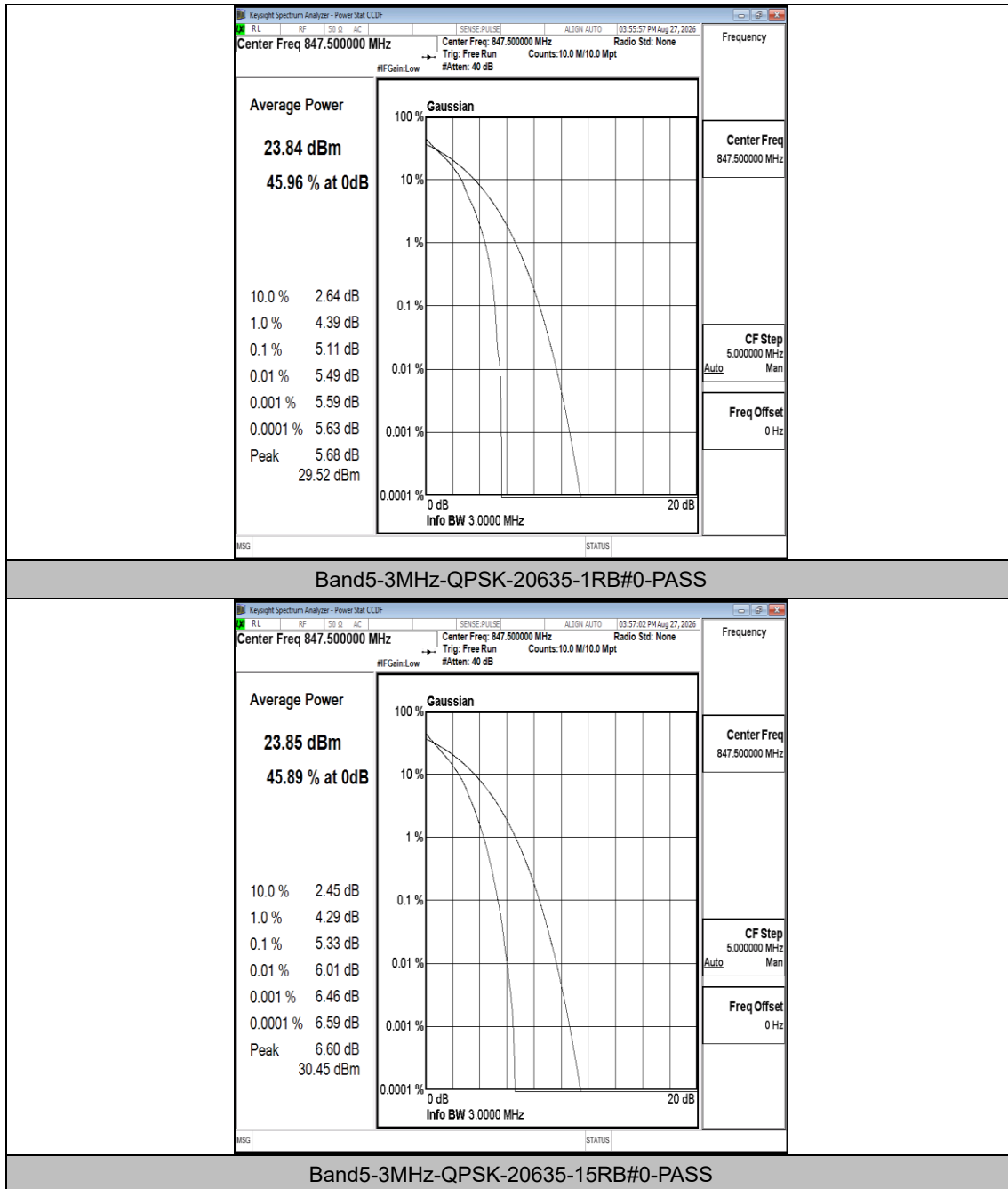


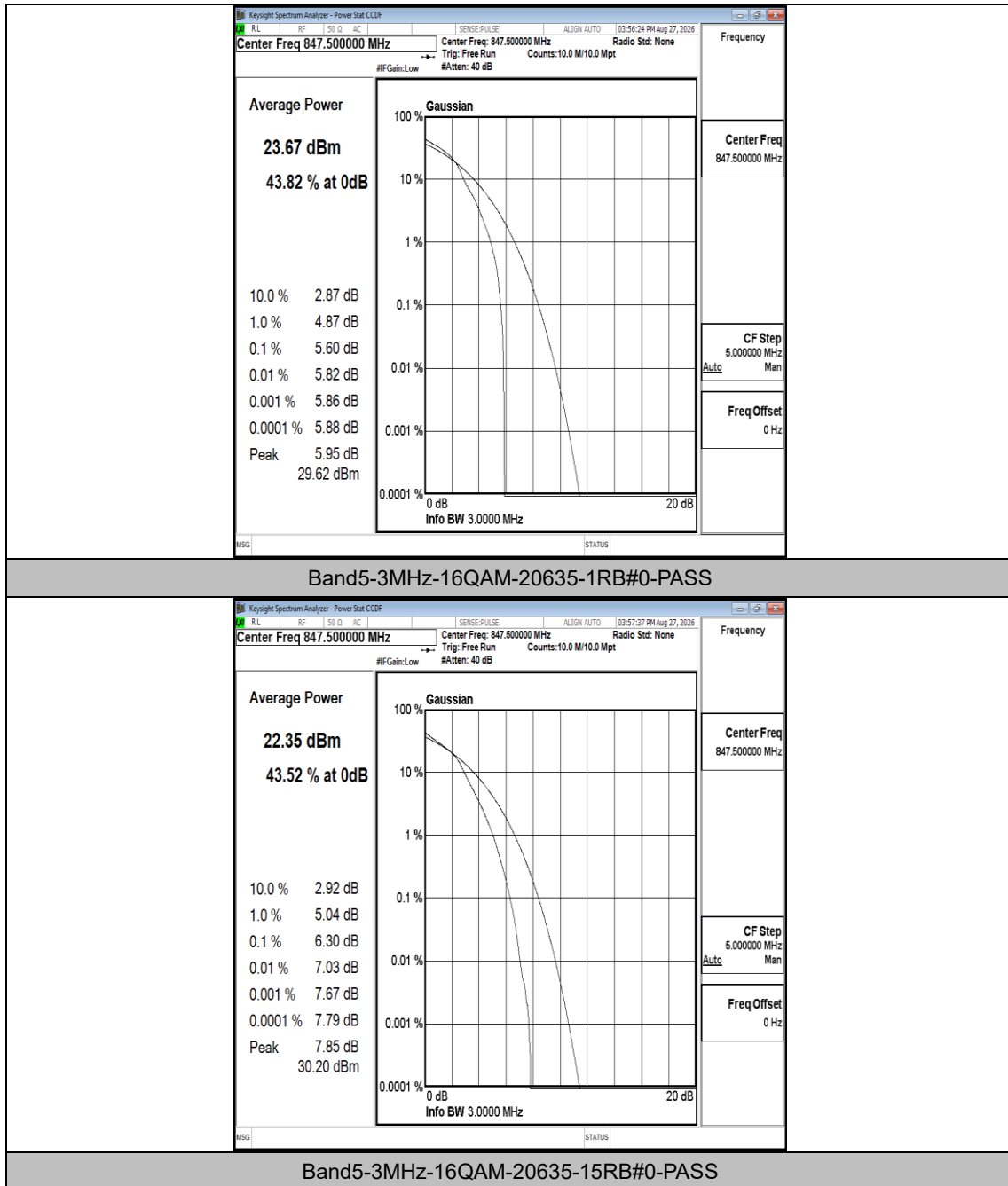


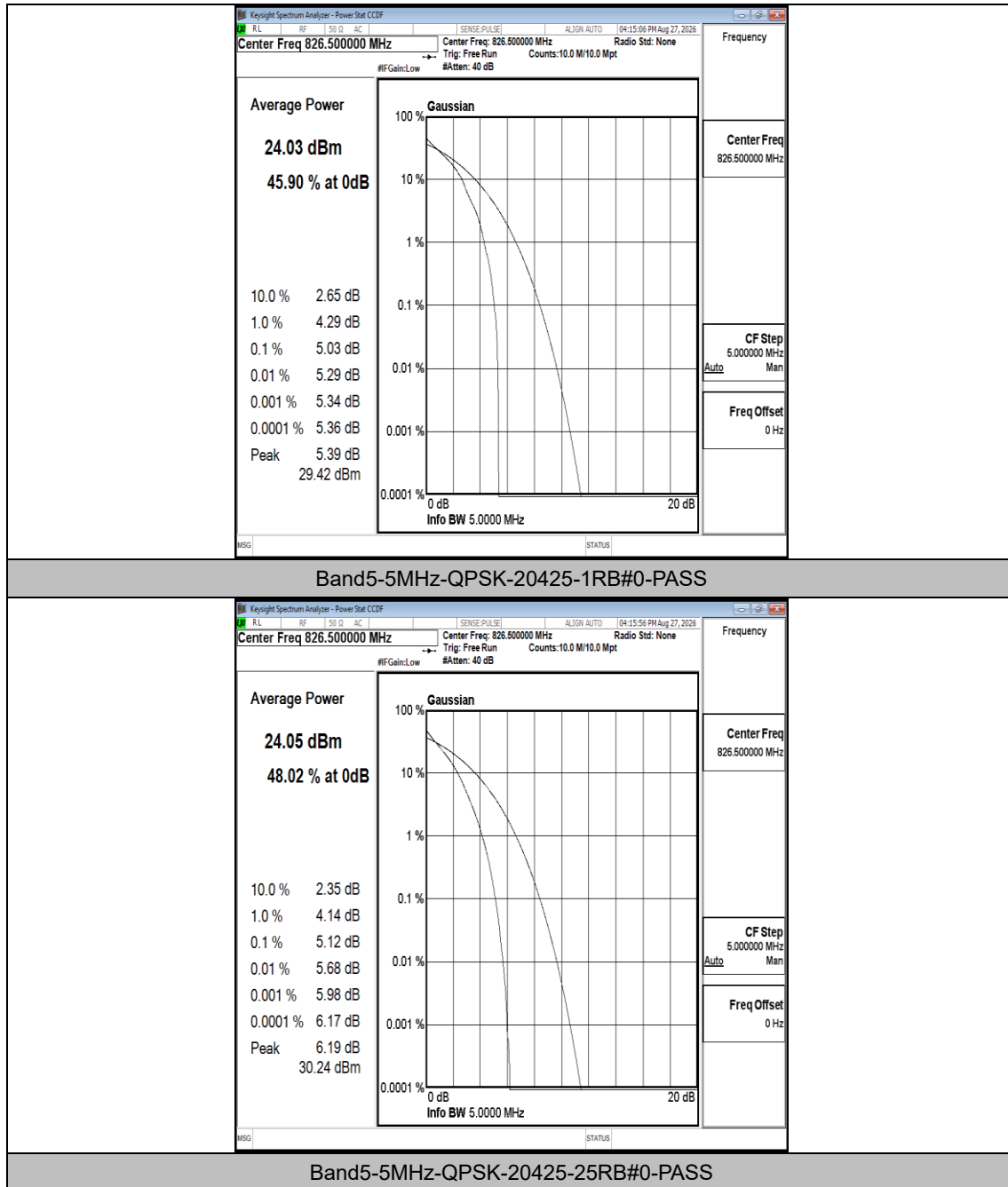


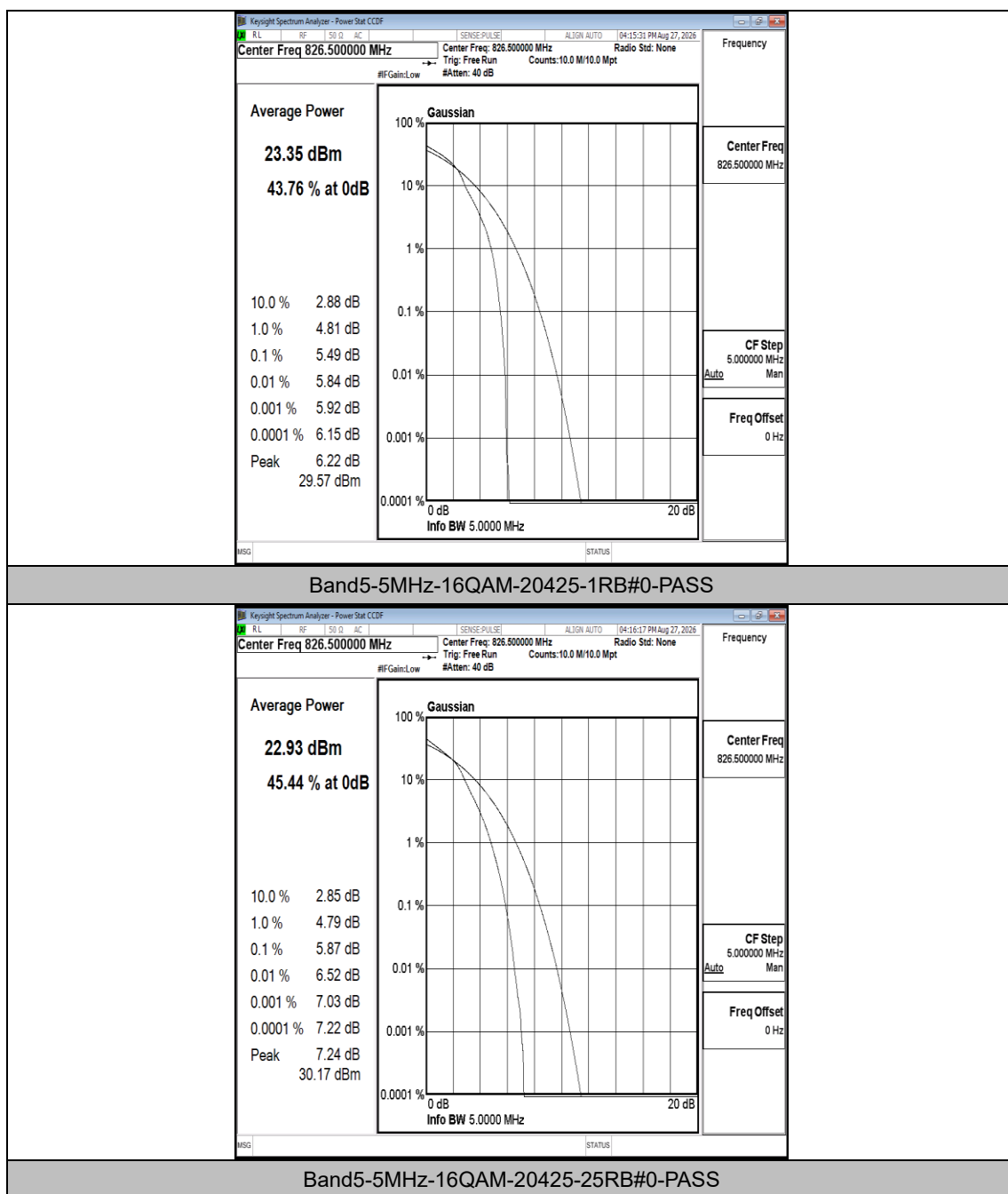


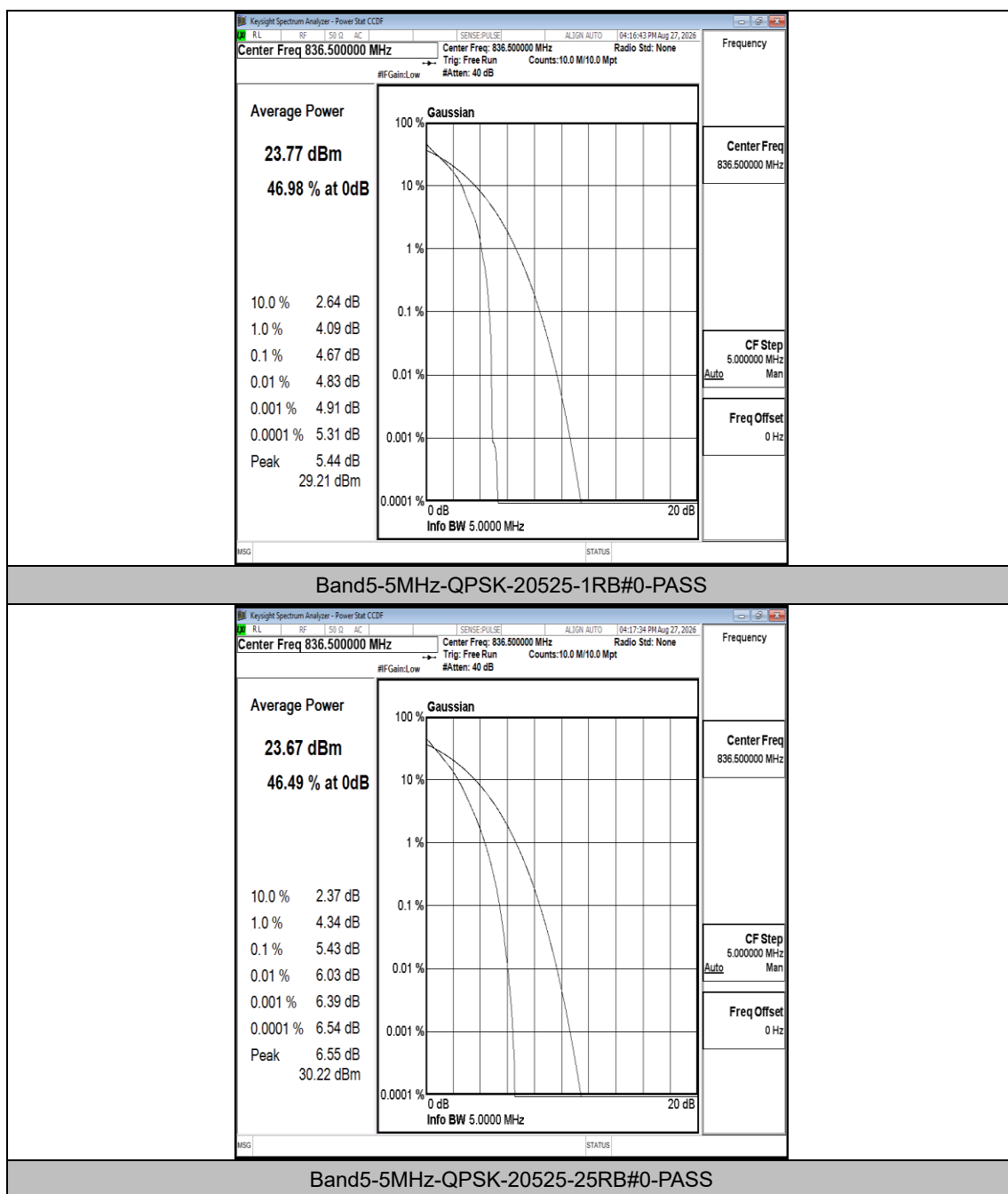


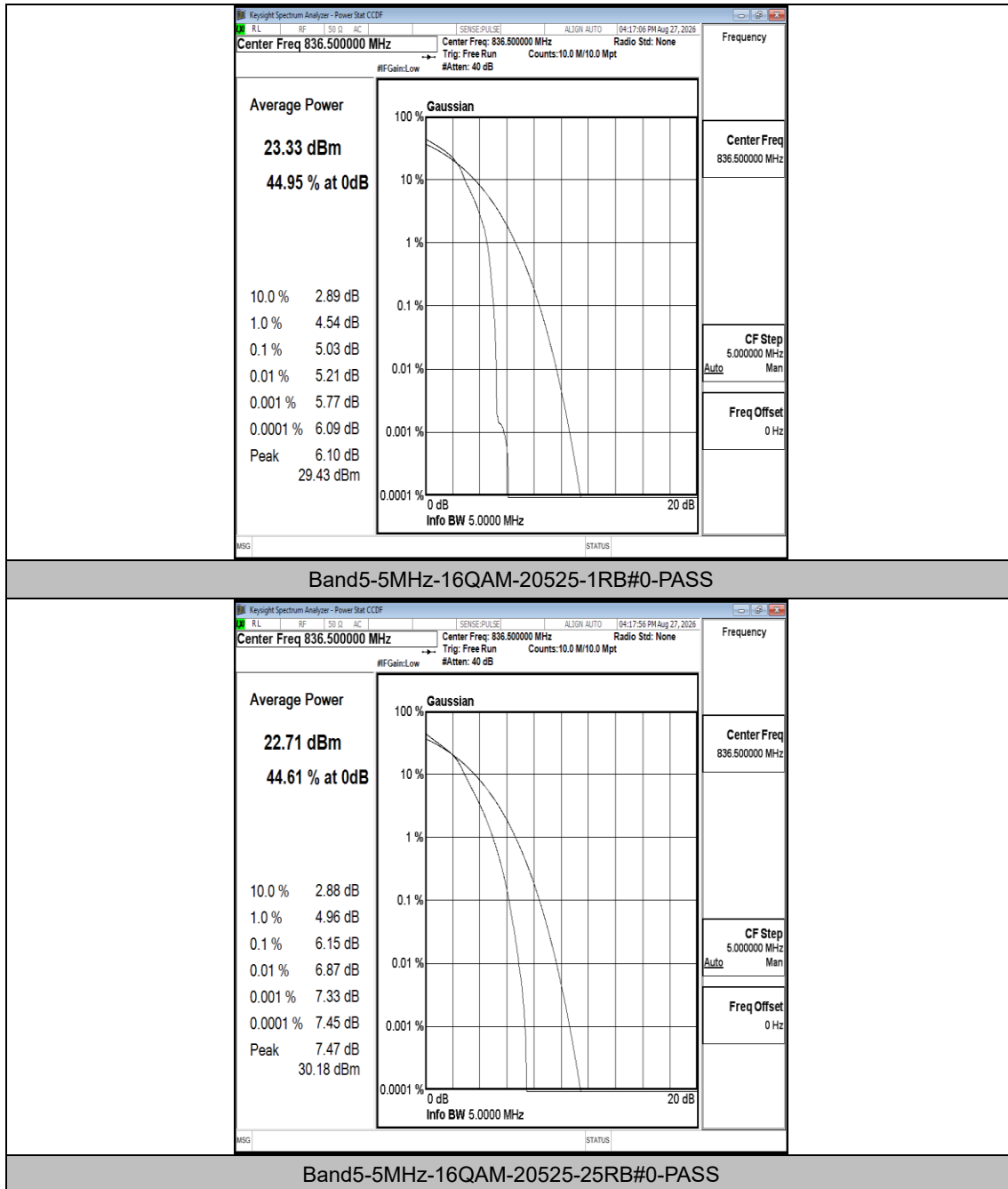


