

LTE – Bnad40 Conducted Test Data

Product Name: Smart POS Terminal

Trade Mark: 

Test Model: P10

FCC ID: 2ALKI-P10

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Output Power (dBm)	E.I.R.P. (dBm)	Verdict
Band40	5MHz	QPSK	38675	1RB#0	23.16	21.82	PASS
Band40	5MHz	QPSK	38675	1RB#12	23.01	21.67	PASS
Band40	5MHz	QPSK	38675	1RB#24	22.99	21.65	PASS
Band40	5MHz	QPSK	38675	12RB#0	22.15	20.81	PASS
Band40	5MHz	QPSK	38675	12RB#6	22.15	20.81	PASS
Band40	5MHz	QPSK	38675	12RB#13	22.22	20.88	PASS
Band40	5MHz	QPSK	38675	25RB#0	22.31	20.97	PASS
Band40	5MHz	QPSK	38725	1RB#0	23.23	21.89	PASS
Band40	5MHz	QPSK	38725	1RB#12	23.18	21.84	PASS
Band40	5MHz	QPSK	38725	1RB#24	23.37	22.03	PASS
Band40	5MHz	QPSK	38725	12RB#0	22.22	20.88	PASS
Band40	5MHz	QPSK	38725	12RB#6	22.28	20.94	PASS
Band40	5MHz	QPSK	38725	12RB#13	22.24	20.9	PASS
Band40	5MHz	QPSK	38725	25RB#0	22.36	21.02	PASS
Band40	5MHz	QPSK	38750	1RB#0	23.35	22.01	PASS
Band40	5MHz	QPSK	38750	1RB#12	23.22	21.88	PASS
Band40	5MHz	QPSK	38750	1RB#24	23.03	21.69	PASS
Band40	5MHz	QPSK	38750	12RB#0	22.14	20.8	PASS
Band40	5MHz	QPSK	38750	12RB#6	22.14	20.8	PASS
Band40	5MHz	QPSK	38750	12RB#13	22.25	20.91	PASS
Band40	5MHz	QPSK	38750	25RB#0	22.19	20.85	PASS
Band40	5MHz	QPSK	38775	1RB#0	23.40	22.06	PASS
Band40	5MHz	QPSK	38775	1RB#12	23.25	21.91	PASS
Band40	5MHz	QPSK	38775	1RB#24	23.39	22.05	PASS
Band40	5MHz	QPSK	38775	12RB#0	22.12	20.78	PASS
Band40	5MHz	QPSK	39150	1RB#0	21.64	20.3	PASS
Band40	5MHz	QPSK	39150	1RB#12	22.52	21.18	PASS
Band40	5MHz	QPSK	39150	1RB#24	22.50	21.16	PASS
Band40	5MHz	QPSK	39150	12RB#0	21.60	20.26	PASS
Band40	5MHz	QPSK	39175	1RB#0	22.73	21.39	PASS
Band40	5MHz	QPSK	39175	1RB#12	22.77	21.43	PASS

Band40	5MHz	QPSK	39175	1RB#24	22.72	21.38	PASS
Band40	5MHz	QPSK	39175	12RB#0	20.37	19.03	PASS
Band40	5MHz	QPSK	39175	12RB#6	21.56	20.22	PASS
Band40	5MHz	QPSK	39175	12RB#13	20.53	19.19	PASS
Band40	5MHz	QPSK	39175	25RB#0	21.56	20.22	PASS
Band40	5MHz	QPSK	39200	1RB#0	22.54	21.2	PASS
Band40	5MHz	QPSK	39200	1RB#12	22.55	21.21	PASS
Band40	5MHz	QPSK	39200	1RB#24	22.49	21.15	PASS
Band40	5MHz	QPSK	39200	12RB#0	21.56	20.22	PASS
Band40	5MHz	QPSK	39200	12RB#6	21.57	20.23	PASS
Band40	5MHz	QPSK	39200	12RB#13	21.67	20.33	PASS
Band40	5MHz	QPSK	39200	25RB#0	21.69	20.35	PASS
Band40	5MHz	QPSK	39225	1RB#0	22.75	21.41	PASS
Band40	5MHz	QPSK	39225	1RB#12	22.49	21.15	PASS
Band40	5MHz	QPSK	39225	1RB#24	22.56	21.22	PASS
Band40	5MHz	QPSK	39225	12RB#0	21.66	20.32	PASS
Band40	5MHz	QPSK	39225	12RB#6	21.64	20.3	PASS
Band40	5MHz	QPSK	39225	12RB#13	21.64	20.3	PASS
Band40	5MHz	QPSK	39225	25RB#0	21.58	20.24	PASS
Band40	5MHz	16QAM	38675	1RB#0	20.23	18.89	PASS
Band40	5MHz	16QAM	38675	1RB#12	21.88	20.54	PASS
Band40	5MHz	16QAM	38675	1RB#24	21.87	20.53	PASS
Band40	5MHz	16QAM	38675	12RB#0	21.14	19.8	PASS
Band40	5MHz	16QAM	38675	12RB#6	21.13	19.79	PASS
Band40	5MHz	16QAM	38675	12RB#13	21.10	19.76	PASS
Band40	5MHz	16QAM	38675	25RB#0	21.17	19.83	PASS
Band40	5MHz	16QAM	38725	1RB#0	20.61	19.27	PASS
Band40	5MHz	16QAM	38725	1RB#12	22.41	21.07	PASS
Band40	5MHz	16QAM	38725	1RB#24	20.73	19.39	PASS
Band40	5MHz	16QAM	38725	12RB#0	21.23	19.89	PASS
Band40	5MHz	16QAM	38725	12RB#6	21.06	19.72	PASS
Band40	5MHz	16QAM	38725	12RB#13	21.24	19.9	PASS
Band40	5MHz	16QAM	38725	25RB#0	21.32	19.98	PASS
Band40	5MHz	16QAM	38750	1RB#0	21.45	20.11	PASS
Band40	5MHz	16QAM	38750	1RB#12	20.96	19.62	PASS
Band40	5MHz	16QAM	38750	1RB#24	22.43	21.09	PASS
Band40	5MHz	16QAM	38750	12RB#0	21.14	19.8	PASS

