

FCC LTE Band Test Data

FCC ID : 2BN2I-QF9007

Company: : Shenzhen Qian feng INFORMATION Technology Co., LTD.

EUT : Vehicle navigation

Model : QF9007

Number

Reviewed By : Eric Wang

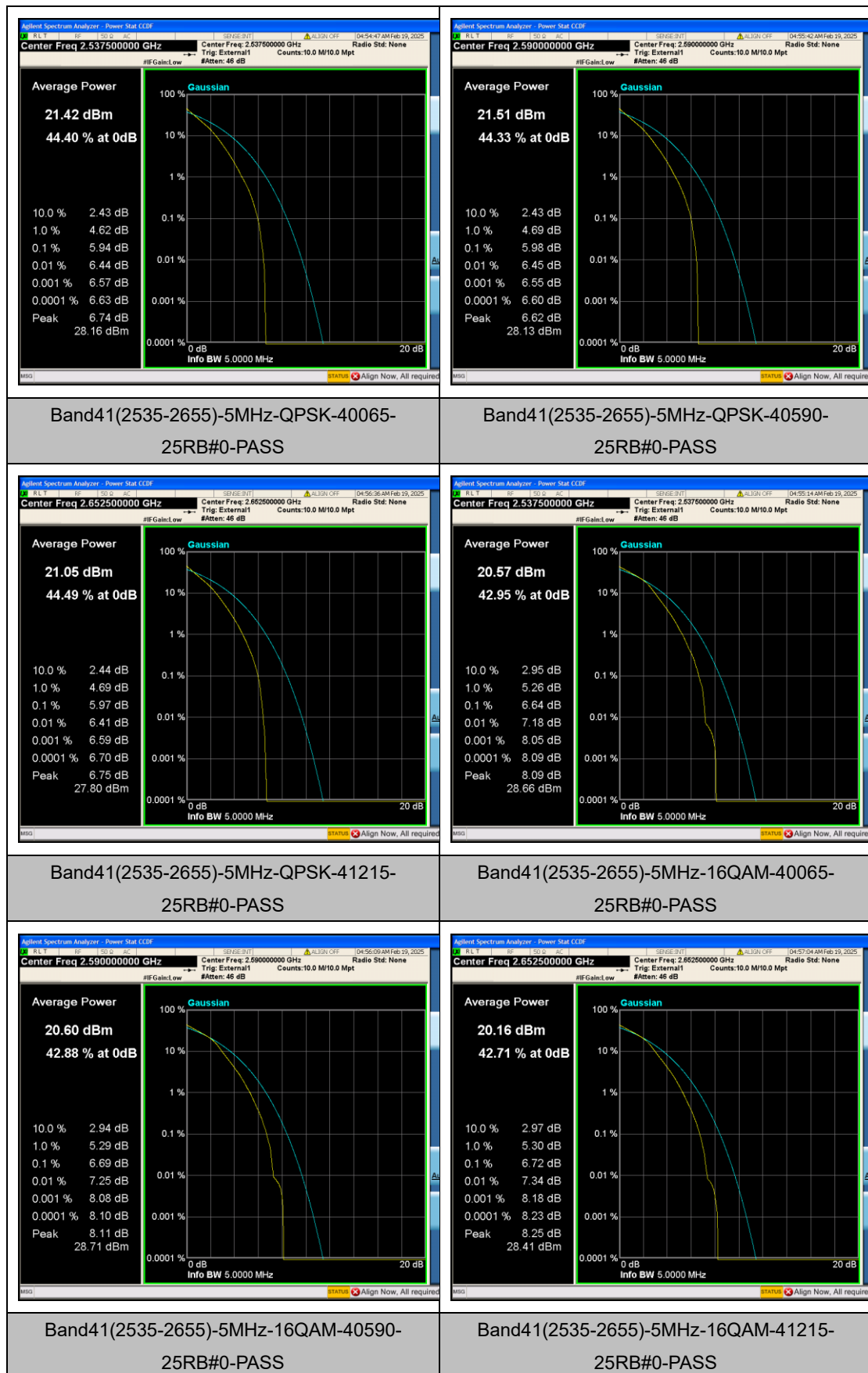
Appendix B: Peak-to-Average Ratio(CCDF)

