

FCC LTE Band Test Data

FCC ID : 2BDCL-M616A

Company: : Signalinks Communication Technology Co.,Ltd

EUT : 4G LTE Mobile Wifi

Model Number : M616A

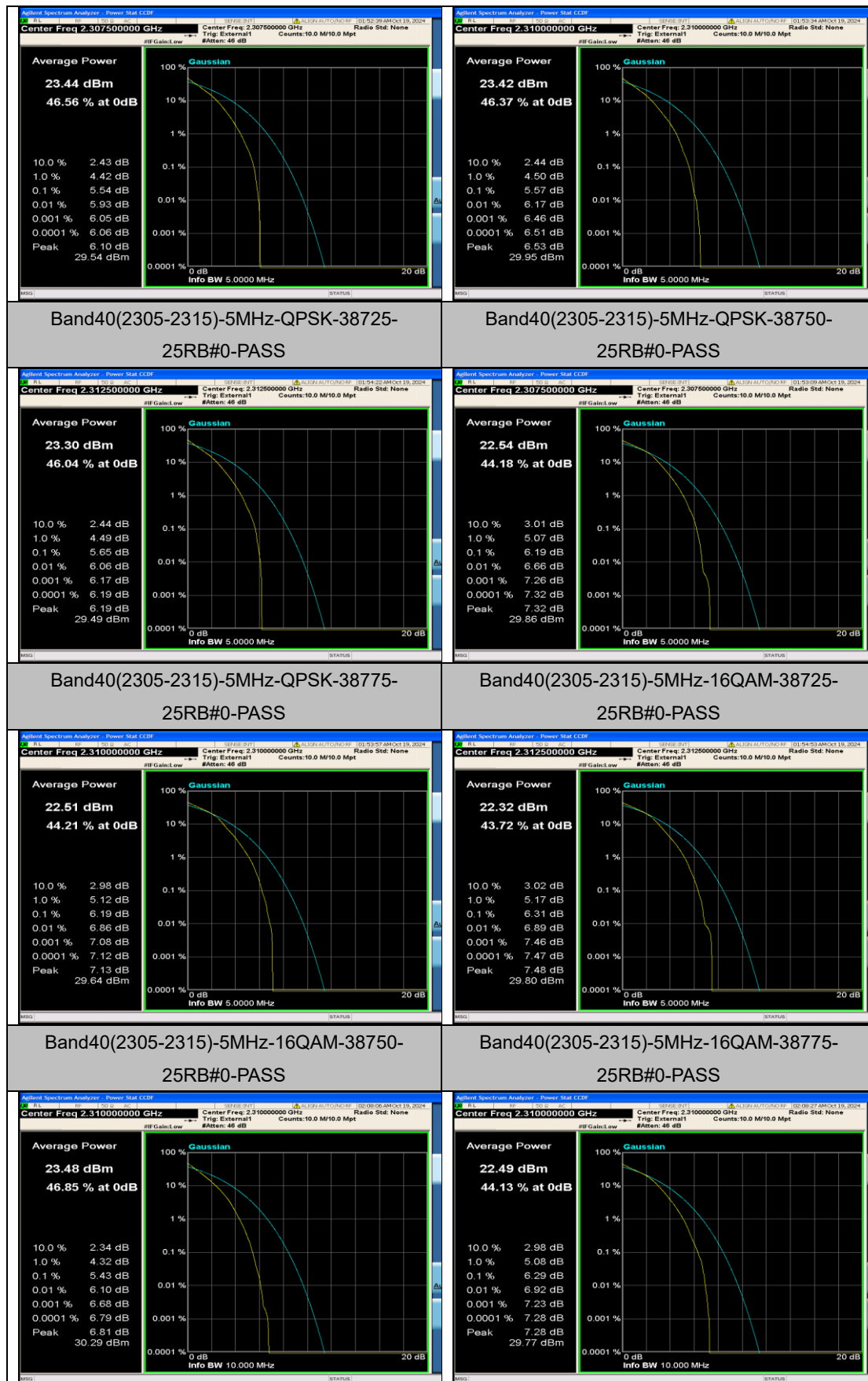
Reviewed By : Eric Wang

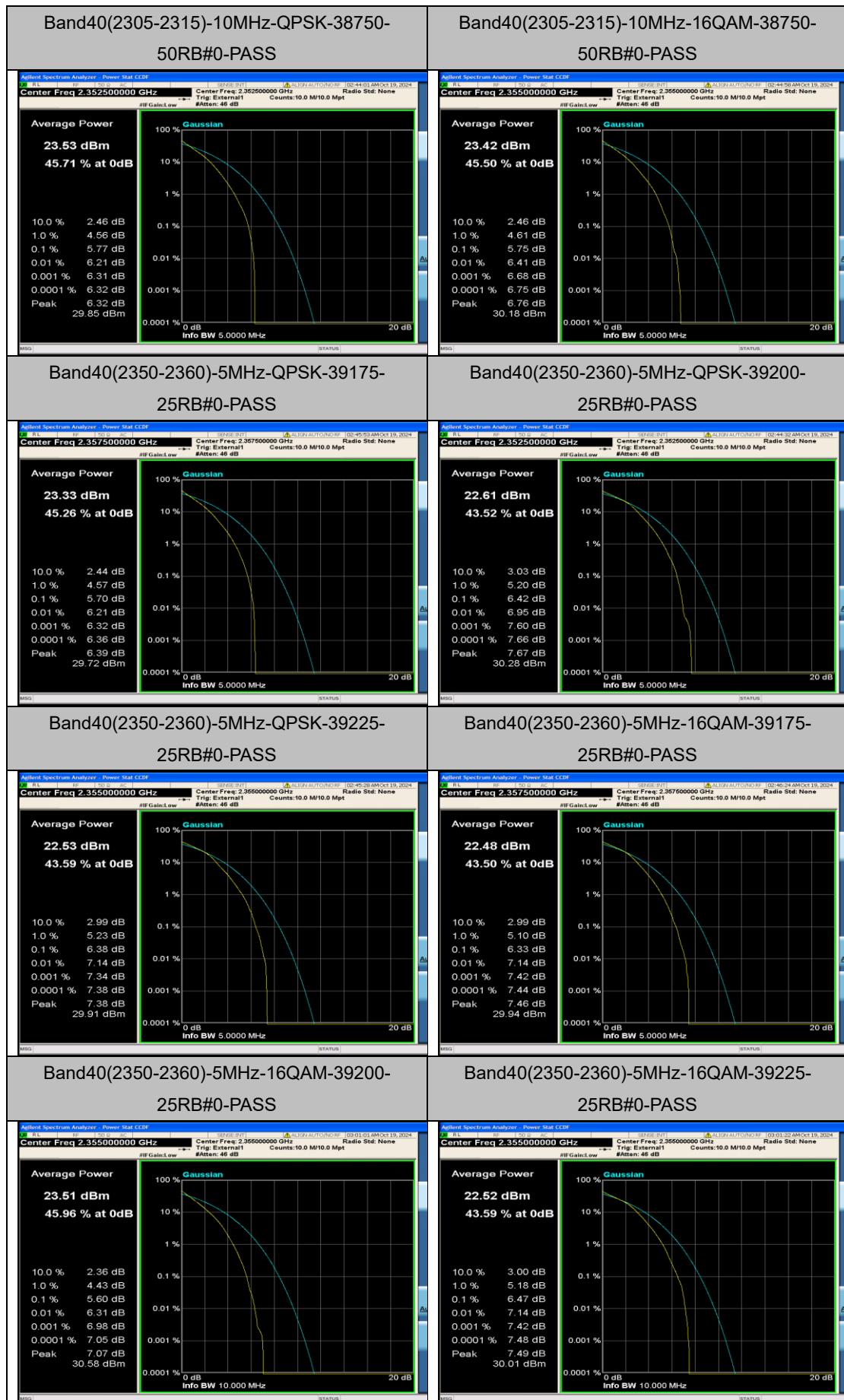
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	5.54	13	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	5.57	13	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	5.65	13	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	6.19	13	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	6.19	13	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	6.31	13	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	5.43	13	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	6.29	13	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	5.77	13	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	5.75	13	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	5.70	13	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	6.42	13	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	6.38	13	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	6.33	13	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	5.60	13	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	6.47	13	PASS

