

FCC LTE Band Test Data

FCC ID : 2BHCY-X100

Company: : Shenzhen ThreeTigers Trading co..Ltd.

EUT : Mobile Phone

Model Number : X100

Reviewed By : Eric Wang

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	6RB#0	5.14	13	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6RB#0	5.56	13	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6RB#0	5.54	13	PASS
Band26(814-824)	1.4MHz	16QAM	26697	6RB#0	5.94	13	PASS
Band26(814-824)	1.4MHz	16QAM	26740	6RB#0	6.40	13	PASS
Band26(814-824)	1.4MHz	16QAM	26783	6RB#0	6.35	13	PASS
Band26(814-824)	3MHz	QPSK	26705	15RB#0	5.41	13	PASS
Band26(814-824)	3MHz	QPSK	26740	15RB#0	5.61	13	PASS
Band26(814-824)	3MHz	QPSK	26775	15RB#0	5.65	13	PASS
Band26(814-824)	3MHz	16QAM	26705	15RB#0	6.26	13	PASS
Band26(814-824)	3MHz	16QAM	26740	15RB#0	6.40	13	PASS
Band26(814-824)	3MHz	16QAM	26775	15RB#0	6.37	13	PASS
Band26(814-824)	5MHz	QPSK	26715	25RB#0	5.57	13	PASS
Band26(814-824)	5MHz	QPSK	26740	25RB#0	5.69	13	PASS
Band26(814-824)	5MHz	QPSK	26765	25RB#0	5.73	13	PASS
Band26(814-824)	5MHz	16QAM	26715	25RB#0	6.23	13	PASS
Band26(814-824)	5MHz	16QAM	26740	25RB#0	6.34	13	PASS
Band26(814-824)	5MHz	16QAM	26765	25RB#0	6.38	13	PASS

Band26(814-824)	10MHz	QPSK	26740	50RB#0	5.52	13	PASS
Band26(814-824)	10MHz	16QAM	26740	50RB#0	6.28	13	PASS
Band26(824-849)	1.4MHz	QPSK	26797	6RB#0	5.46	13	PASS
Band26(824-849)	1.4MHz	QPSK	26915	6RB#0	5.60	13	PASS
Band26(824-849)	1.4MHz	QPSK	27033	6RB#0	5.44	13	PASS
Band26(824-849)	1.4MHz	16QAM	26797	6RB#0	6.27	13	PASS
Band26(824-849)	1.4MHz	16QAM	26915	6RB#0	6.38	13	PASS
Band26(824-849)	1.4MHz	16QAM	27033	6RB#0	6.25	13	PASS
Band26(824-849)	3MHz	QPSK	26805	15RB#0	5.55	13	PASS
Band26(824-849)	3MHz	QPSK	26915	15RB#0	5.65	13	PASS
Band26(824-849)	3MHz	QPSK	27025	15RB#0	5.62	13	PASS
Band26(824-849)	3MHz	16QAM	26805	15RB#0	6.31	13	PASS
Band26(824-849)	3MHz	16QAM	26915	15RB#0	6.48	13	PASS
Band26(824-849)	3MHz	16QAM	27025	15RB#0	6.39	13	PASS
Band26(824-849)	5MHz	QPSK	26815	25RB#0	5.64	13	PASS
Band26(824-849)	5MHz	QPSK	26915	25RB#0	5.74	13	PASS
Band26(824-849)	5MHz	QPSK	27015	25RB#0	5.75	13	PASS
Band26(824-849)	5MHz	16QAM	26815	25RB#0	6.28	13	PASS
Band26(824-849)	5MHz	16QAM	26915	25RB#0	6.39	13	PASS
Band26(824-849)	5MHz	16QAM	27015	25RB#0	6.38	13	PASS
Band26(824-849)	10MHz	QPSK	26840	50RB#0	5.59	13	PASS
Band26(824-849)	10MHz	QPSK	26915	50RB#0	5.69	13	PASS

Band26(824-849)	10MHz	QPSK	26990	50RB#0	5.71	13	PASS
Band26(824-849)	10MHz	16QAM	26840	50RB#0	6.29	13	PASS
Band26(824-849)	10MHz	16QAM	26915	50RB#0	6.39	13	PASS
Band26(824-849)	10MHz	16QAM	26990	50RB#0	6.44	13	PASS
Band26(824-849)	15MHz	QPSK	26865	75RB#0	5.90	13	PASS
Band26(824-849)	15MHz	QPSK	26915	75RB#0	5.93	13	PASS
Band26(824-849)	15MHz	QPSK	26965	75RB#0	6.01	13	PASS
Band26(824-849)	15MHz	16QAM	26865	75RB#0	6.39	13	PASS
Band26(824-849)	15MHz	16QAM	26915	75RB#0	6.44	13	PASS
Band26(824-849)	15MHz	16QAM	26965	75RB#0	6.48	13	PASS

The figure displays four Agilent Spectrum Analyzer screenshots, each showing a power spectral density (PSD) plot for a different modulation scheme. The plots are arranged in a 2x2 grid. Each plot includes a table of power values and a Gaussian fit curve.

Top Left Plot (QPSK):

- Center Freq: 814.700000 MHz
- Average Power: 17.98 dBm
- 47.52 % at 0dB
- 10.0 %: 2.55 dB
- 1.0 %: 4.23 dB
- 0.1 %: 5.14 dB
- 0.01 %: 5.81 dB
- 0.001 %: 6.40 dB
- 0.0001 %: 6.45 dB
- Peak: 24.46 dB
- 24.44 dBm

Top Right Plot (16QAM):