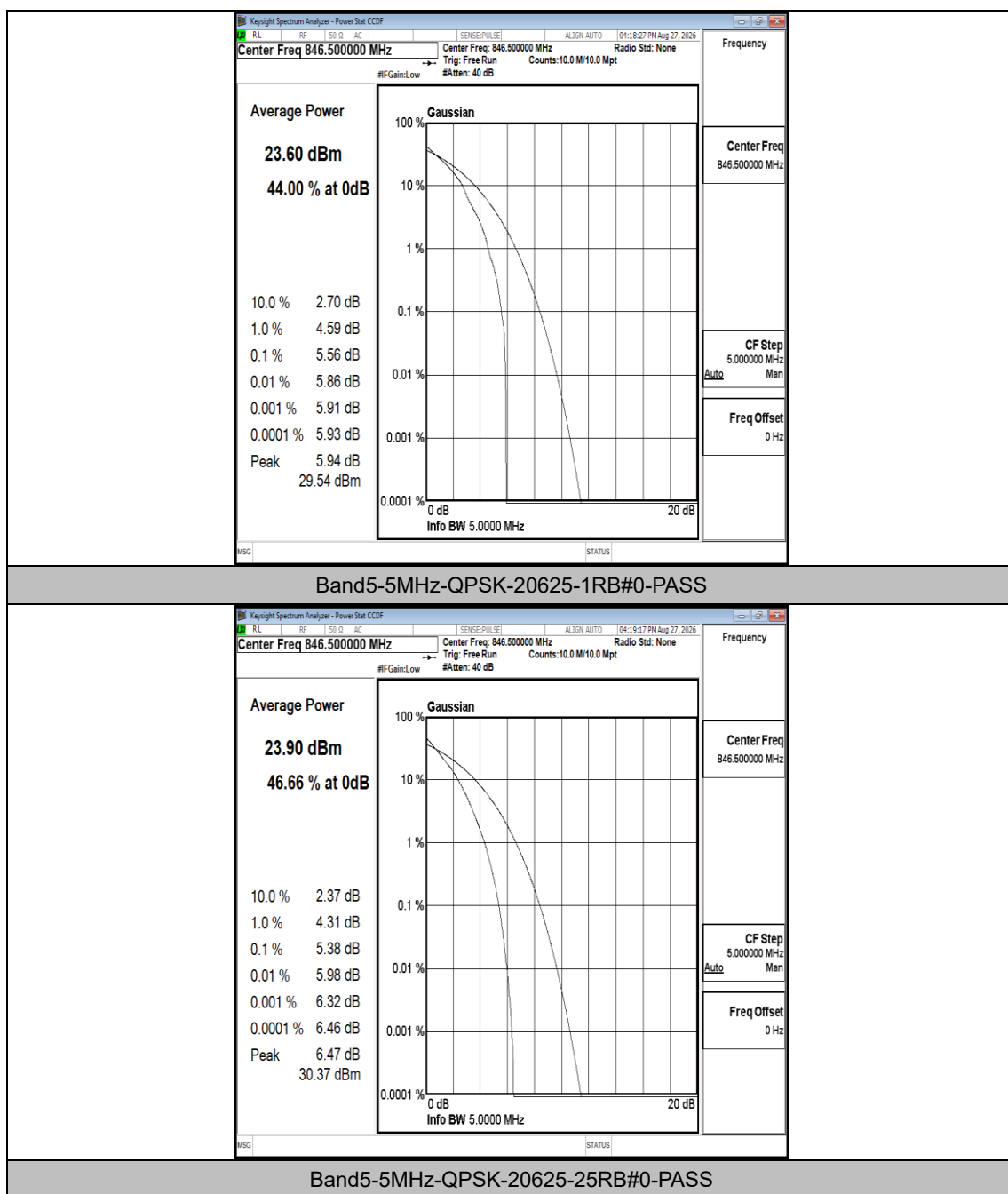


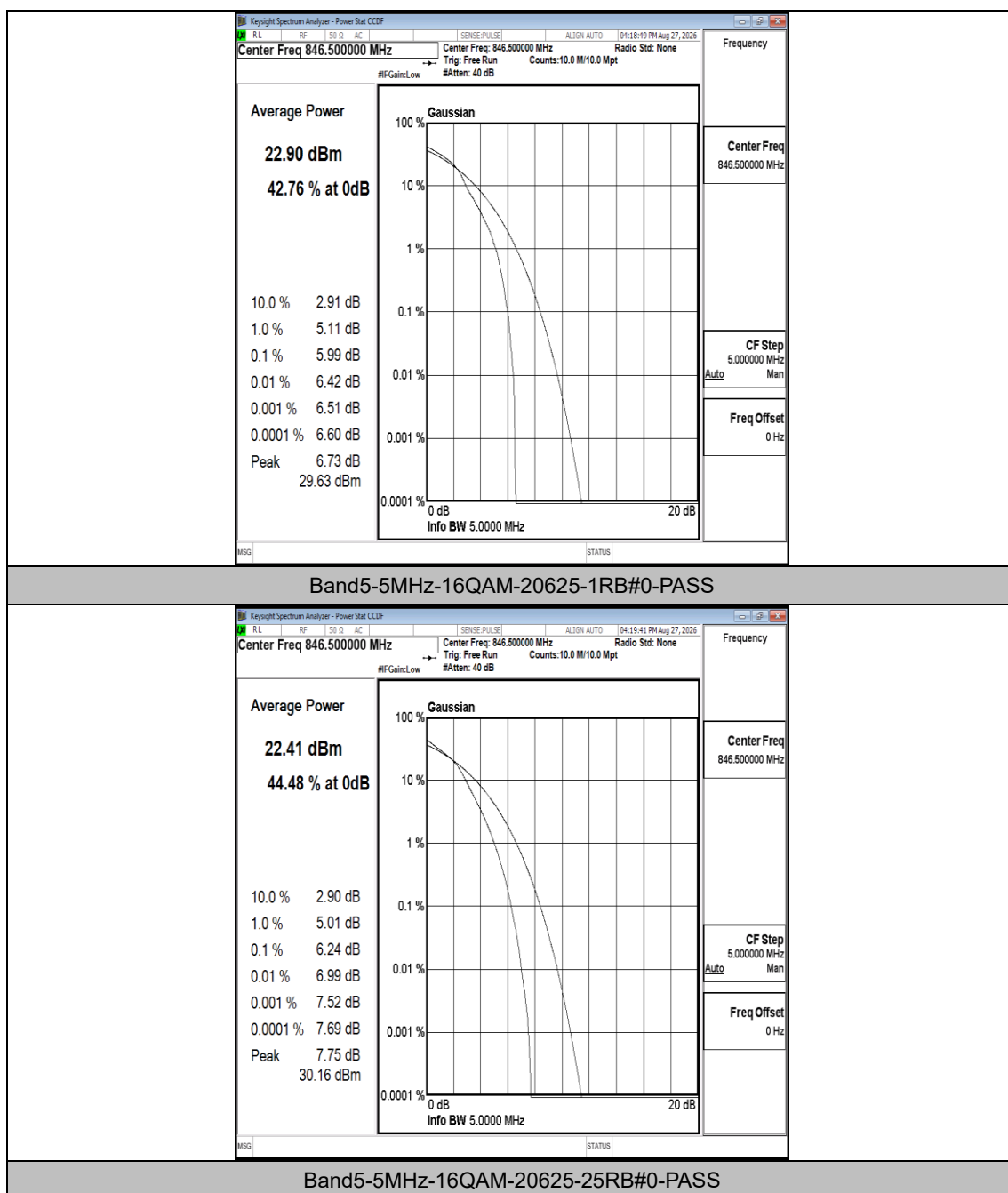


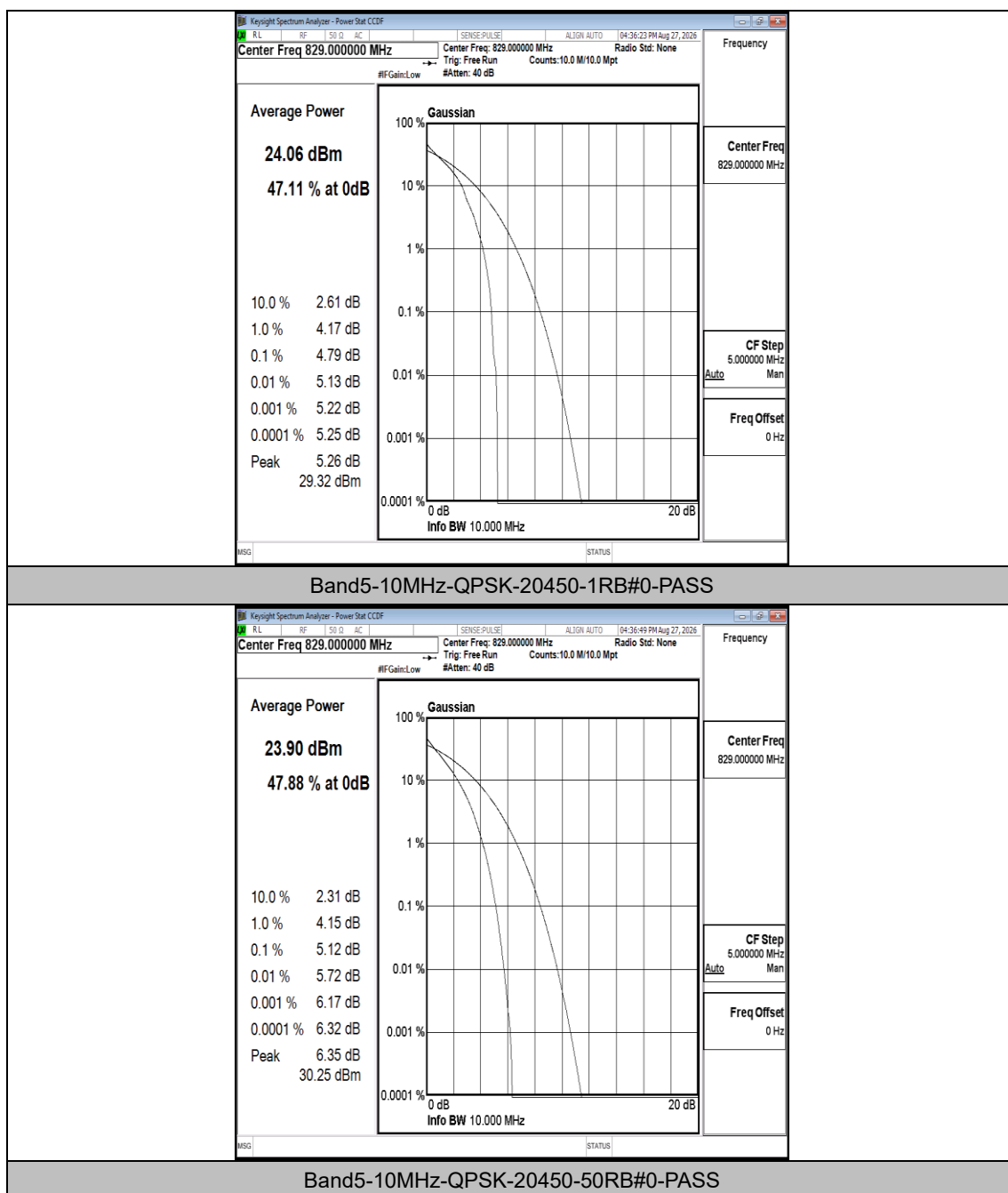


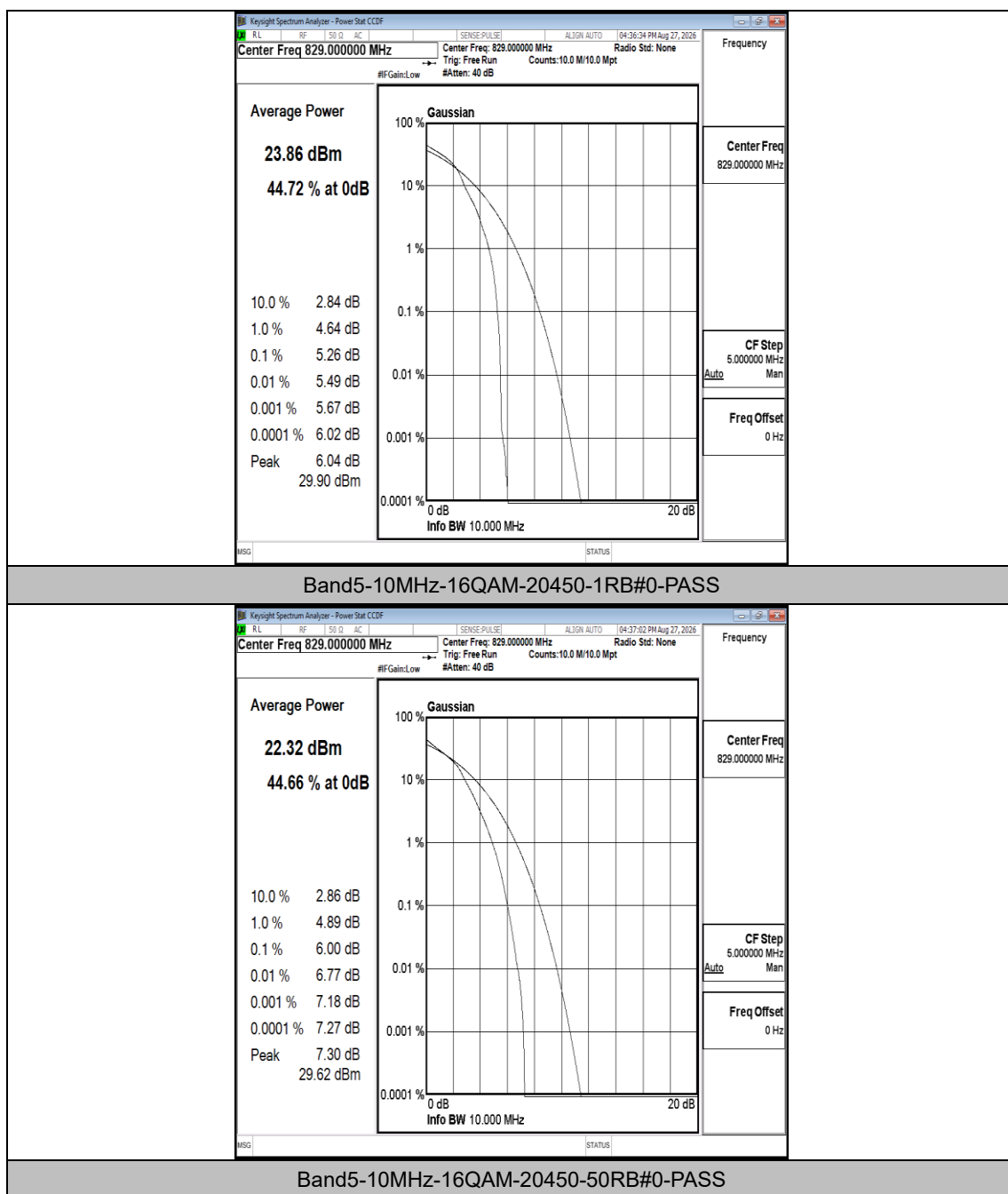


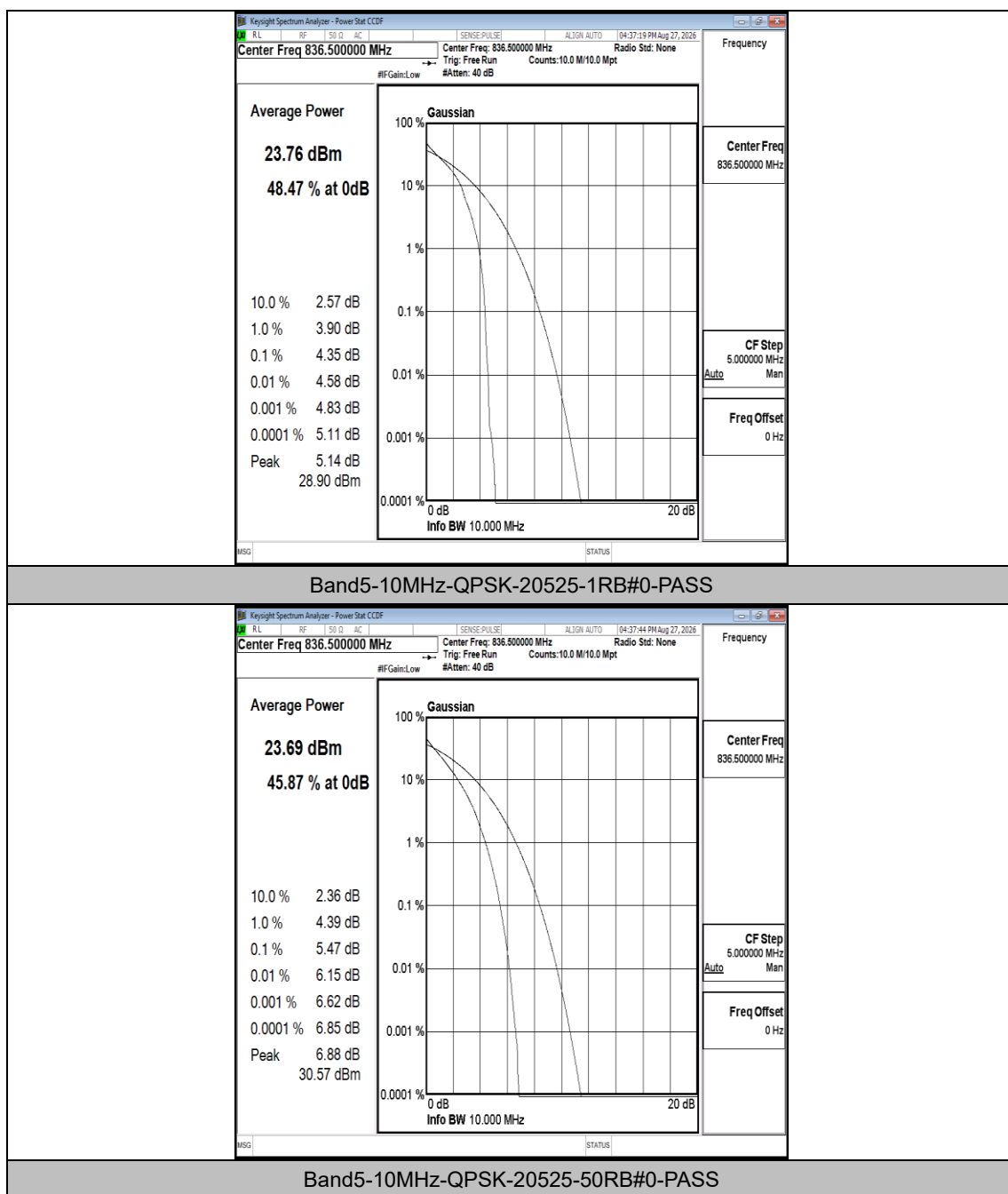


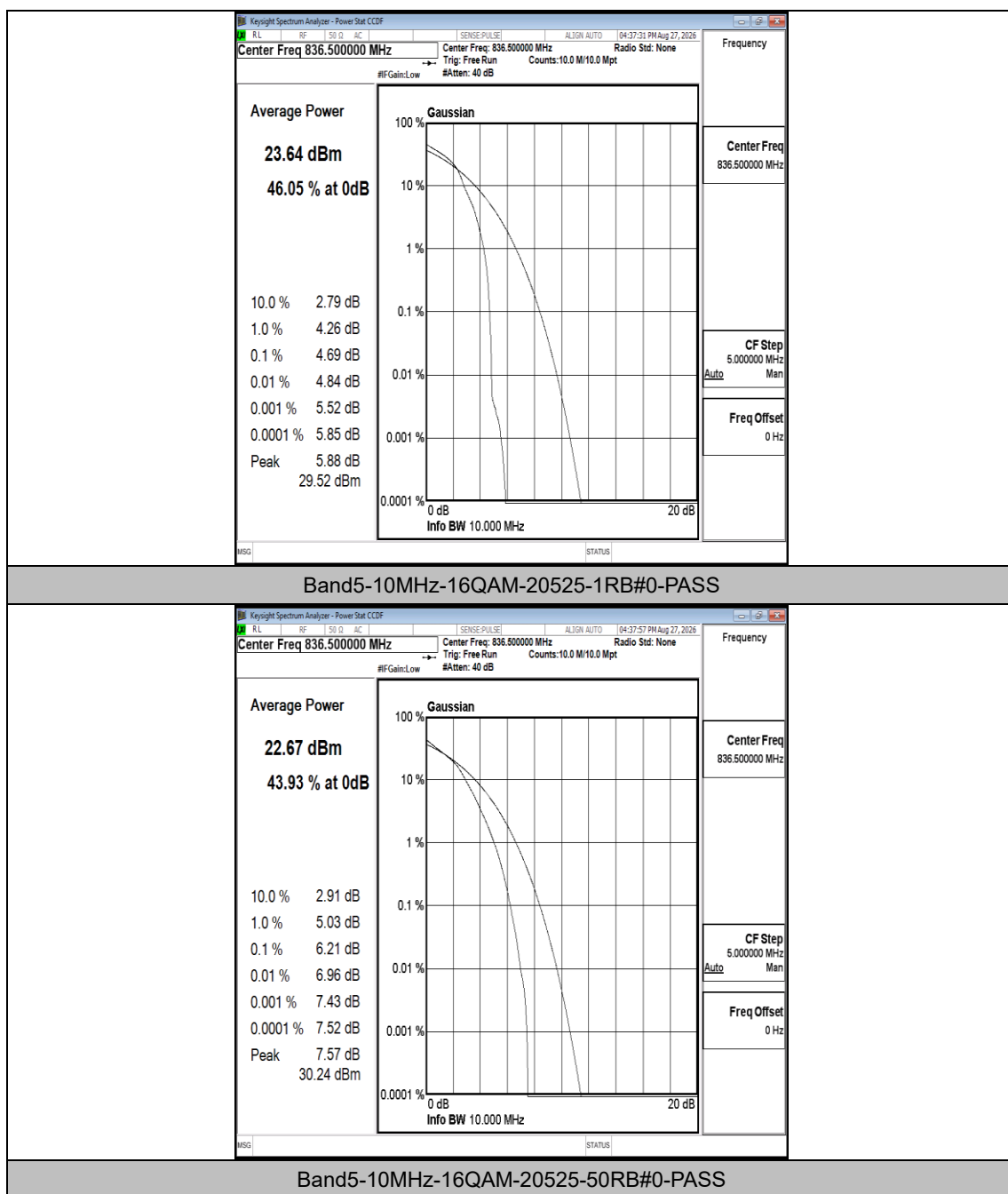


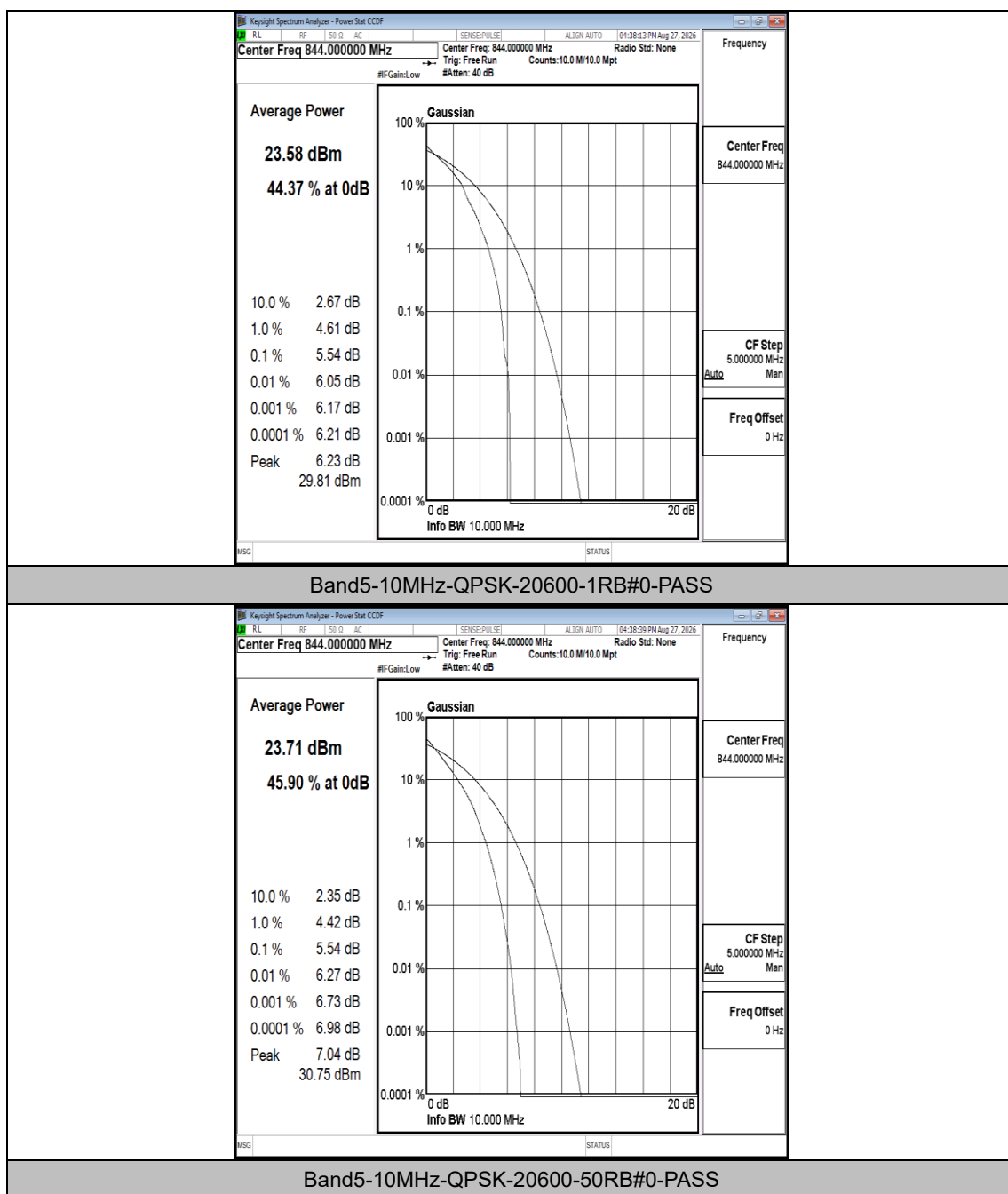