Test Graphs





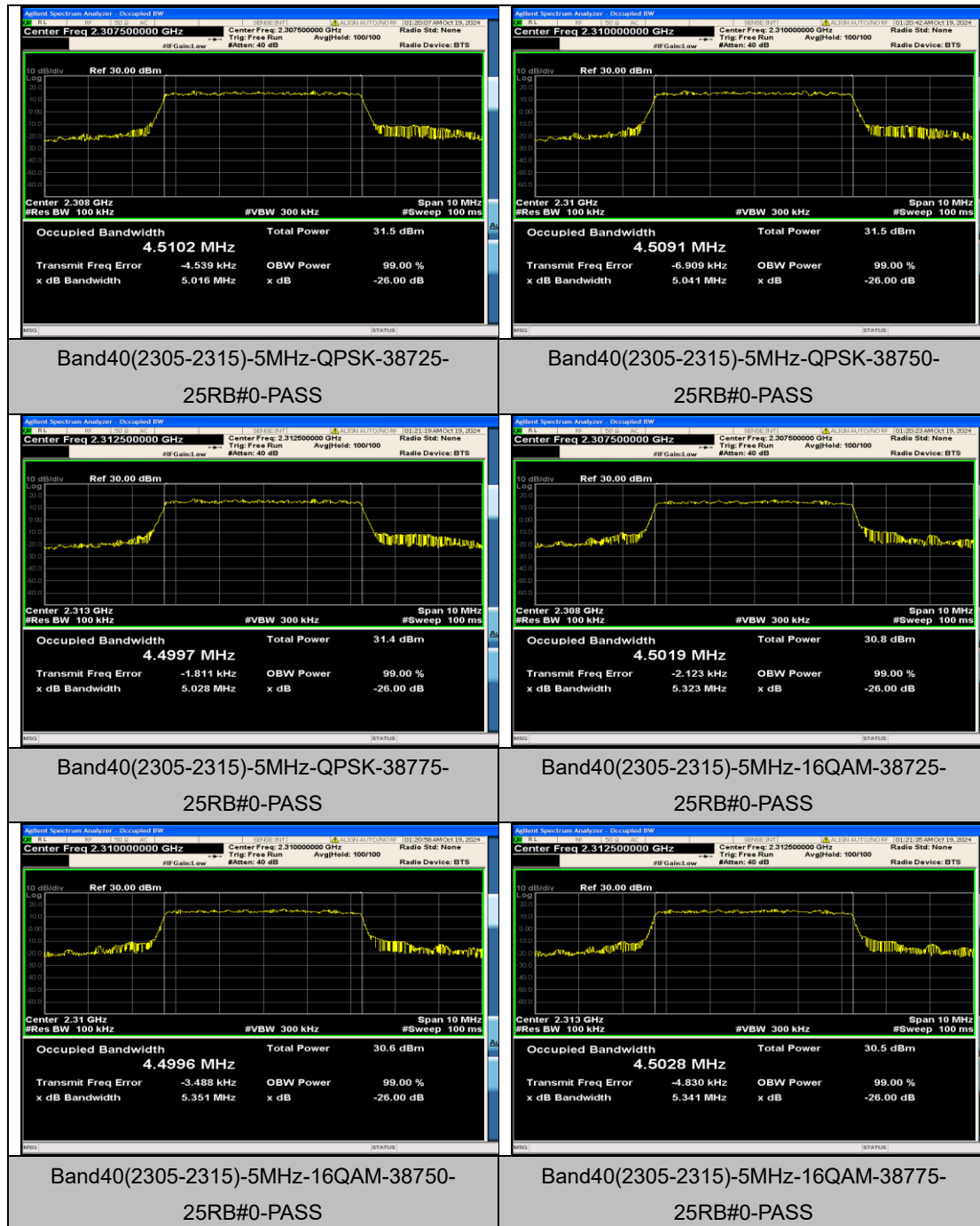
Band40(2350-2360)-10MHz-QPSK-39200- 50RB#0-PASS	Band40(2350-2360)-10MHz-16QAM-39200- 50RB#0-PASS