Band40	5MHz	16QAM	38750	12RB#6	21.03	19.69	PASS
Band40	5MHz	16QAM	38750	12RB#13	21.09	19.75	PASS
Band40	5MHz	16QAM	38750	25RB#0	21.35	20.01	PASS
Band40	5MHz	16QAM	38775	1RB#0	20.77	19.43	PASS
Band40	5MHz	16QAM	38775	1RB#12	20.25	18.91	PASS
Band40	5MHz	16QAM	38775	1RB#24	21.79	20.45	PASS
Band40	5MHz	16QAM	38775	12RB#0	20.72	19.38	PASS
Band40	5MHz	16QAM	39150	1RB#0	21.09	19.75	PASS
Band40	5MHz	16QAM	39150	1RB#12	21.12	19.78	PASS
Band40	5MHz	16QAM	39150	1RB#24	21.08	19.74	PASS
Band40	5MHz	16QAM	39150	12RB#0	20.63	19.29	PASS
Band40	5MHz	16QAM	39175	1RB#0	22.19	20.85	PASS
Band40	5MHz	16QAM	39175	1RB#12	21.79	20.45	PASS
Band40	5MHz	16QAM	39175	1RB#24	22.51	21.17	PASS
Band40	5MHz	16QAM	39175	12RB#0	20.64	19.3	PASS
Band40	5MHz	16QAM	39175	12RB#6	20.58	19.24	PASS
Band40	5MHz	16QAM	39175	12RB#13	20.58	19.24	PASS
Band40	5MHz	16QAM	39175	25RB#0	20.68	19.34	PASS
Band40	5MHz	16QAM	39200	1RB#0	20.76	19.42	PASS
Band40	5MHz	16QAM	39200	1RB#12	20.89	19.55	PASS
Band40	5MHz	16QAM	39200	1RB#24	20.56	19.22	PASS
Band40	5MHz	16QAM	39200	12RB#0	20.60	19.26	PASS
Band40	5MHz	16QAM	39200	12RB#6	20.58	19.24	PASS
Band40	5MHz	16QAM	39200	12RB#13	20.51	19.17	PASS
Band40	5MHz	16QAM	39200	25RB#0	20.79	19.45	PASS
Band40	5MHz	16QAM	39225	1RB#0	20.46	19.12	PASS
Band40	5MHz	16QAM	39225	1RB#12	20.99	19.65	PASS
Band40	5MHz	16QAM	39225	1RB#24	20.67	19.33	PASS
Band40	5MHz	16QAM	39225	12RB#0	20.50	19.16	PASS
Band40	5MHz	16QAM	39225	12RB#6	20.51	19.17	PASS
Band40	5MHz	16QAM	39225	12RB#13	20.62	19.28	PASS
Band40	5MHz	16QAM	39225	25RB#0	20.72	19.38	PASS
Band40	10MHz	QPSK	38750	1RB#0	23.55	22.21	PASS
Band40	10MHz	QPSK	38750	1RB#24	23.49	22.15	PASS
Band40	10MHz	QPSK	38750	1RB#49	23.49	22.15	PASS
Band40	10MHz	QPSK	38750	25RB#0	22.35	21.01	PASS
Band40	10MHz	QPSK	38750	25RB#12	22.26	20.92	PASS