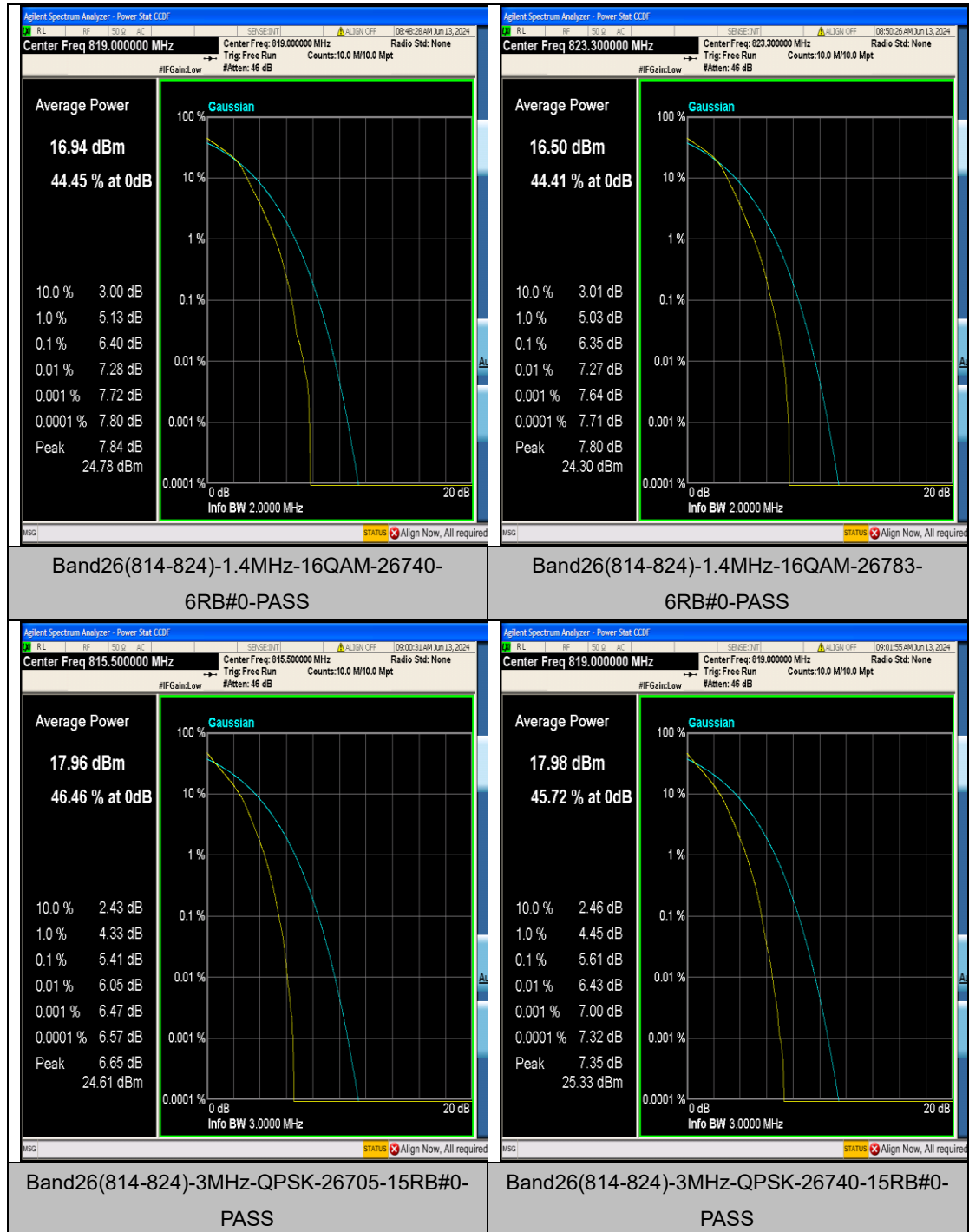
- Center Freq: 819.000000 MHz
- Average Power: 17.97 dBm
- 46.13 % at 0dB
- 10.0 %: 2.60 dB
- 1.0 %: 4.50 dB
- 0.1 %: 5.56 dB
- 0.01 %: 6.09 dB
- 0.001 %: 6.34 dB
- 0.0001 %: 6.43 dB
- Peak: 24.43 dB
- 24.43 dBm

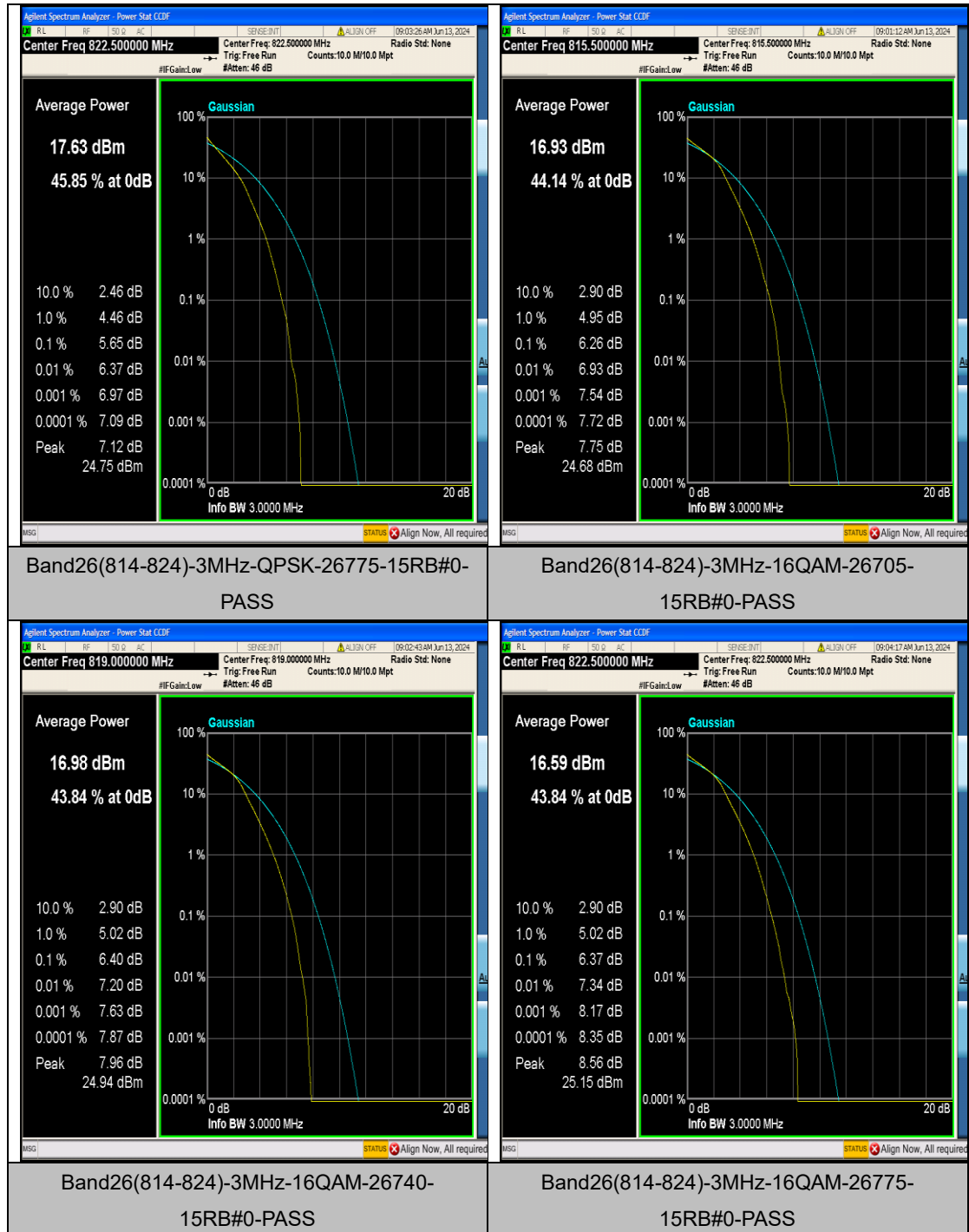
Bottom Left Plot (QPSK):