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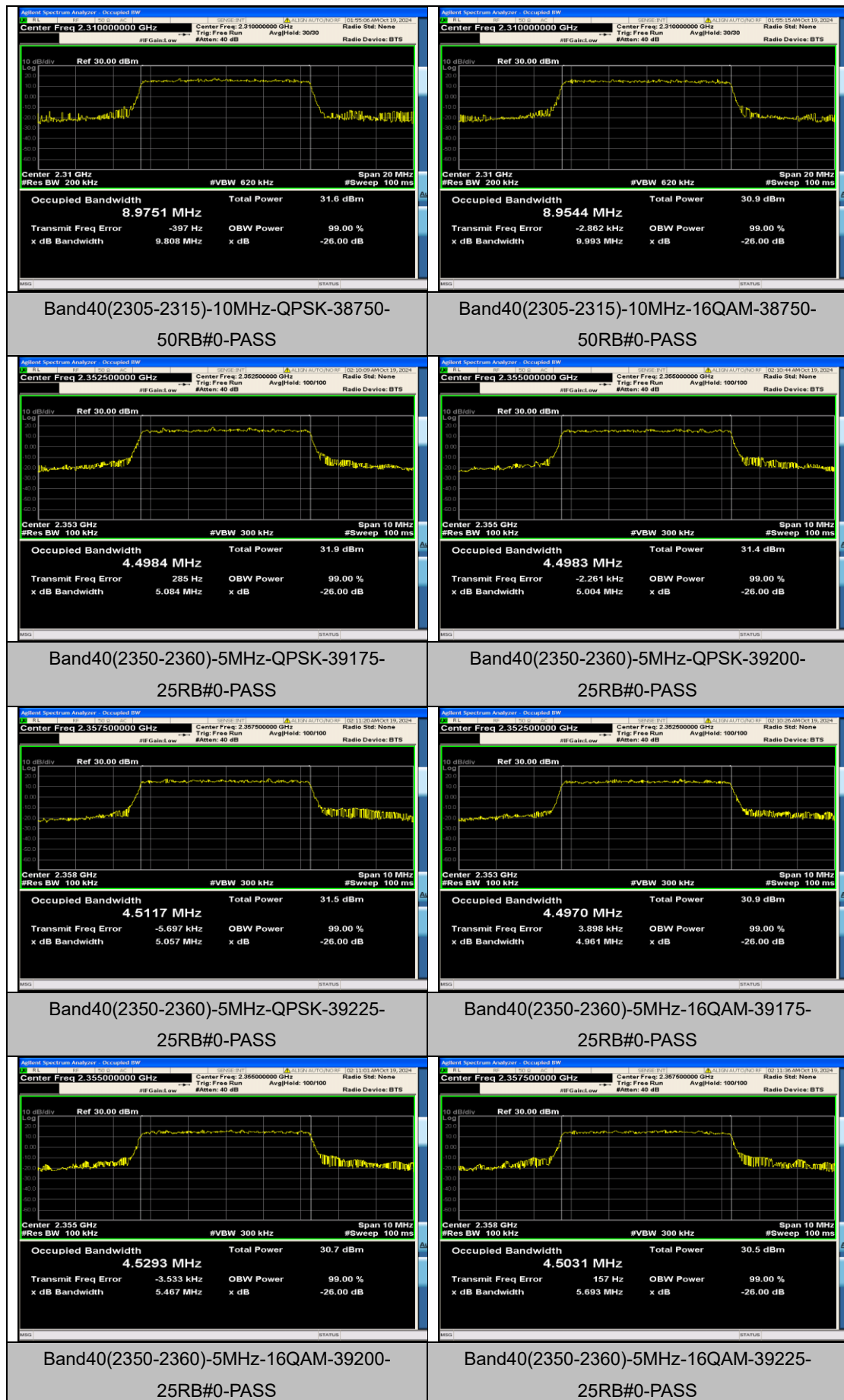
Appendix C: 26dB Bandwidth and Occupied Bandwidth