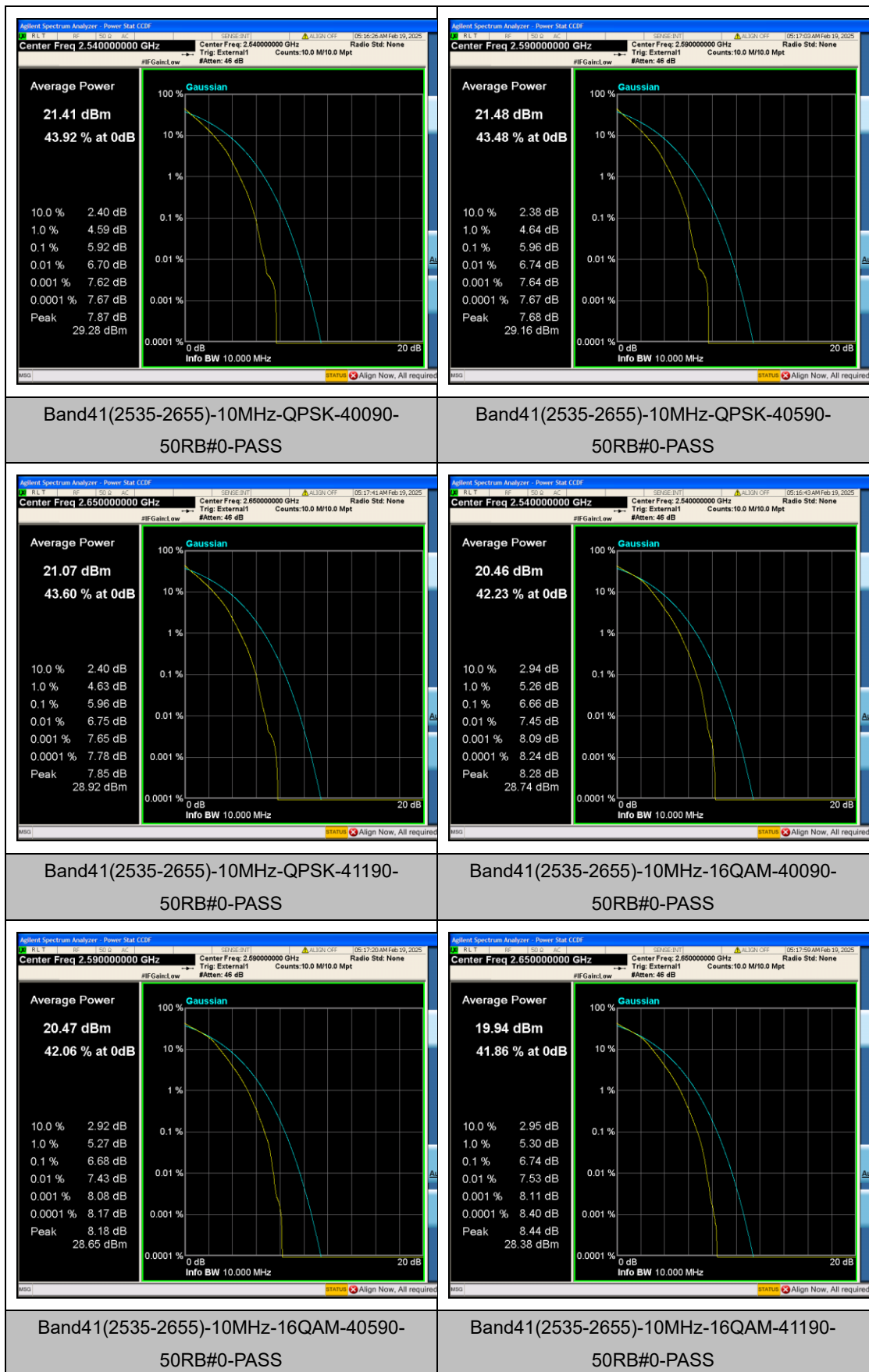
Test Result

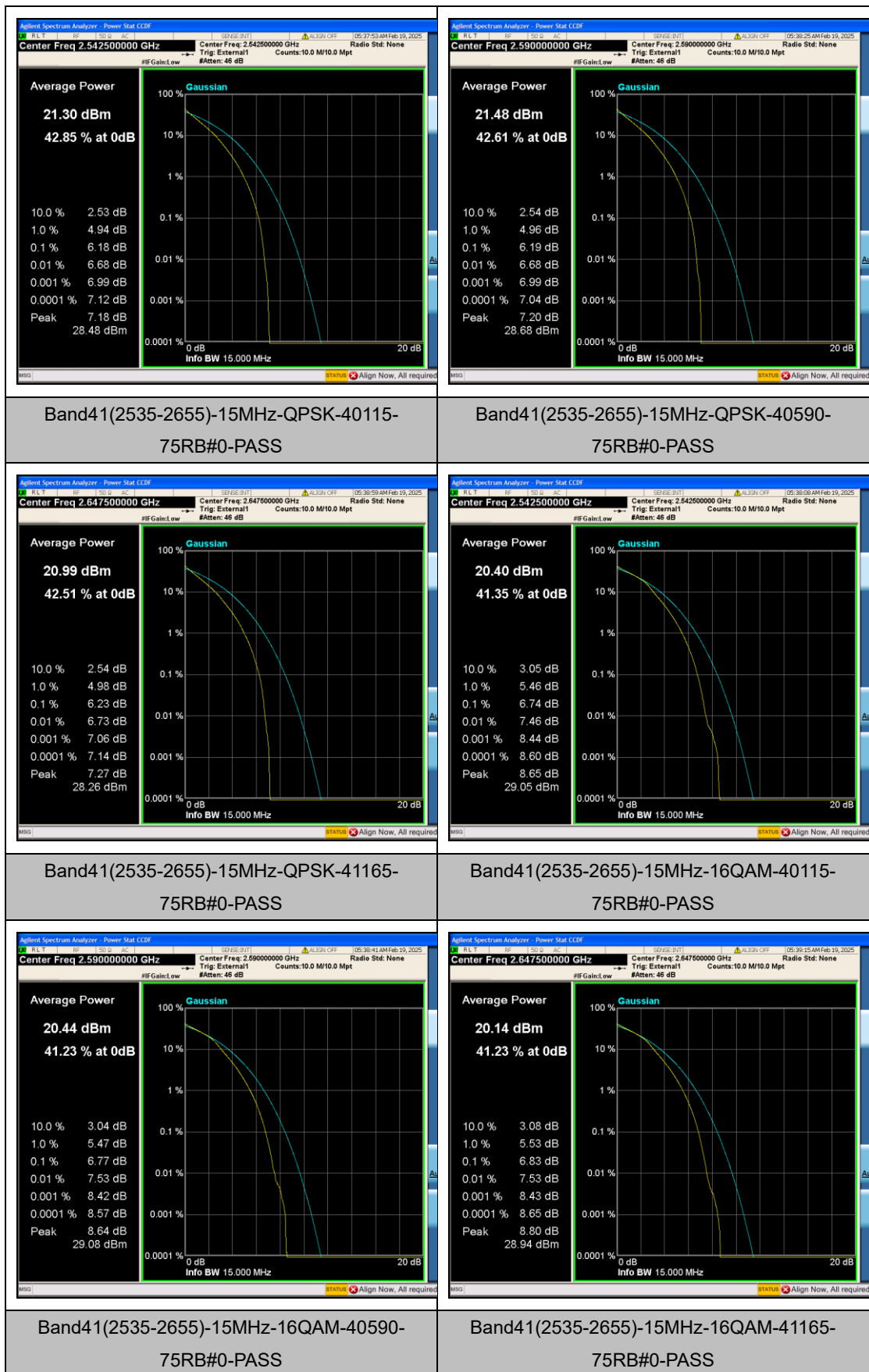
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	5.94	13	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	5.98	13	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	5.97	13	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	6.64	13	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	6.69	13	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	6.72	13	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	5.92	13	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	5.96	13	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	5.96	13	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	6.66	13	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	6.68	13	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	6.74	13	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	6.18	13	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	6.19	13	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	6.23	13	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	6.74	13	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	6.77	13	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	6.83	13	PASS