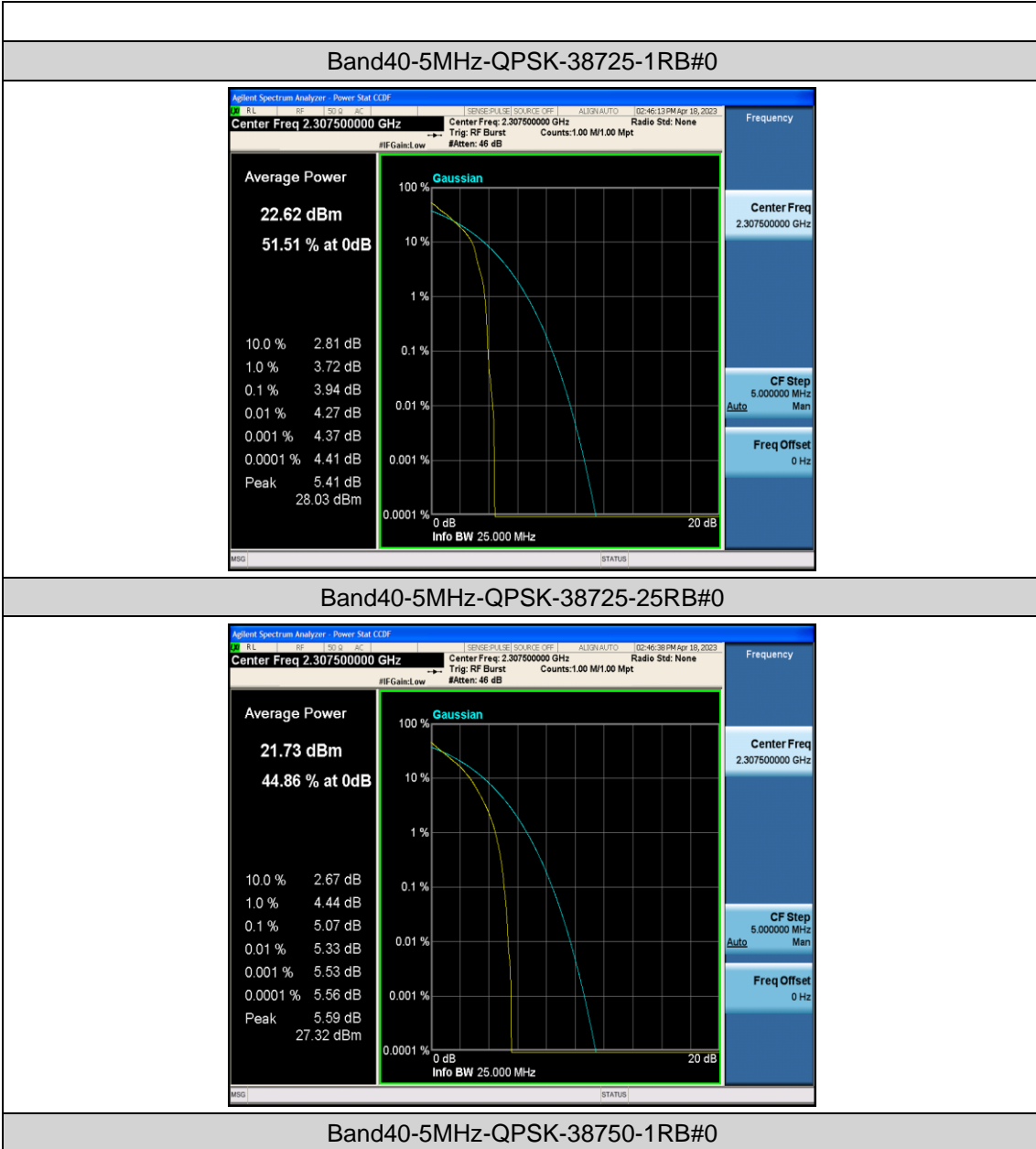
Band40	10MHz	QPSK	38750	25RB#25	22.19	20.85	PASS
Band40	10MHz	QPSK	38750	50RB#0	22.23	20.89	PASS
Band40	10MHz	QPSK	39200	1RB#0	22.84	21.5	PASS
Band40	10MHz	QPSK	39200	1RB#24	22.88	21.54	PASS
Band40	10MHz	QPSK	39200	1RB#49	22.81	21.47	PASS
Band40	10MHz	QPSK	39200	25RB#0	21.56	20.22	PASS
Band40	10MHz	QPSK	39200	25RB#12	21.62	20.28	PASS
Band40	10MHz	QPSK	39200	25RB#25	21.70	20.36	PASS
Band40	10MHz	QPSK	39200	50RB#0	21.67	20.33	PASS
Band40	10MHz	16QAM	38750	1RB#0	21.82	20.48	PASS
Band40	10MHz	16QAM	38750	1RB#24	21.76	20.42	PASS
Band40	10MHz	16QAM	38750	1RB#49	21.74	20.4	PASS
Band40	10MHz	16QAM	38750	25RB#0	21.45	20.11	PASS
Band40	10MHz	16QAM	38750	25RB#12	21.45	20.11	PASS
Band40	10MHz	16QAM	38750	25RB#25	21.35	20.01	PASS
Band40	10MHz	16QAM	38750	50RB#0	21.29	19.95	PASS
Band40	10MHz	16QAM	39200	1RB#0	21.09	19.75	PASS
Band40	10MHz	16QAM	39200	1RB#24	21.17	19.83	PASS
Band40	10MHz	16QAM	39200	1RB#49	21.22	19.88	PASS
Band40	10MHz	16QAM	39200	25RB#0	20.80	19.46	PASS
Band40	10MHz	16QAM	39200	25RB#12	20.89	19.55	PASS
Band40	10MHz	16QAM	39200	25RB#25	20.77	19.43	PASS
Band40	10MHz	16QAM	39200	50RB#0	20.64	19.3	PASS