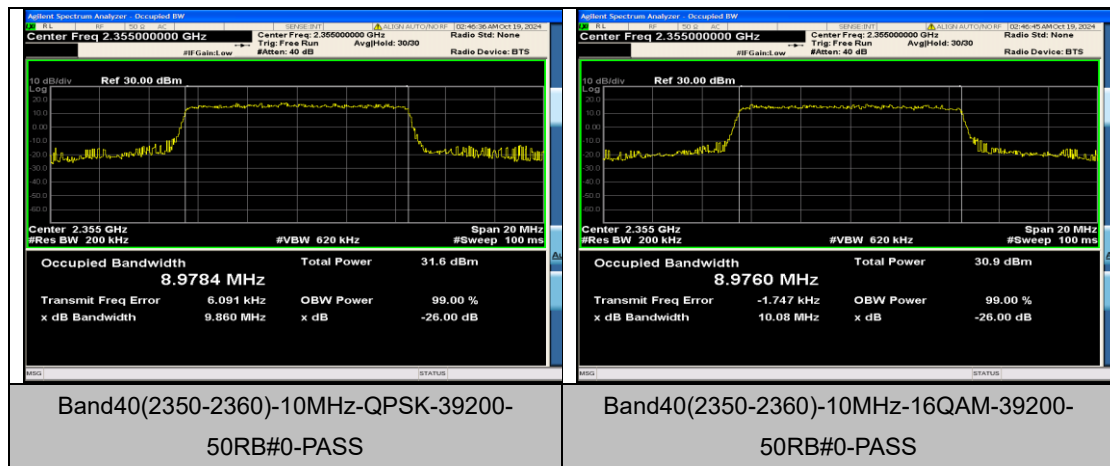
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	4.5102	5.016	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	4.5091	5.041	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	4.4997	5.028	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	4.5019	5.323	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	4.4996	5.351	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	4.5028	5.341	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	8.9751	9.808	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	8.9544	9.993	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	4.4984	5.084	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	4.4983	5.004	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	4.5117	5.057	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	4.4970	4.961	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	4.5293	5.467	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	4.5031	5.693	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	8.9784	9.860	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	8.9760	10.08	PASS