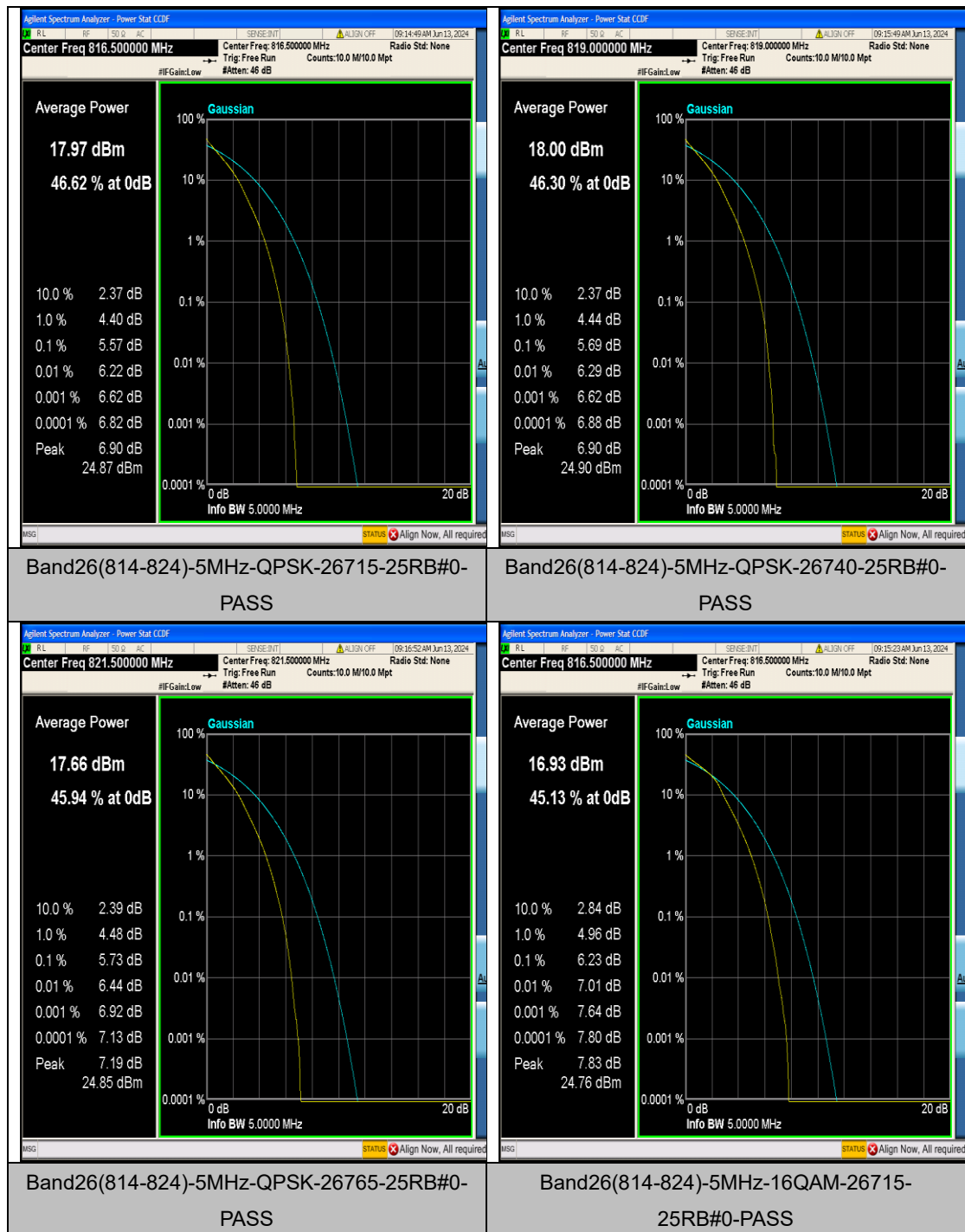
- Center Freq: 823.300000 MHz
- Average Power: 17.46 dBm
- 46.23 % at 0dB
- 10.0 %: 2.59 dB
- 1.0 %: 4.44 dB
- 0.1 %: 5.54 dB
- 0.01 %: 6.36 dB
- 0.001 %: 7.08 dB
- 0.0001 %: 7.18 dB
- Peak: 7.22 dB
- 24.68 dBm

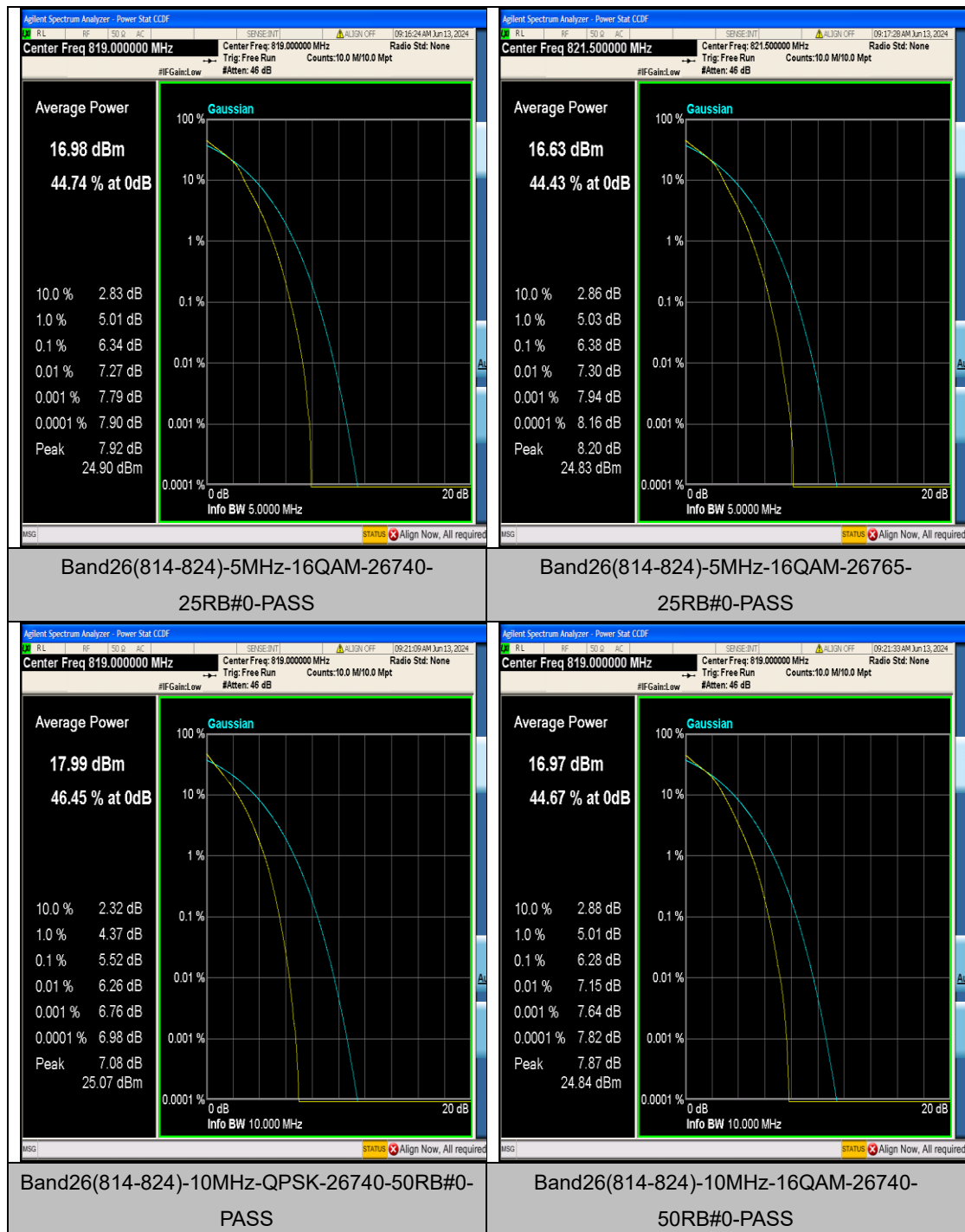
Bottom Right Plot (16QAM):