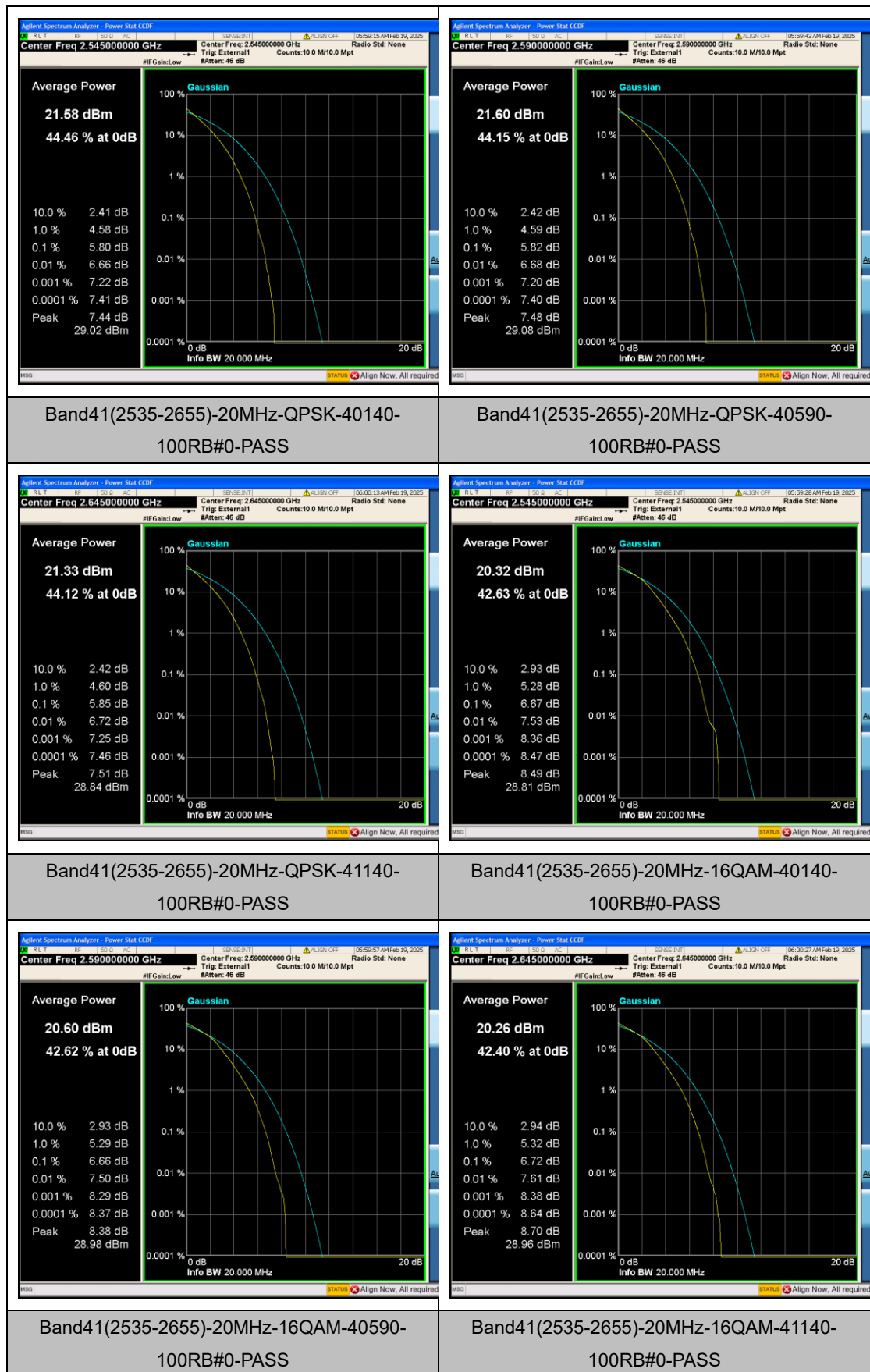
2655)							
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	5.80	13	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	5.82	13	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	5.85	13	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	6.67	13	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	6.66	13	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	6.72	13	PASS

Test Graphs









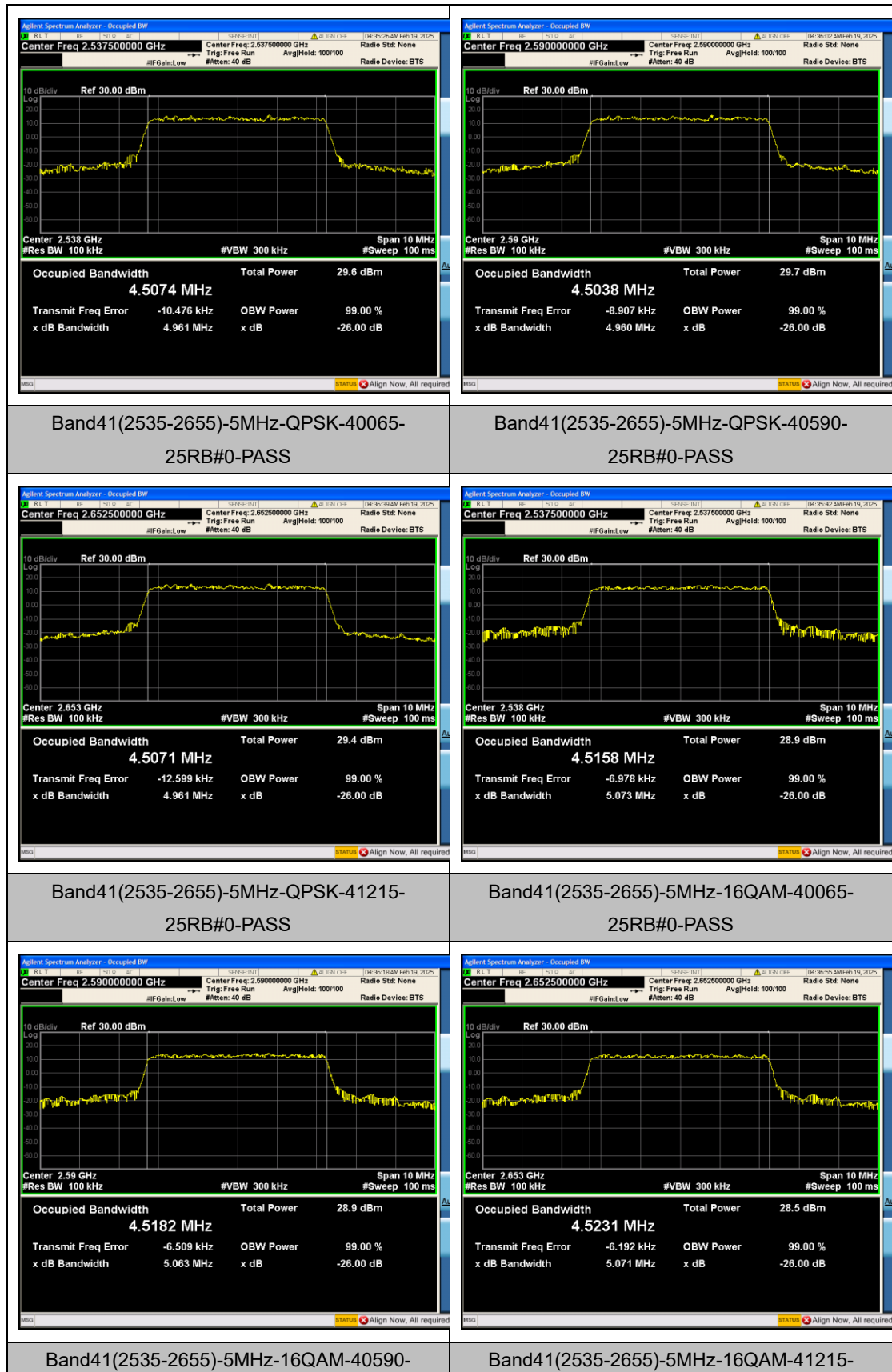
Appendix C: 26dB Bandwidth and Occupied Bandwidth