Test Graphs





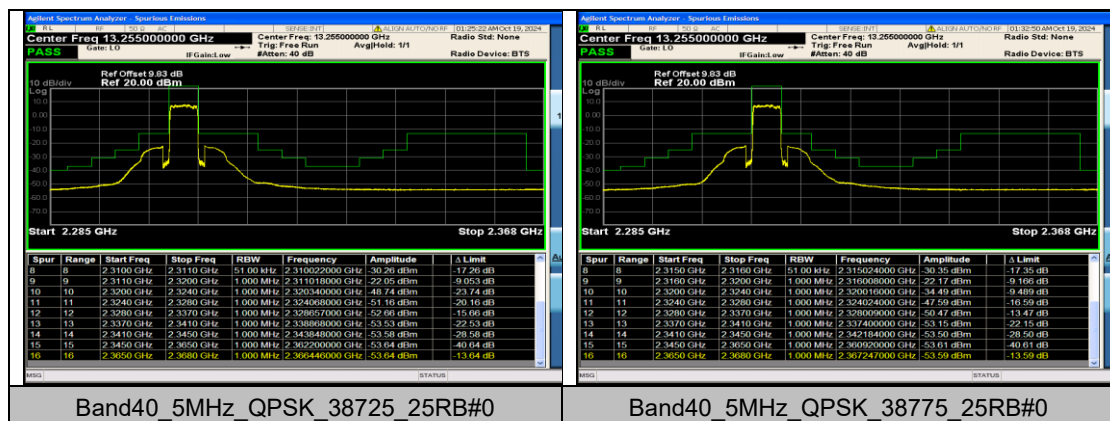


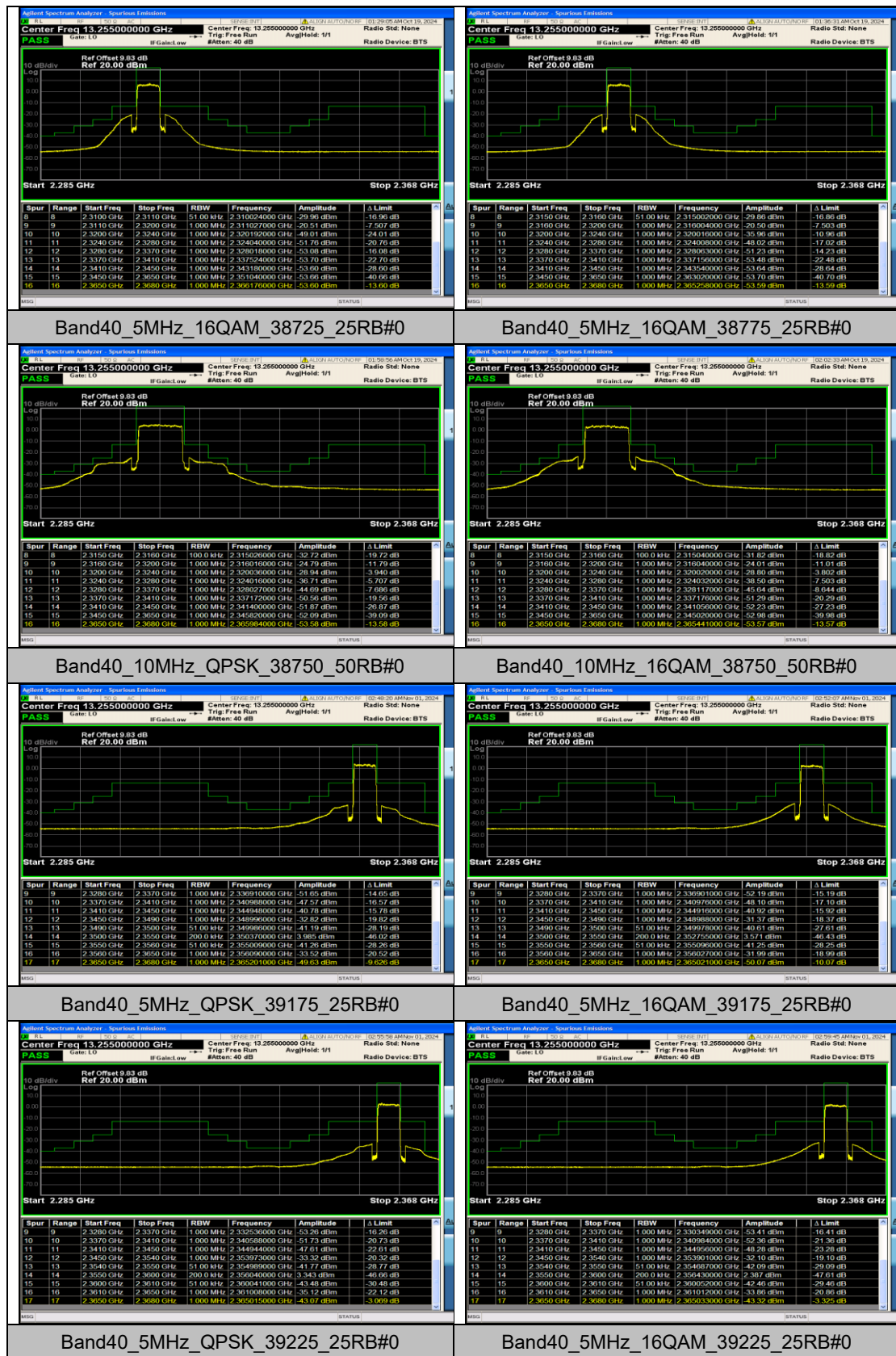
Appendix D: Band Edge

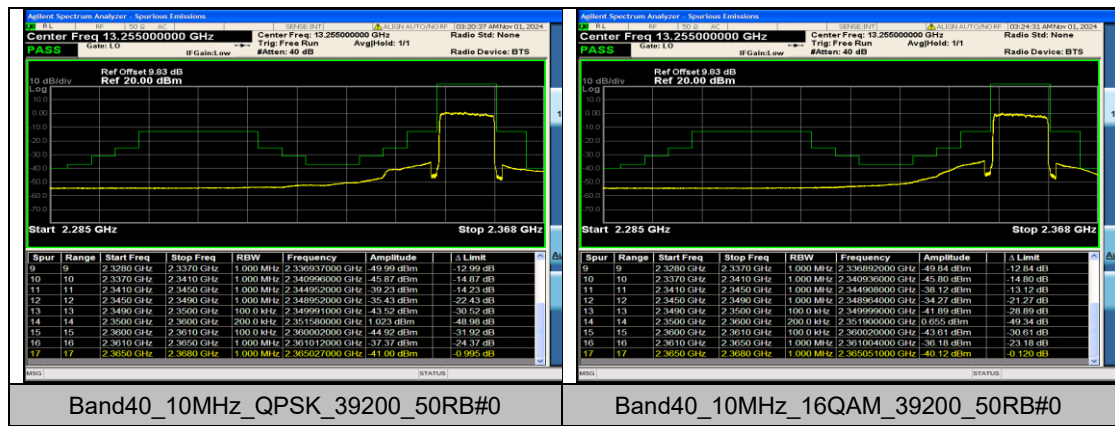
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	-33.87	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	-21.75	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	-20.51	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	-20.37	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	-28.94	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	-28.43	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	-49.63	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	-43.07	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	-50.07	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	-43.32	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	-41.00	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	-40.12	PASS