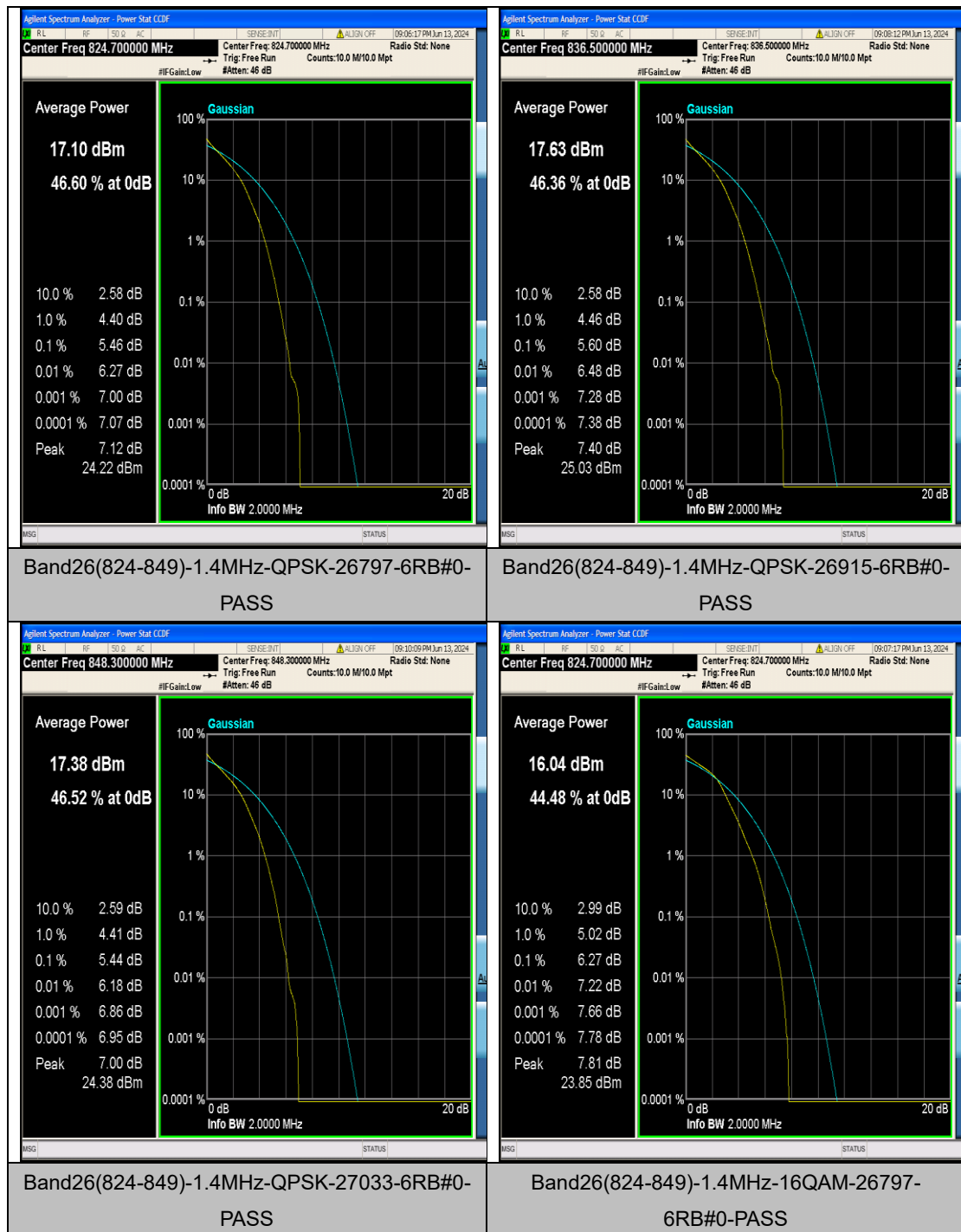
- Center Freq: 814.700000 MHz
- Average Power: 16.96 dBm
- 44.96 % at 0dB
- 10.0 %: 2.98 dB
- 1.0 %: 4.86 dB
- 0.1 %: 5.94 dB
- 0.01 %: 6.78 dB
- 0.001 %: 7.16 dB
- 0.0001 %: 7.21 dB
- Peak: 7.24 dB
- 24.20 dBm