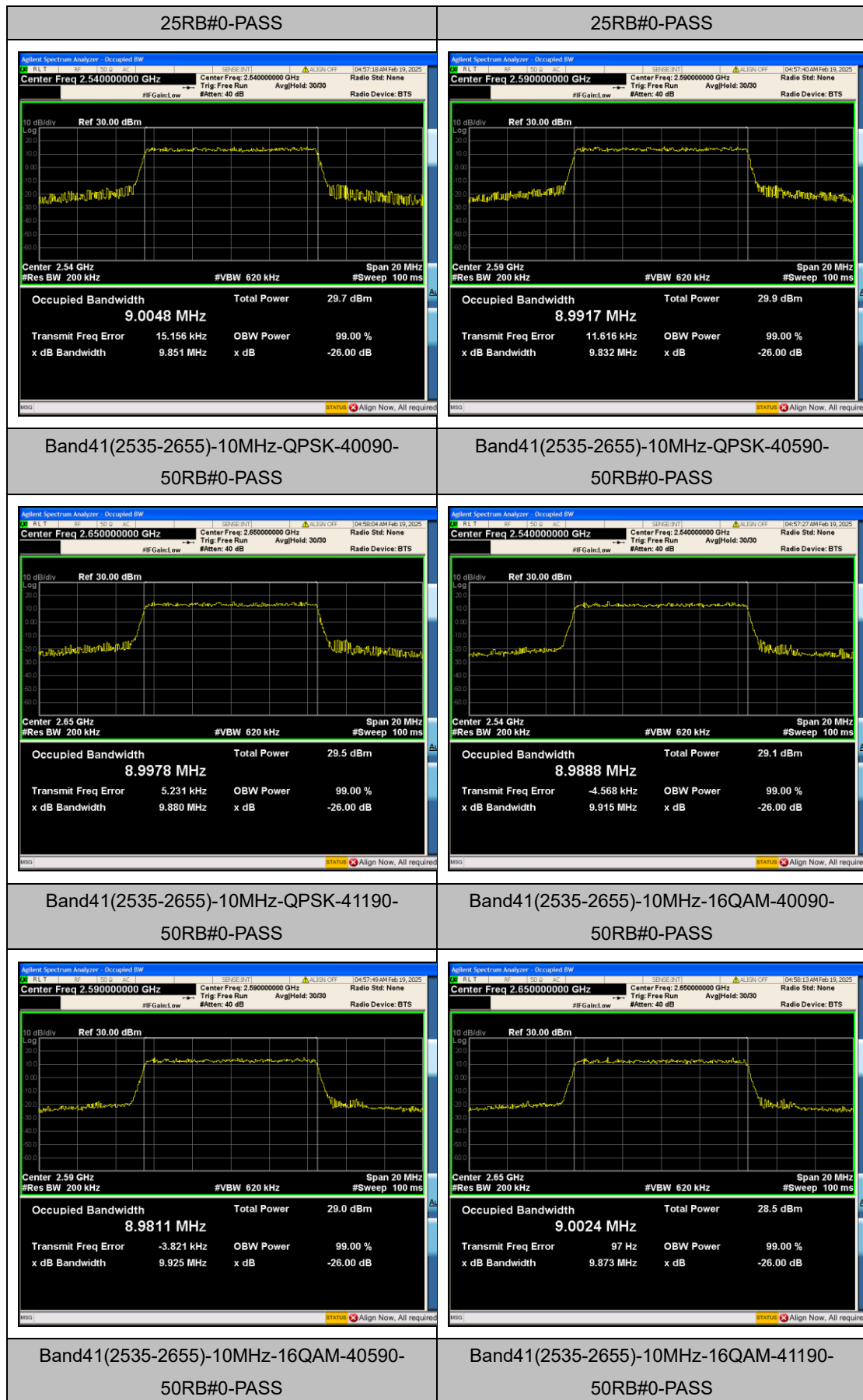
Test Result

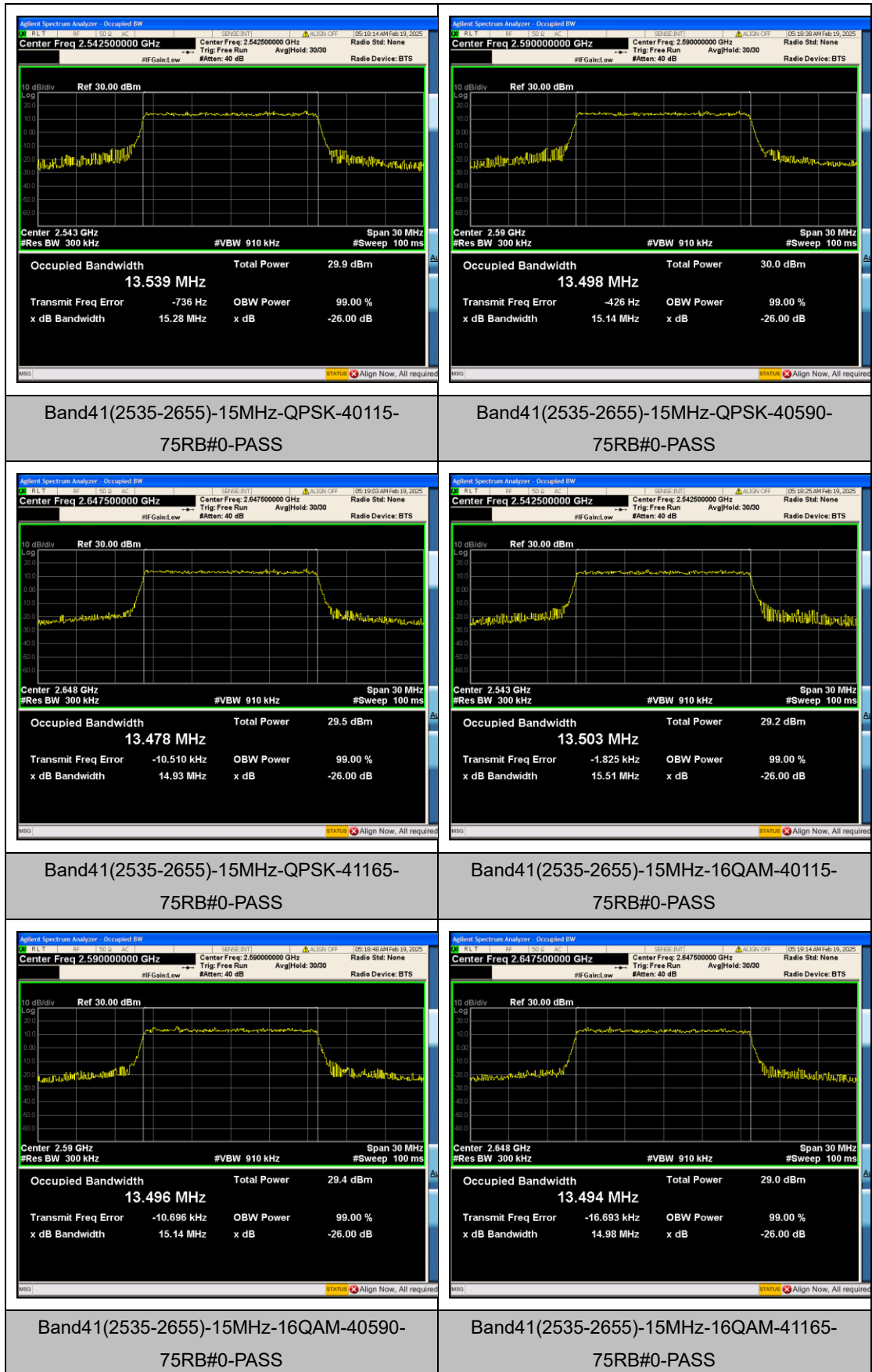
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	4.5074	4.961	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	4.5038	4.960	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	4.5071	4.961	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	4.5158	5.073	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	4.5182	5.063	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	4.5231	5.071	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	9.0048	9.851	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	8.9917	9.832	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	8.9978	9.880	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	8.9888	9.915	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	8.9811	9.925	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	