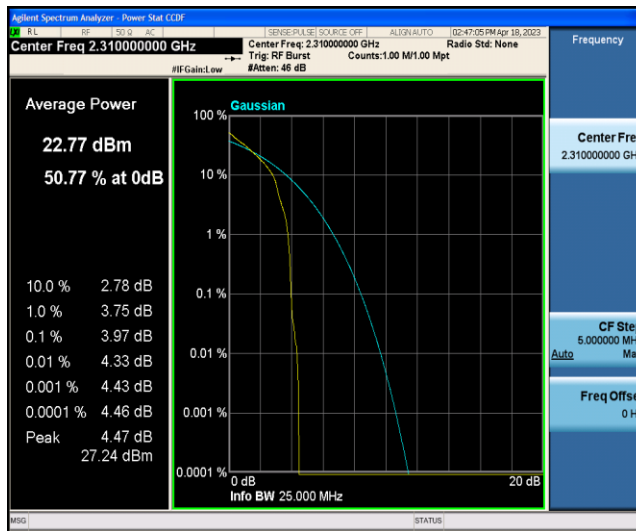
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

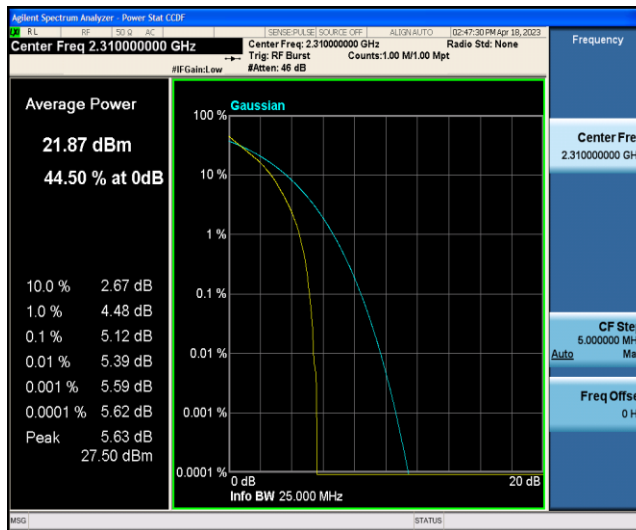
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	3.94	13	PASS
Band40	5MHz	QPSK	38725	25RB#0	5.07	13	PASS
Band40	5MHz	QPSK	38750	1RB#0	3.97	13	PASS
Band40	5MHz	QPSK	38750	25RB#0	5.12	13	PASS
Band40	5MHz	QPSK	38775	1RB#0	4.08	13	PASS
Band40	5MHz	QPSK	38775	25RB#0	5.19	13	PASS
Band40	5MHz	QPSK	39175	1RB#0	5.16	13	PASS
Band40	5MHz	QPSK	39175	25RB#0	5.86	13	PASS
Band40	5MHz	QPSK	39200	1RB#0	5.41	13	PASS
Band40	5MHz	QPSK	39200	25RB#0	5.85	13	PASS
Band40	5MHz	QPSK	39225	1RB#0	5.57	13	PASS
Band40	5MHz	QPSK	39225	25RB#0	5.93	13	PASS
Band40	5MHz	16QAM	38725	1RB#0	5.45	13	PASS
Band40	5MHz	16QAM	38725	25RB#0	5.99	13	PASS
Band40	5MHz	16QAM	38750	1RB#0	5.57	13	PASS
Band40	5MHz	16QAM	38750	25RB#0	5.96	13	PASS
Band40	5MHz	16QAM	38775	1RB#0	5.15	13	PASS
Band40	5MHz	16QAM	38775	25RB#0	6.03	13	PASS
Band40	5MHz	16QAM	39175	1RB#0	6.93	13	PASS
Band40	5MHz	16QAM	39175	25RB#0	6.72	13	PASS
Band40	5MHz	16QAM	39200	1RB#0	6.32	13	PASS
Band40	5MHz	16QAM	39200	25RB#0	6.59	13	PASS
Band40	5MHz	16QAM	39225	1RB#0	6.21	13	PASS
Band40	5MHz	16QAM	39225	25RB#0	6.69	13	PASS
Band40	10MHz	QPSK	38750	1RB#0	3.62	13	PASS
Band40	10MHz	QPSK	38750	50RB#0	5.34	13	PASS
Band40	10MHz	QPSK	39200	1RB#0	5.39	13	PASS
Band40	10MHz	QPSK	39200	50RB#0	6.05	13	PASS
Band40	10MHz	16QAM	38750	1RB#0	5.72	13	PASS
Band40	10MHz	16QAM	38750	50RB#0	6.07	13	PASS
Band40	10MHz	16QAM	39200	1RB#0	6.63	13	PASS
Band40	10MHz	16QAM	39200	50RB#0	6.84	13	PASS