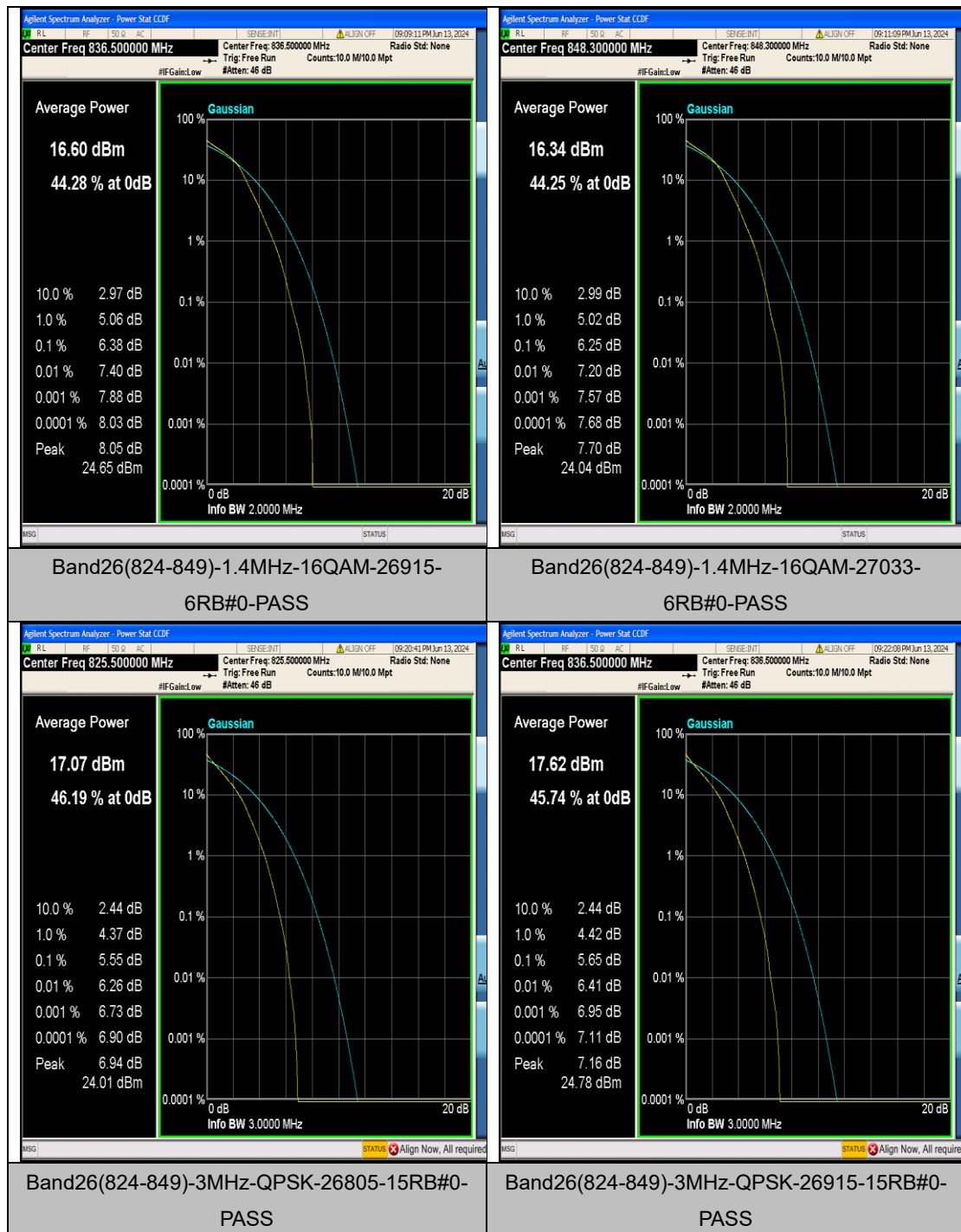


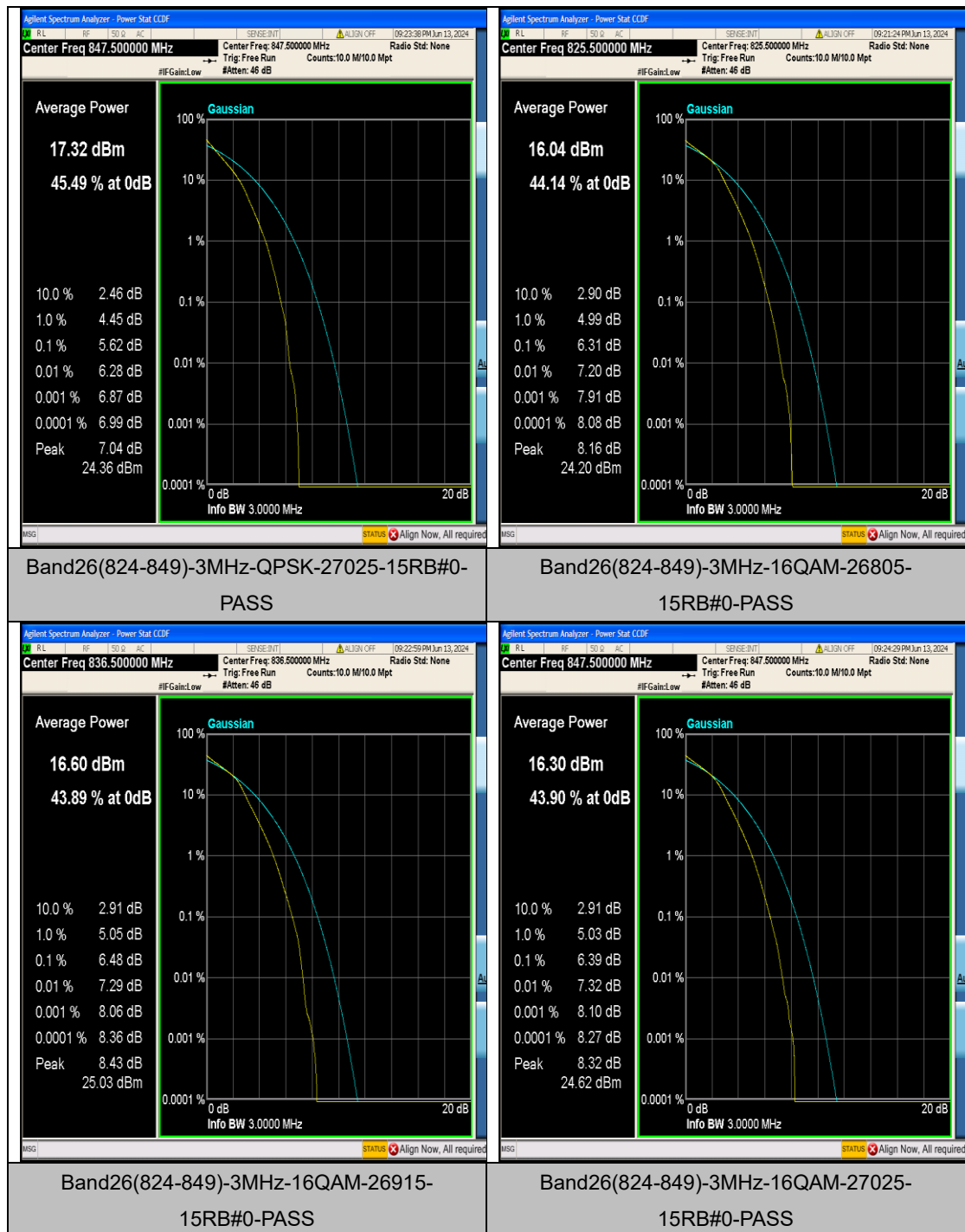


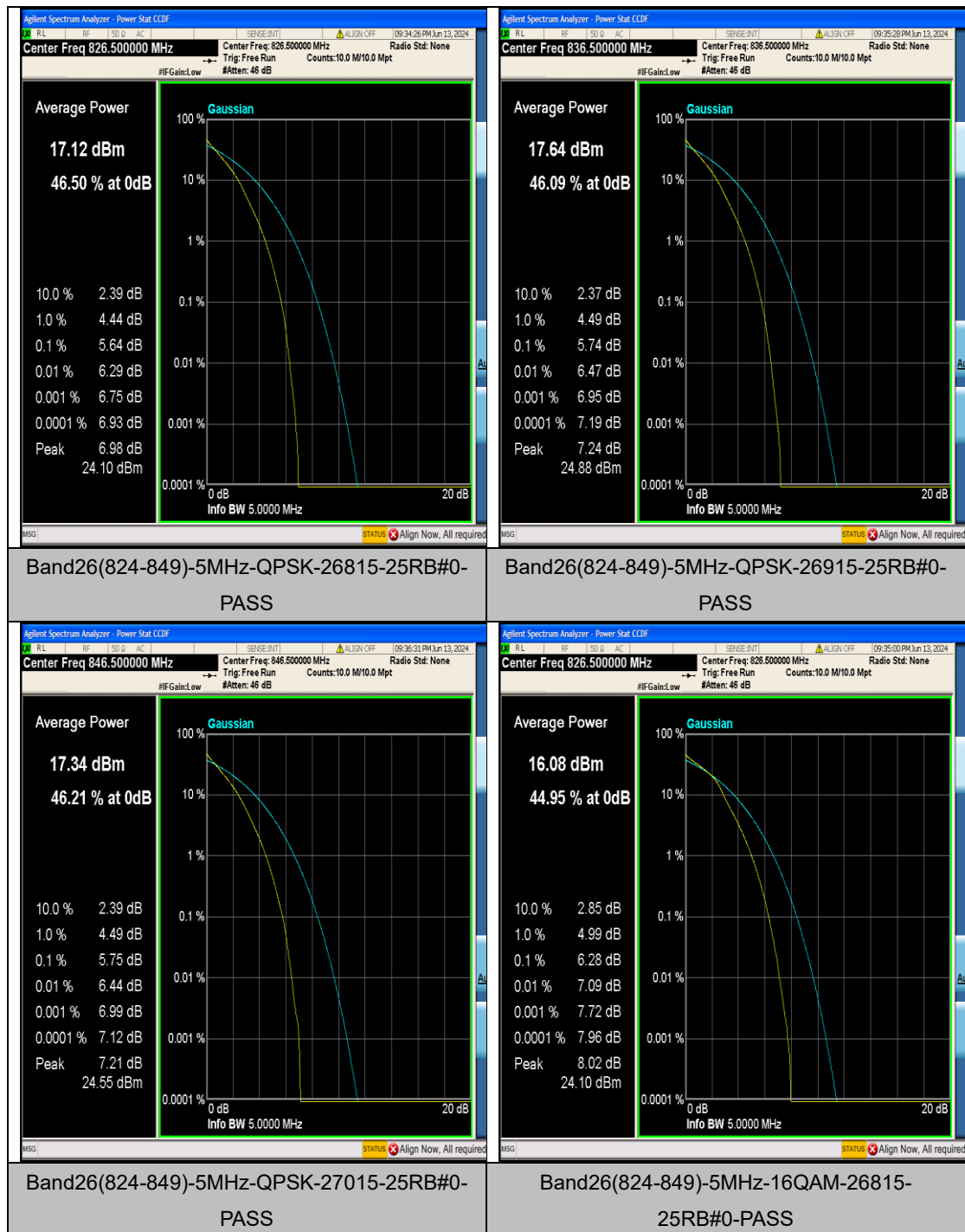


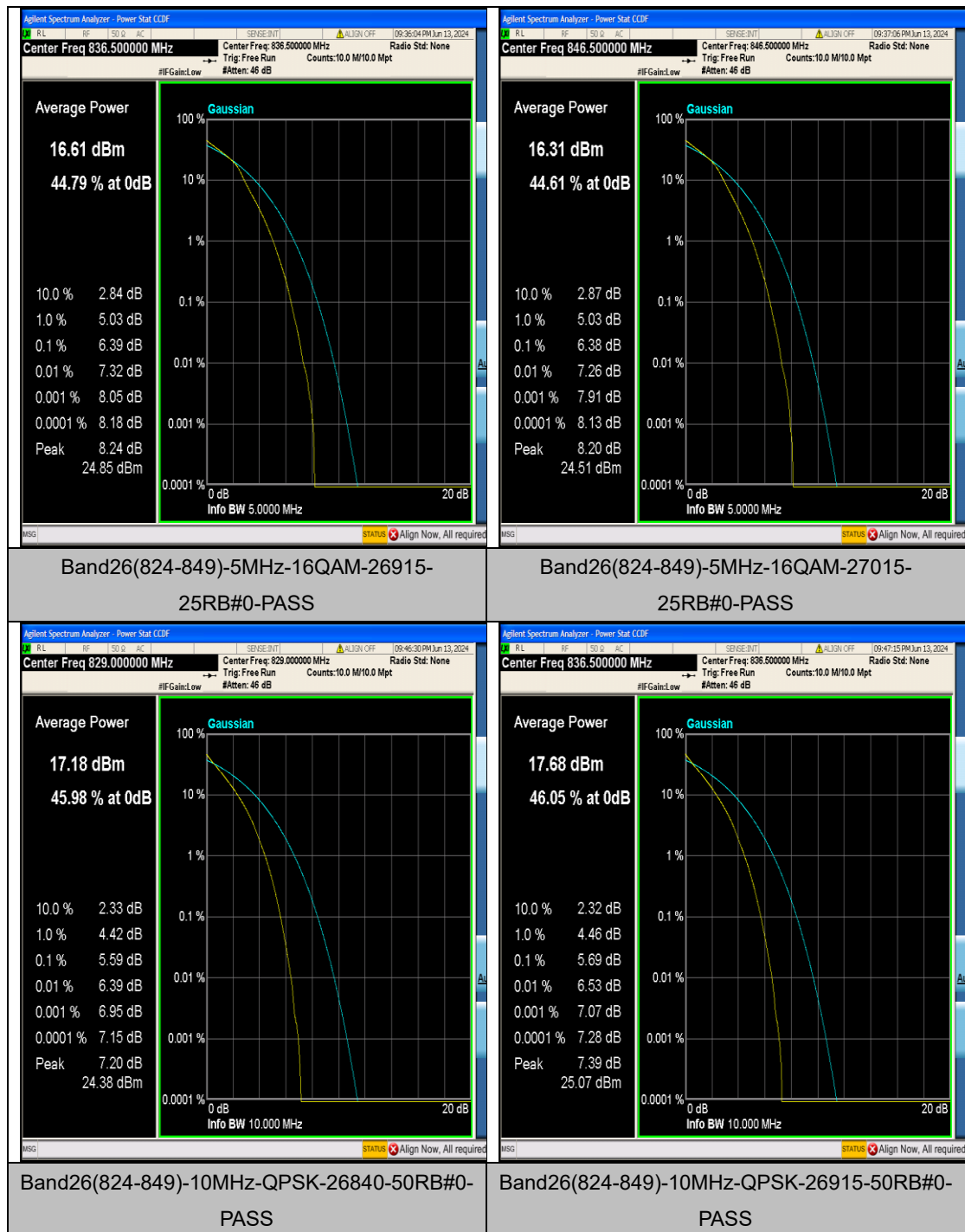


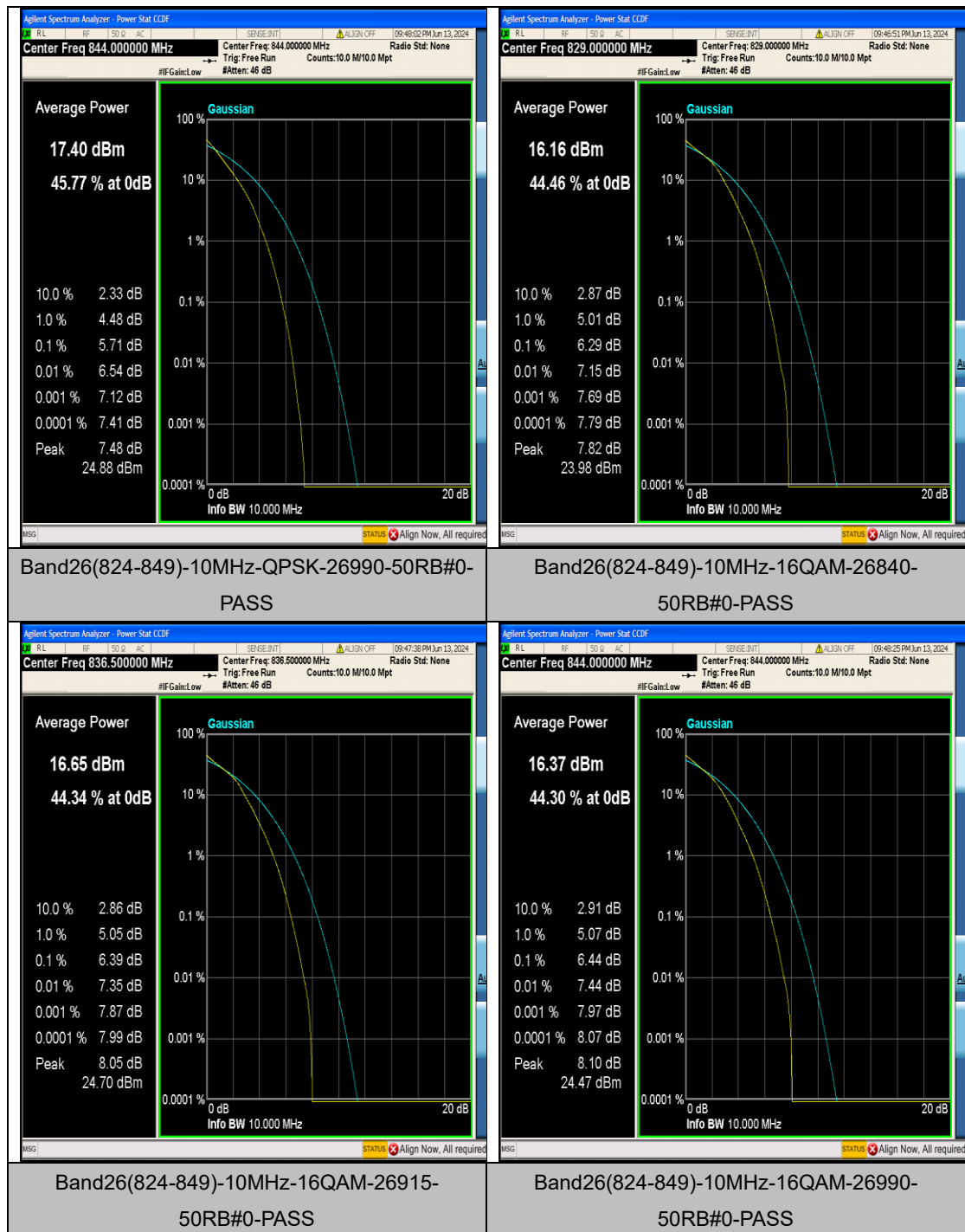


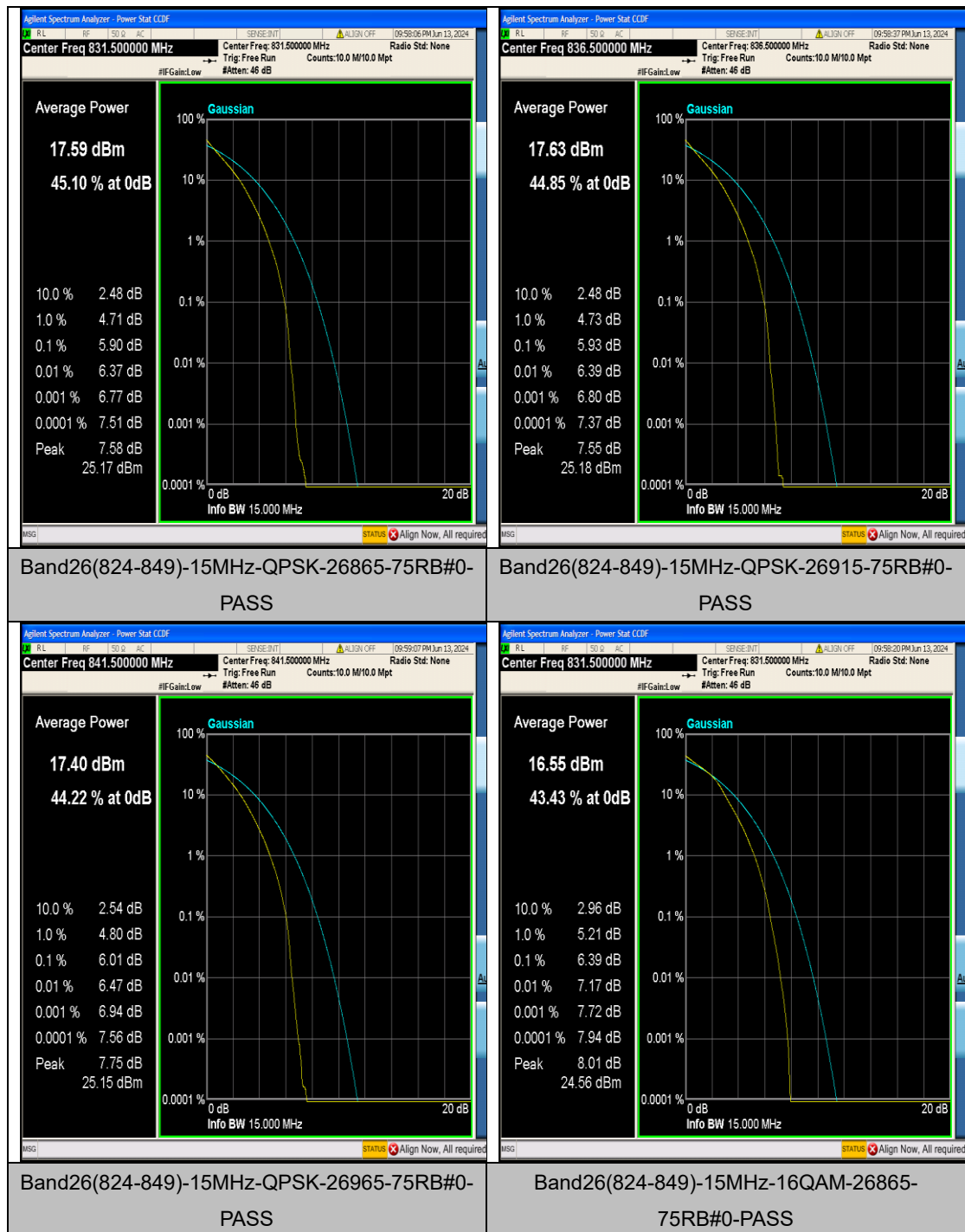


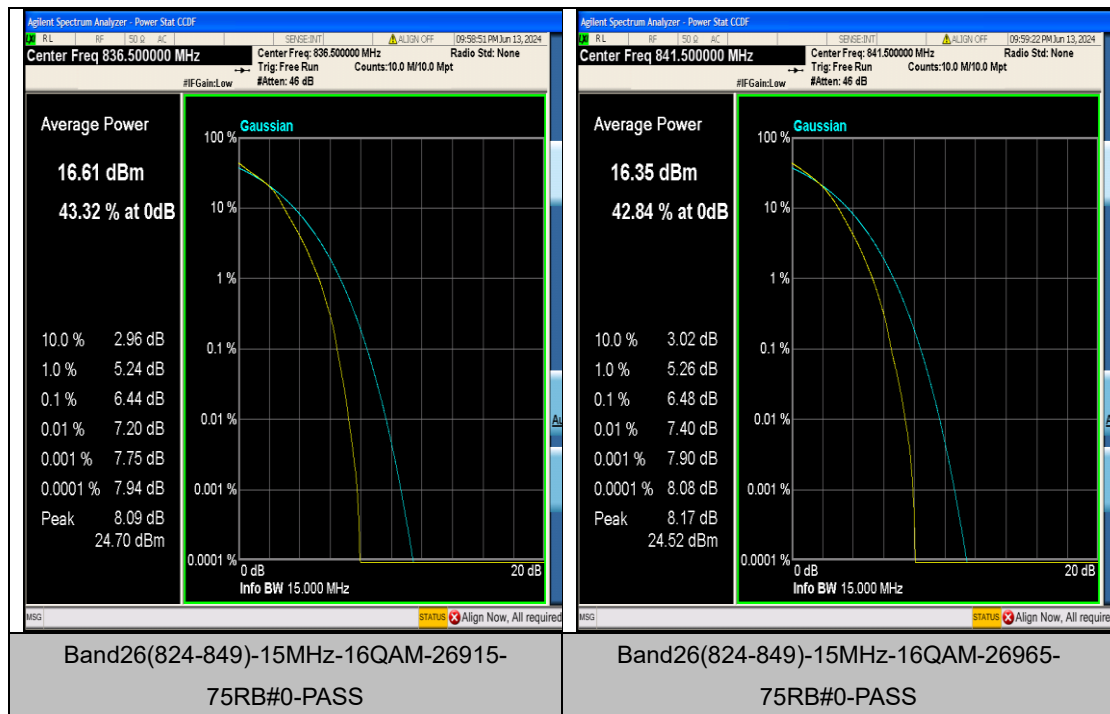












Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26(814-824)	1.4MHz	QPSK	26697	6RB#0	1.0966	1.298	PASS
Band26(814-824)	1.4MHz	QPSK	26740	6RB#0	1.0903	1.288	PASS
Band26(814-824)	1.4MHz	QPSK	26783	6RB#0	1.0917	1.280	PASS
Band26(814-824)	1.4MHz	16QAM	26697	6RB#0	1.0873	1.276	PASS
Band26(814-824)	1.4MHz	16QAM	26740	6RB#0	1.0957	1.295	PASS
Band26(814-824)	1.4MHz	16QAM	26783	6RB#0	1.0964	1.315	PASS
Band26(814-824)	3MHz	QPSK	26705	15RB#0	2.6859	2.891	PASS
Band26(814-824)	3MHz	QPSK	26740	15RB#0	2.6884	2.897	PASS