Test Graphs







Agilent Spectrum Analyzer - Spurious Emissions

Center Freq 13.255000000 GHz

Ref Offset 0.93 dB
Ref 20.00 dBm

Start 2.285 GHz

Stop 2.368 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
9	9	2.3280 GHz	2.3370 GHz	1.000 MHz	2.336952000 GHz	-49.84 dBm	-12.84 dB
10	10	2.3370 GHz	2.3410 GHz	1.000 MHz	2.340936000 GHz	-45.80 dBm	-14.80 dB
11	11	2.3410 GHz	2.3450 GHz	1.000 MHz	2.344908000 GHz	-38.12 dBm	-13.12 dB
12	12	2.3450 GHz	2.3490 GHz	1.000 MHz	2.348964000 GHz	-34.27 dBm	-21.27 dB
13	13	2.3490 GHz	2.3500 GHz	100.0 kHz	2.349999000 GHz	-41.89 dBm	-28.89 dB
14	14	2.3500 GHz	2.3600 GHz	200.0 kHz	2.351900000 GHz	-0.655 dBm	-49.34 dB
15	15	2.3600 GHz	2.3610 GHz	100.0 kHz	2.360020000 GHz	-43.61 dBm	-30.61 dB
16	16	2.3610 GHz	2.3650 GHz	1.000 MHz	2.361048000 GHz	-36.18 dBm	-23.18 dB
17	17	2.3650 GHz	2.3680 GHz	1.000 MHz	2.365051000 GHz	-40.12 dBm	-0.120 dB