Test Graphs

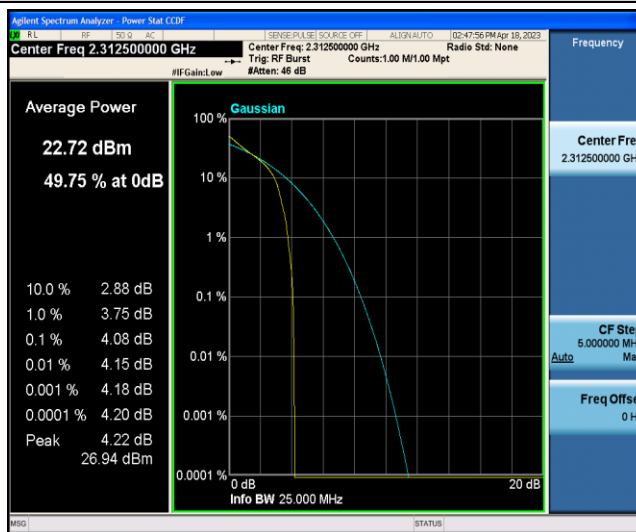




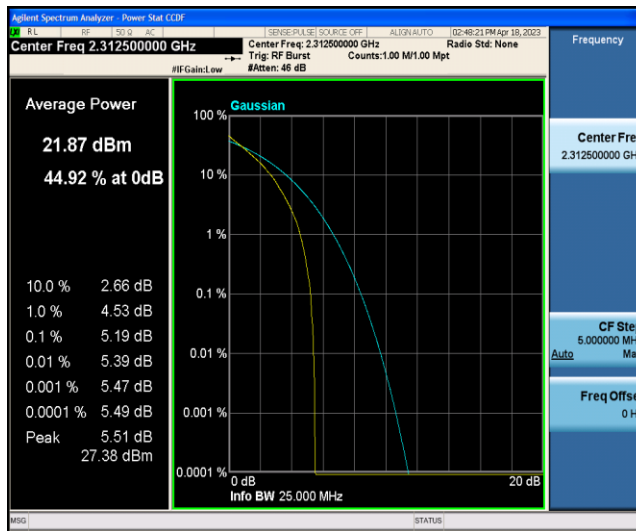
Band40-5MHz-QPSK-38750-25RB#0



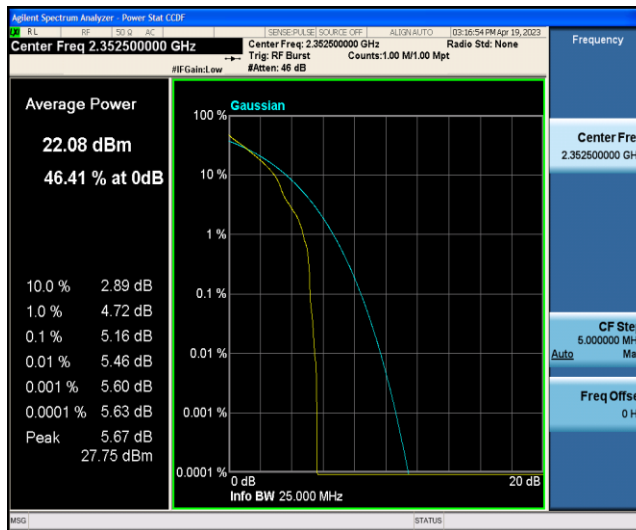
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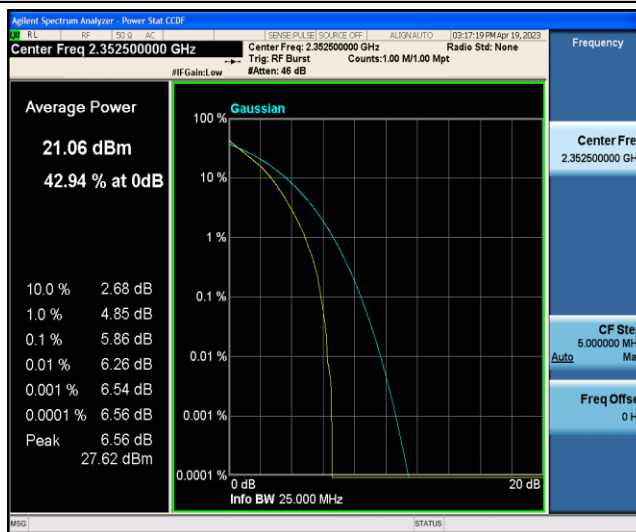
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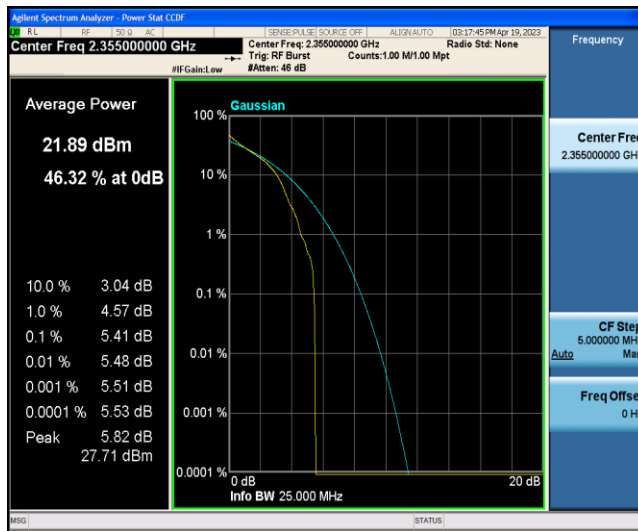