Band26(814-824)	3MHz	QPSK	26775	15RB#0	2.6921	2.896	PASS
Band26(814-824)	3MHz	16QAM	26705	15RB#0	2.6835	2.892	PASS
Band26(814-824)	3MHz	16QAM	26740	15RB#0	2.6830	2.911	PASS
Band26(814-824)	3MHz	16QAM	26775	15RB#0	2.6806	2.880	PASS
Band26(814-824)	5MHz	QPSK	26715	25RB#0	4.5189	5.190	PASS
Band26(814-824)	5MHz	QPSK	26740	25RB#0	4.5057	5.140	PASS
Band26(814-824)	5MHz	QPSK	26765	25RB#0	4.5208	5.185	PASS
Band26(814-824)	5MHz	16QAM	26715	25RB#0	4.5145	5.113	PASS
Band26(814-824)	5MHz	16QAM	26740	25RB#0	4.5205	5.205	PASS
Band26(814-824)	5MHz	16QAM	26765	25RB#0	4.5211	5.116	PASS

824)							
Band26(814-824)	10MHz	QPSK	26740	50RB#0	8.9933	10.11	PASS
Band26(814-824)	10MHz	16QAM	26740	50RB#0	8.9966	9.979	PASS
Band26(824-849)	1.4MHz	QPSK	26797	6RB#0	1.0907	1.283	PASS
Band26(824-849)	1.4MHz	QPSK	26915	6RB#0	1.0921	1.282	PASS