Band40_10MHz_16QAM_39200_50RB#0

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	0.009~0.15	-80.28	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	0.15~30	-62.05	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	30~1000	-62.26	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	1000~3000	-44.85	PASS
Band40(2305-2315)	5MHz	QPSK	38725	25RB#0	3000~26500	-52.47	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	0.009~0.15	-80.70	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	0.15~30	-62.71	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	30~1000	-62.52	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	1000~3000	-44.41	PASS
Band40(2305-2315)	5MHz	QPSK	38750	25RB#0	3000~26500	-52.40	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	0.009~0.15	-79.76	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	0.15~30	-62.02	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	30~1000	-62.50	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	1000~3000	-44.54	PASS
Band40(2305-2315)	5MHz	QPSK	38775	25RB#0	3000~26500	-52.48	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	0.009~0.15	-81.55	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	0.15~30	-63.24	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	30~1000	-62.30	PASS

Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	1000~3000	- 46.40	PASS
Band40(2305-2315)	5MHz	16QAM	38725	25RB#0	3000~2650 0	- 52.45	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	0.009~0.15	- 81.37	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	0.15~30	- 63.42	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	30~1000	- 62.45	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	1000~3000	- 45.23	PASS
Band40(2305-2315)	5MHz	16QAM	38750	25RB#0	3000~2650 0	- 52.48	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	0.009~0.15	- 82.57	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	0.15~30	- 61.64	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	30~1000	- 62.41	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	1000~3000	- 45.69	PASS
Band40(2305-2315)	5MHz	16QAM	38775	25RB#0	3000~2650 0	- 52.40	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	0.009~0.15	- 70.18	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	0.15~30	- 61.56	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	30~1000	- 62.18	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	1000~3000	- 47.34	PASS
Band40(2305-2315)	10MHz	QPSK	38750	50RB#0	3000~2650 0	- 52.55	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	0.009~0.15	- 72.06	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	0.15~30	- 60.98	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	30~1000	- 62.31	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	1000~3000	- 47.65	PASS
Band40(2305-2315)	10MHz	16QAM	38750	50RB#0	3000~2650 0	- 52.46	PASS

Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	0.009~0.15	- 79.06	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	0.15~30	- 62.53	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	30~1000	- 62.27	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	1000~3000	- 45.73	PASS
Band40(2350-2360)	5MHz	QPSK	39175	25RB#0	3000~2650 0	- 52.45	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	0.009~0.15	- 78.49	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	0.15~30	- 63.93	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	30~1000	- 62.44	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	1000~3000	- 45.74	PASS
Band40(2350-2360)	5MHz	QPSK	39200	25RB#0	3000~2650 0	- 52.56	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	0.009~0.15	- 81.78	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	0.15~30	- 62.88	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	30~1000	- 62.44	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	1000~3000	- 45.90	PASS
Band40(2350-2360)	5MHz	QPSK	39225	25RB#0	3000~2650 0	- 52.61	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	0.009~0.15	- 81.30	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	0.15~30	- 62.82	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	30~1000	- 62.35	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	1000~3000	- 46.69	PASS
Band40(2350-2360)	5MHz	16QAM	39175	25RB#0	3000~2650 0	- 52.54	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	0.009~0.15	- 81.00	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	0.15~30	- 64.04	PASS

Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	30~1000	- 62.37	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	1000~3000	- 47.00	PASS
Band40(2350-2360)	5MHz	16QAM	39200	25RB#0	3000~2650 0	- 52.52	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	0.009~0.15	- 81.89	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	0.15~30	- 62.49	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	30~1000	- 62.48	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	1000~3000	- 47.05	PASS
Band40(2350-2360)	5MHz	16QAM	39225	25RB#0	3000~2650 0	- 52.49	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	0.009~0.15	- 80.35	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	0.15~30	- 63.04	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	30~1000	- 62.35	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	1000~3000	- 48.58	PASS
Band40(2350-2360)	10MHz	QPSK	39200	50RB#0	3000~2650 0	- 52.55	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	0.009~0.15	- 82.00	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	0.15~30	- 65.26	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	30~1000	- 62.47	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	1000~3000	- 48.47	PASS
Band40(2350-2360)	10MHz	16QAM	39200	50RB#0	3000~2650 0	- 52.48	PASS

Test Graphs