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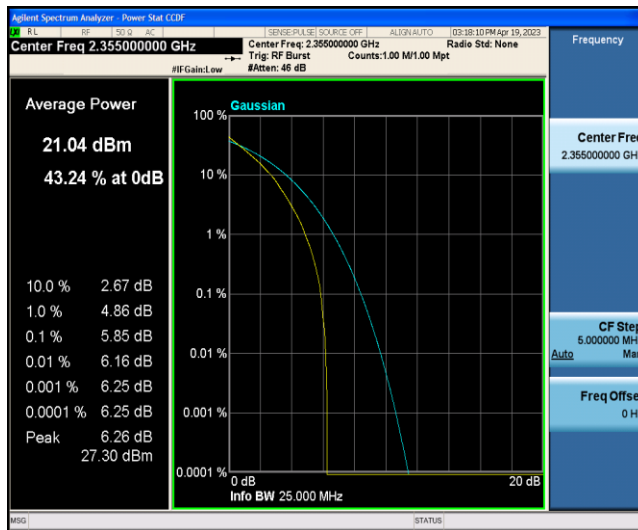
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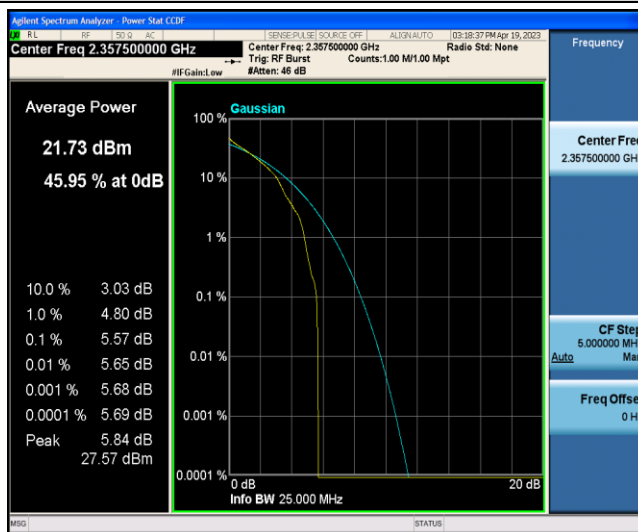
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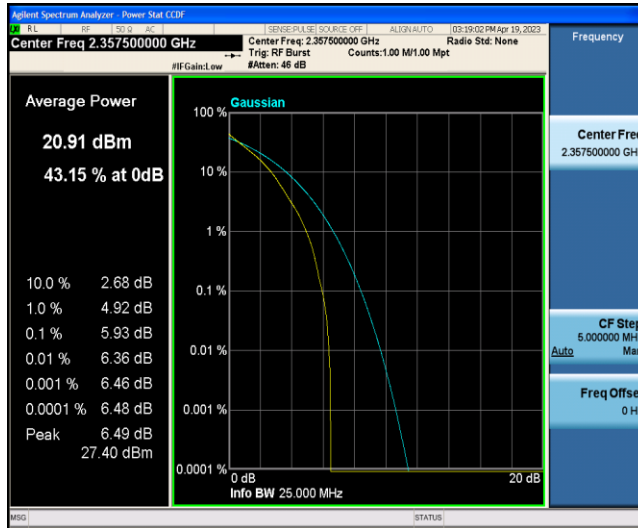
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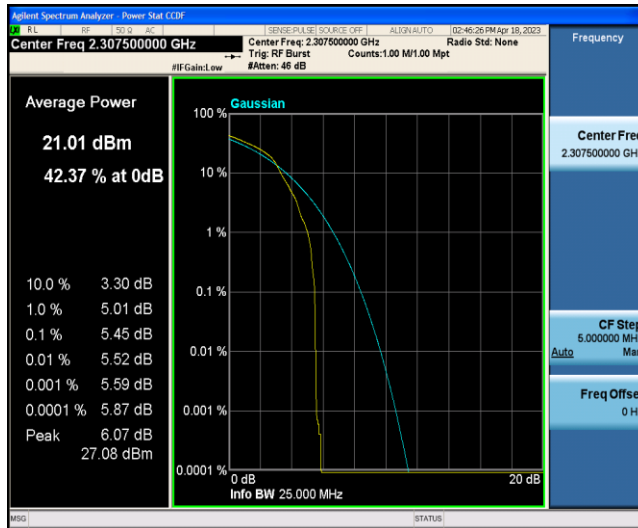