Band26(824-849)	1.4MHz	QPSK	27033	6RB#0	1.0906	1.291	PASS
Band26(824-849)	1.4MHz	16QAM	26797	6RB#0	1.0971	1.303	PASS
Band26(824-849)	1.4MHz	16QAM	26915	6RB#0	1.0974	1.299	PASS
Band26(824-849)	1.4MHz	16QAM	27033	6RB#0	1.0967	1.309	PASS
Band26(824-849)	3MHz	QPSK	26805	15RB#0	2.6858	2.898	PASS
Band26(824-849)	3MHz	QPSK	26915	15RB#0	2.6884	2.898	PASS
Band26(824-849)	3MHz	QPSK	27025	15RB#0	2.6847	2.893	PASS
Band26(824-849)	3MHz	16QAM	26805	15RB#0	2.6833	2.881	PASS
Band26(824-849)	3MHz	16QAM	26915	15RB#0	2.6793	2.892	PASS
Band26(824-849)	3MHz	16QAM	27025	15RB#0	2.6779	2.904	PASS
Band26(824-849)	5MHz	QPSK	26815	25RB#0	4.5278	5.206	PASS
Band26(824-849)	5MHz	QPSK	26915	25RB#0	4.5193	5.194	PASS
Band26(824-849)	5MHz	QPSK	27015	25RB#0	4.5164	5.181	PASS
Band26(824-849)	5MHz	16QAM	26815	25RB#0	4.5231	5.124	PASS