9.0024	9.873	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	13.539	15.28	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	13.498	15.14	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	13.478	14.93	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	13.503	15.51	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	13.496	15.14	PASS

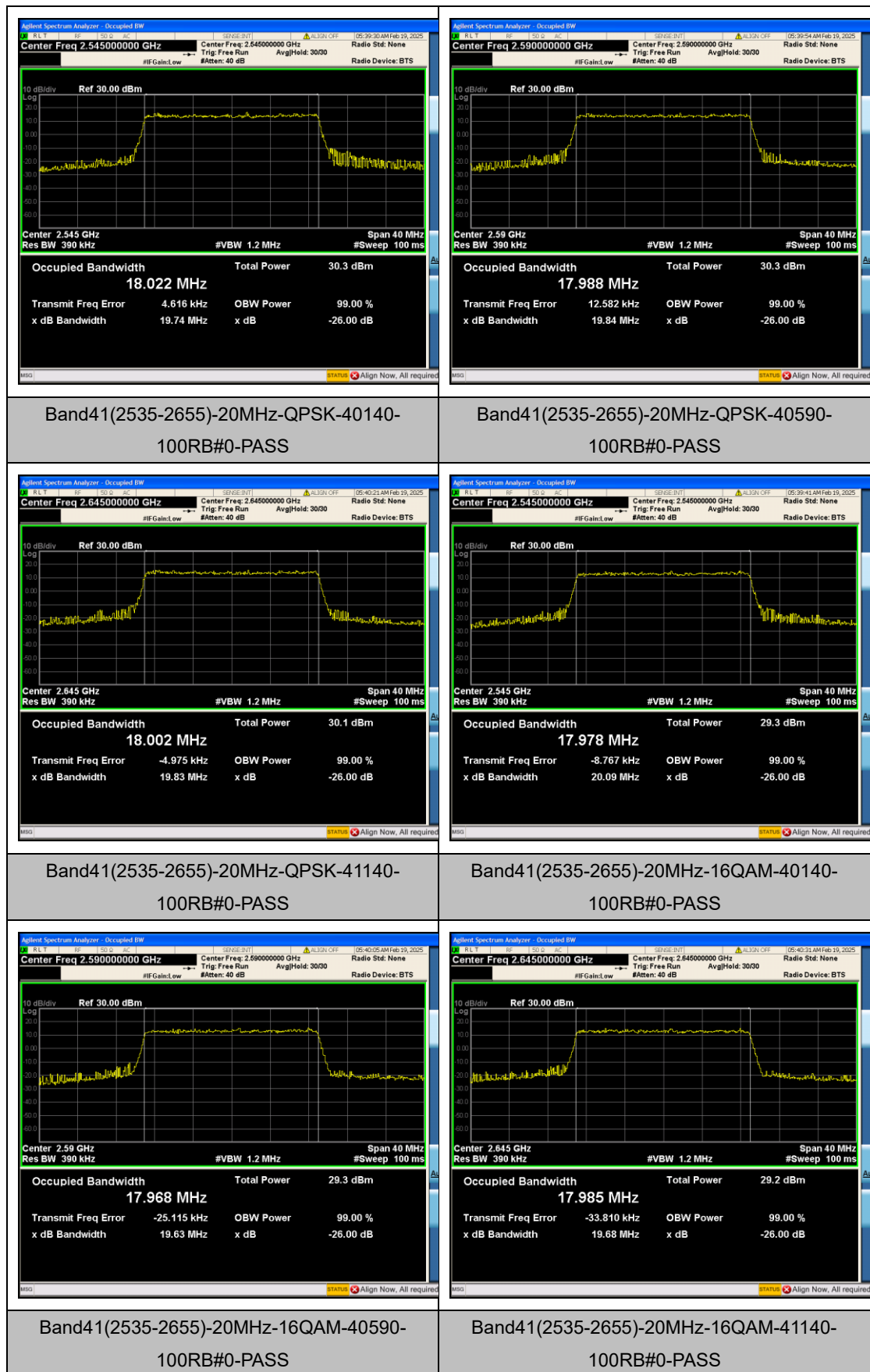
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	13.494	14.98	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	18.022	19.74	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	17.988	19.84	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	18.002	19.83	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	17.978	20.09	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	17.968	19.63	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	17.985	19.68	PASS