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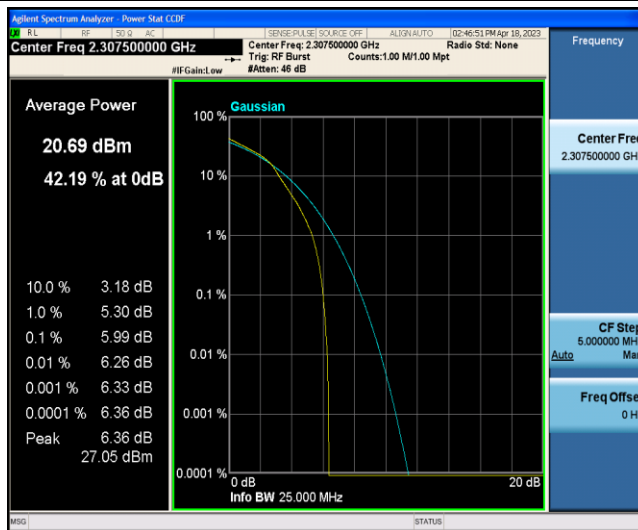
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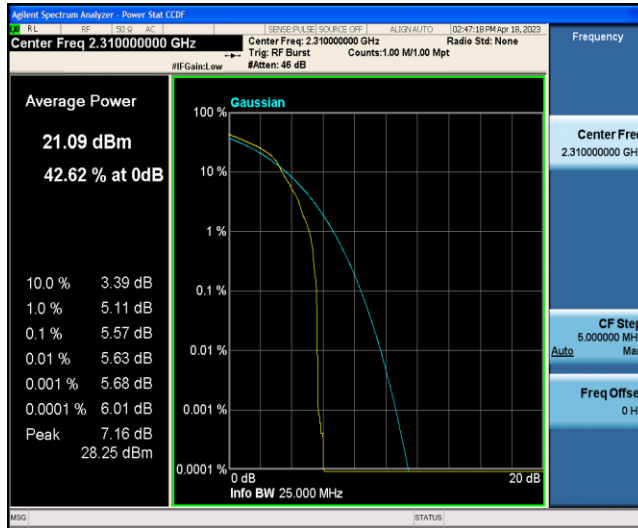
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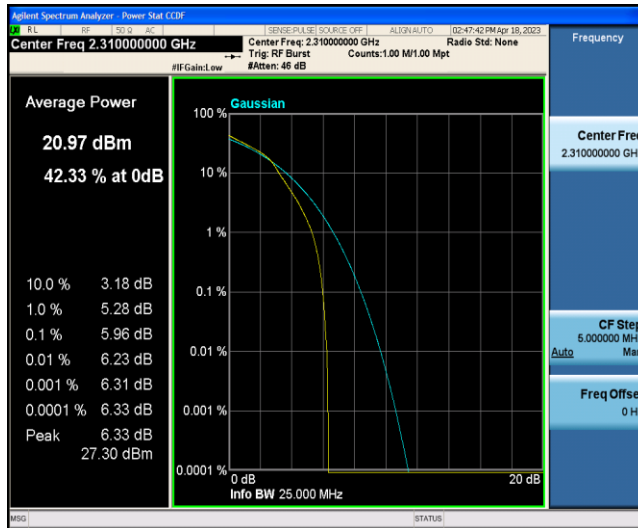
Band40-5MHz-16QAM-38725-25RB#0