Band26(824-849)	5MHz	16QAM	26915	25RB#0	4.5149	5.131	PASS
Band26(824-849)	5MHz	16QAM	27015	25RB#0	4.5078	5.104	PASS
Band26(824-849)	10MHz	QPSK	26840	50RB#0	9.0233	10.10	PASS

Band26(824-849)	10MHz	QPSK	26915	50RB#0	9.0007	10.16	PASS
Band26(824-849)	10MHz	QPSK	26990	50RB#0	8.9980	10.16	PASS
Band26(824-849)	10MHz	16QAM	26840	50RB#0	9.0101	10.03	PASS
Band26(824-849)	10MHz	16QAM	26915	50RB#0	9.0014	9.986	PASS
Band26(824-849)	10MHz	16QAM	26990	50RB#0	9.0037	10.08	PASS
Band26(824-849)	15MHz	QPSK	26865	75RB#0	13.505	15.06	PASS
Band26(824-849)	15MHz	QPSK	26915	75RB#0	13.516	15.08	PASS
Band26(824-849)	15MHz	QPSK	26965	75RB#0	13.508	15.03	PASS
Band26(824-849)	15MHz	16QAM	26865	75RB#0	13.496	15.06	PASS
Band26(824-849)	15MHz	16QAM	26915	75RB#0	13.484	14.99	PASS
Band26(824-849)	15MHz	16QAM	26965	75RB#0	13.489	14.96	PASS

Test Graphs