Test Graphs







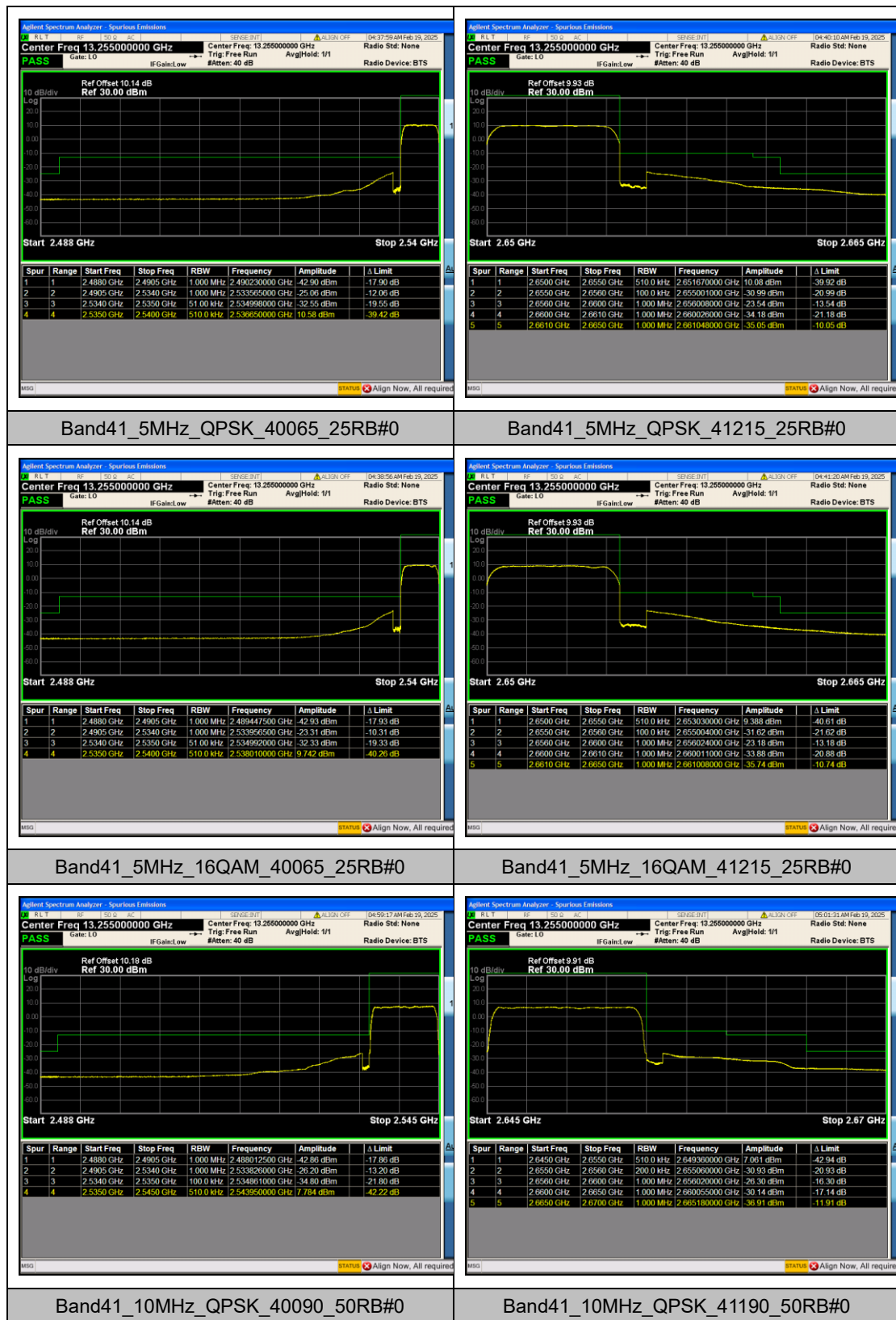


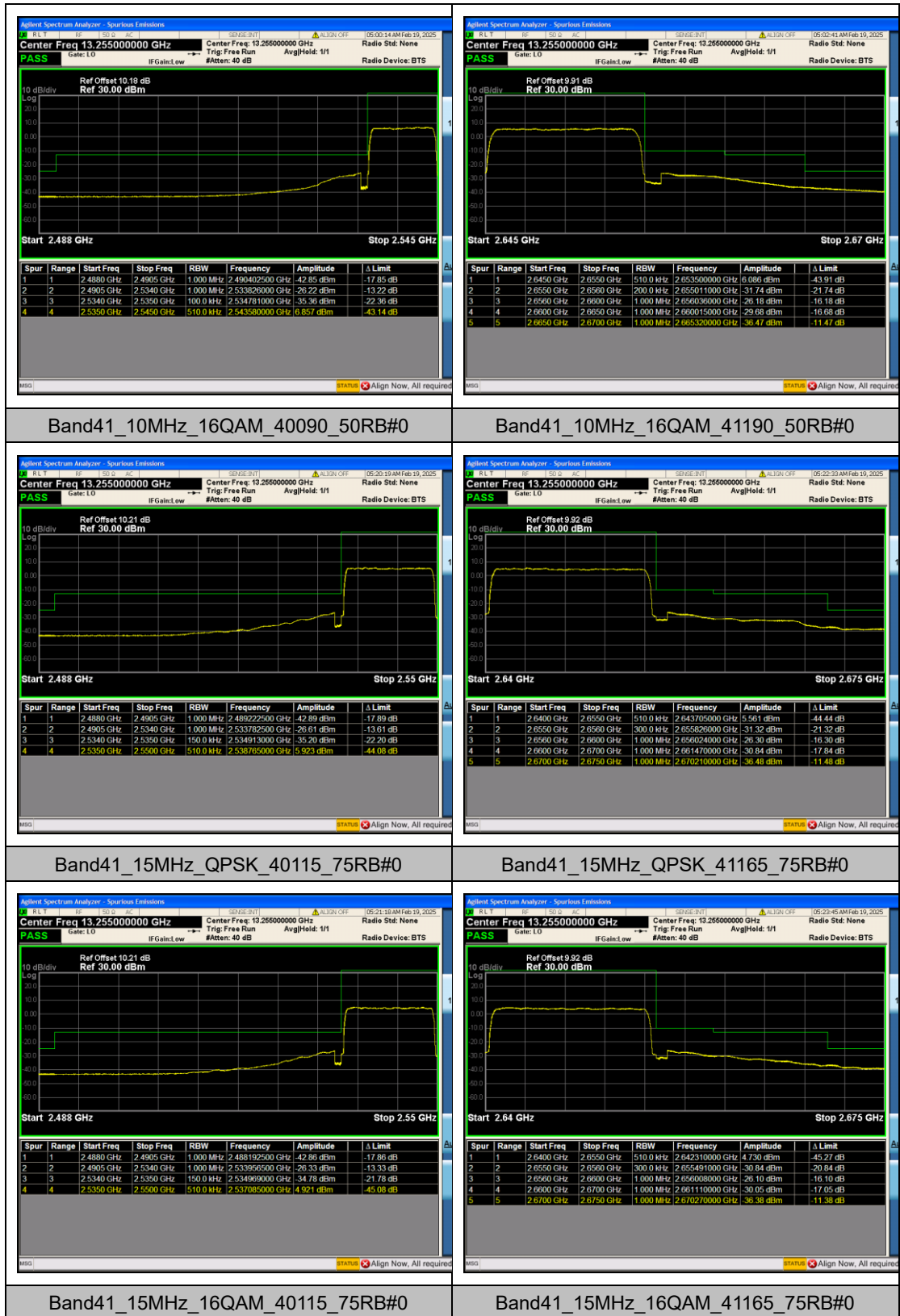
Appendix D: Band Edge

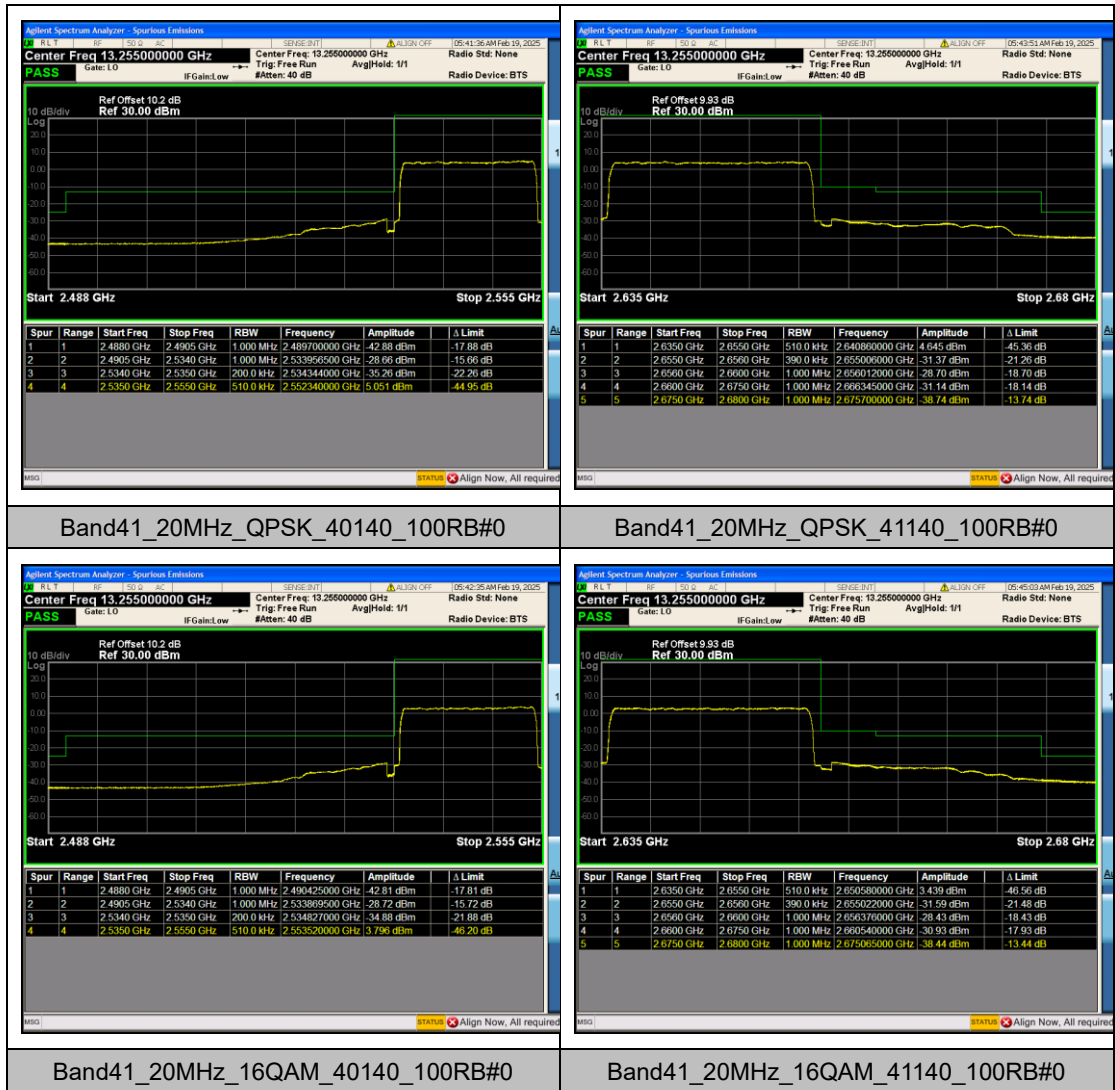
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	-25.06	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	-35.05	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	-23.31	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	-35.74	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	-26.20	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	-36.91	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	-26.22	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	-36.47	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	-26.61	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	-36.48	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	-26.33	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	-36.38	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	-28.66	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	-38.74	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	-28.72	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	-38.44	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	0.009~0.15	-67.98	PASS
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	0.15~30	-63.25	PASS
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	30~1000	-61.91	PASS
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	1000~20000	-35.47	PASS
Band41(2535-2655)	5MHz	QPSK	40065	25RB#0	20000~27000	-31.82	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	0.009~0.15	-68.40	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	0.15~30	-61.85	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	30~1000	-61.87	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	1000~20000	-36.75	PASS
Band41(2535-2655)	5MHz	QPSK	40590	25RB#0	20000~27000	-32.14	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	0.009~0.15	-68.38	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	0.15~30	-63.27	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	30~1000	-61.93	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	1000~20000	-34.42	PASS
Band41(2535-2655)	5MHz	QPSK	41215	25RB#0	20000~27000	-32.15	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	0.009~0.15	-67.05	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	0.15~30	-63.31	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	30~1000	-61.72	PASS

Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	1000~20000	- 38.12	PASS
Band41(2535-2655)	5MHz	16QAM	40065	25RB#0	20000~27000	- 32.19	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	0.009~0.15	- 67.52	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	0.15~30	- 61.81	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	30~1000	- 61.95	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	1000~20000	- 35.02	PASS
Band41(2535-2655)	5MHz	16QAM	40590	25RB#0	20000~27000	- 32.28	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	0.009~0.15	- 66.88	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	0.15~30	- 62.03	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	30~1000	- 61.97	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	1000~20000	- 37.09	PASS
Band41(2535-2655)	5MHz	16QAM	41215	25RB#0	20000~27000	- 31.88	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	0.009~0.15	- 63.33	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	0.15~30	- 61.14	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	30~1000	- 62.17	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	1000~20000	- 35.55	PASS
Band41(2535-2655)	10MHz	QPSK	40090	50RB#0	20000~27000	- 32.18	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	0.009~0.15	- 68.12	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	0.15~30	- 65.16	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	30~1000	- 61.46	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	1000~20000	- 37.75	PASS
Band41(2535-2655)	10MHz	QPSK	40590	50RB#0	20000~27000	- 32.23	PASS

Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	0.009~0.15	- 68.45	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	0.15~30	- 62.11	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	30~1000	- 61.87	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	1000~20000	- 35.98	PASS
Band41(2535-2655)	10MHz	QPSK	41190	50RB#0	20000~27000	- 31.93	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	0.009~0.15	- 68.43	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	0.15~30	- 61.99	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	30~1000	- 61.79	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	1000~20000	- 38.46	PASS
Band41(2535-2655)	10MHz	16QAM	40090	50RB#0	20000~27000	- 32.07	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	0.009~0.15	- 67.69	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	0.15~30	- 59.63	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	30~1000	- 61.68	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	1000~20000	- 38.77	PASS
Band41(2535-2655)	10MHz	16QAM	40590	50RB#0	20000~27000	- 32.05	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	0.009~0.15	- 65.82	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	0.15~30	- 61.12	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	30~1000	- 61.95	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	1000~20000	- 37.79	PASS
Band41(2535-2655)	10MHz	16QAM	41190	50RB#0	20000~27000	- 32.04	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	0.009~0.15	- 68.88	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	0.15~30	- 63.69	PASS

Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	30~1000	- 61.80	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	1000~20000	- 37.93	PASS
Band41(2535-2655)	15MHz	QPSK	40115	75RB#0	20000~27000	- 32.42	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	0.009~0.15	- 68.08	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	0.15~30	- 62.23	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	30~1000	- 61.98	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	1000~20000	- 38.61	PASS
Band41(2535-2655)	15MHz	QPSK	40590	75RB#0	20000~27000	- 32.10	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	0.009~0.15	- 66.64	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	0.15~30	- 64.80	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	30~1000	- 61.76	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	1000~20000	- 38.09	PASS
Band41(2535-2655)	15MHz	QPSK	41165	75RB#0	20000~27000	- 32.20	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	0.009~0.15	- 69.52	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	0.15~30	- 62.89	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	30~1000	- 61.66	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	1000~20000	- 38.66	PASS
Band41(2535-2655)	15MHz	16QAM	40115	75RB#0	20000~27000	- 31.95	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	0.009~0.15	- 69.20	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	0.15~30	- 64.67	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	30~1000	- 61.83	PASS
Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	1000~20000	- 38.19	PASS

Band41(2535-2655)	15MHz	16QAM	40590	75RB#0	20000~27000	- 32.39	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	0.009~0.15	- 68.62	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	0.15~30	- 61.41	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	30~1000	- 61.63	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	1000~20000	- 38.72	PASS
Band41(2535-2655)	15MHz	16QAM	41165	75RB#0	20000~27000	- 32.15	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	0.009~0.15	- 69.53	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	0.15~30	- 61.69	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	30~1000	- 61.89	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	1000~20000	- 38.49	PASS
Band41(2535-2655)	20MHz	QPSK	40140	100RB#0	20000~27000	- 32.12	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	0.009~0.15	- 69.22	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	0.15~30	- 63.10	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	30~1000	- 62.05	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	1000~20000	- 38.30	PASS
Band41(2535-2655)	20MHz	QPSK	40590	100RB#0	20000~27000	- 32.06	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	0.009~0.15	- 69.00	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	0.15~30	- 61.52	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	30~1000	- 61.67	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	1000~20000	- 38.83	PASS
Band41(2535-2655)	20MHz	QPSK	41140	100RB#0	20000~27000	- 32.09	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	0.009~0.15	- 67.31	PASS

Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	0.15~30	- 62.69	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	30~1000	- 61.73	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	1000~20000	- 38.29	PASS
Band41(2535-2655)	20MHz	16QAM	40140	100RB#0	20000~27000	- 32.29	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	0.009~0.15	- 69.72	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	0.15~30	- 61.49	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	30~1000	- 61.79	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	1000~20000	- 38.26	PASS
Band41(2535-2655)	20MHz	16QAM	40590	100RB#0	20000~27000	- 31.61	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	0.009~0.15	- 68.04	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	0.15~30	- 61.11	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	30~1000	- 61.72	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	1000~20000	- 37.68	PASS
Band41(2535-2655)	20MHz	16QAM	41140	100RB#0	20000~27000	- 32.19	PASS

Test Graphs