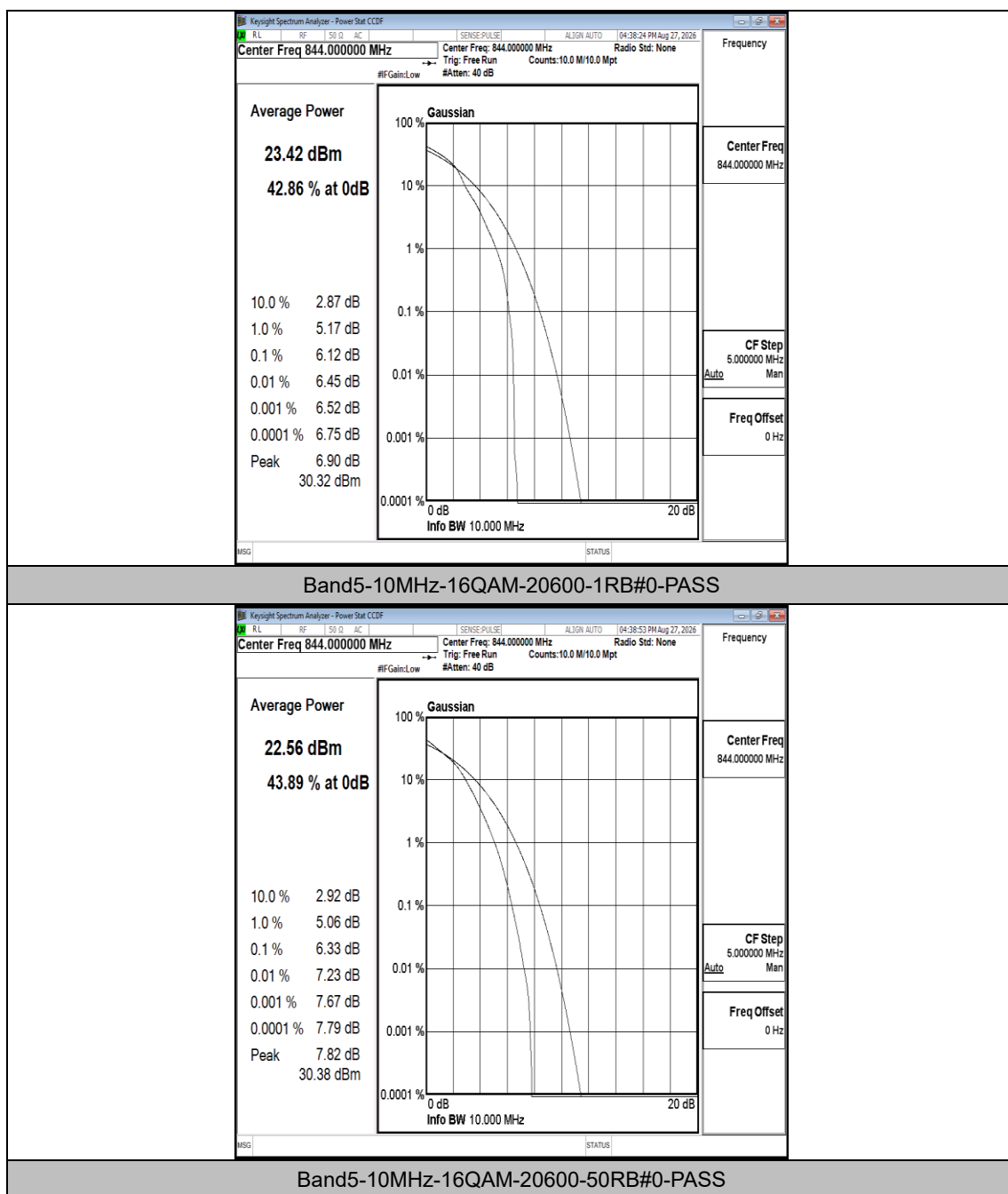












J.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0966	1.245	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.1035	1.249	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0900	1.248	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.1044	1.247	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0905	1.248	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.1014	1.247	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.7064	3.015	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7036	3.007	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7033	3.010	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.7059	3.037	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7177	3.010	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7042	3.011	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5182	4.979	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.4998	4.980	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5167	4.962	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5125	4.962	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.4965	4.957	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5011	4.948	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0158	9.954	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9857	9.913	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0072	9.932	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9955	9.960	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9861	9.915	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9794	9.864	PASS

Test Graphs