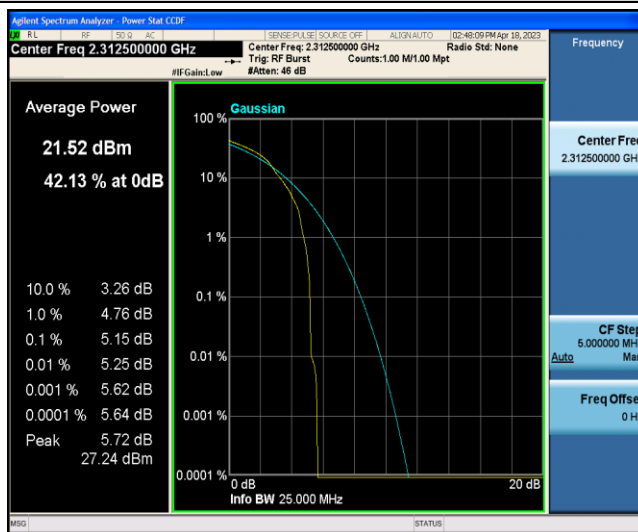
Band40-5MHz-16QAM-38750-1RB#0



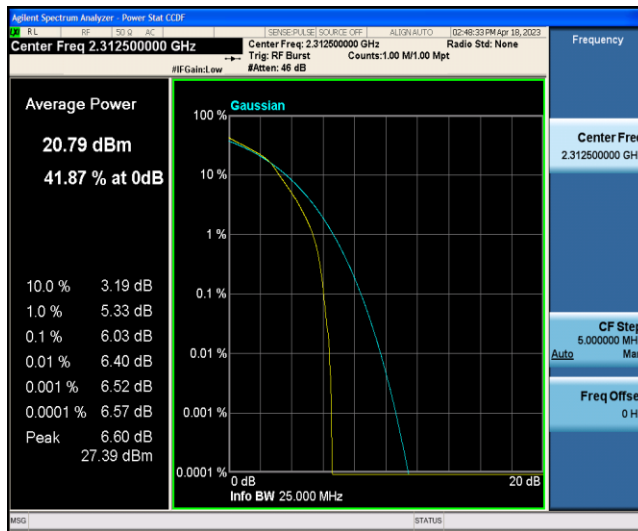
Band40-5MHz-16QAM-38750-25RB#0



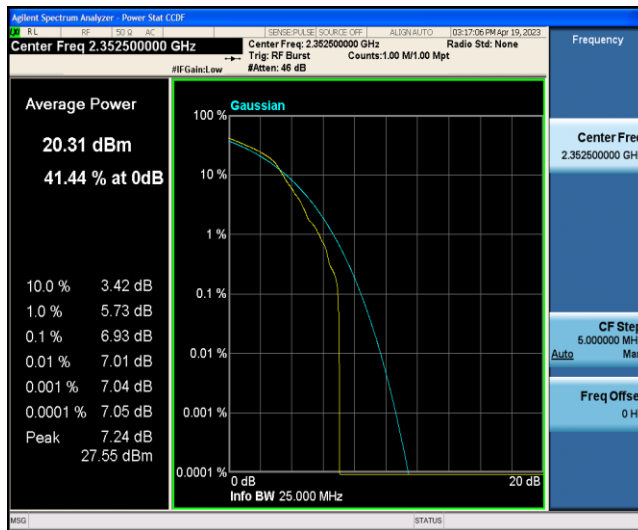
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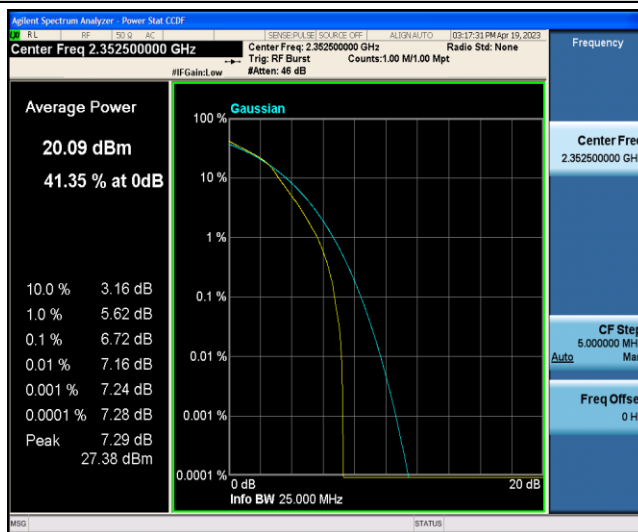
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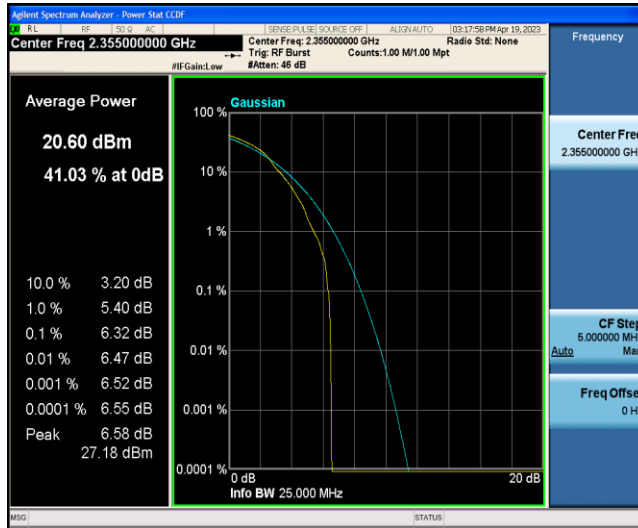
Band40-5MHz-16QAM-39175-1RB#0



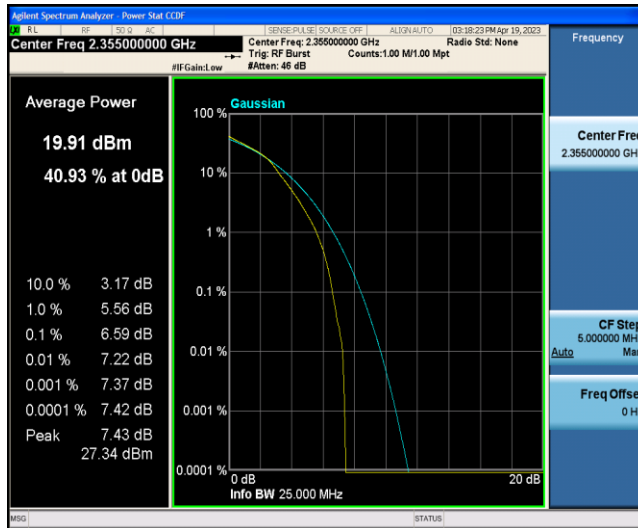
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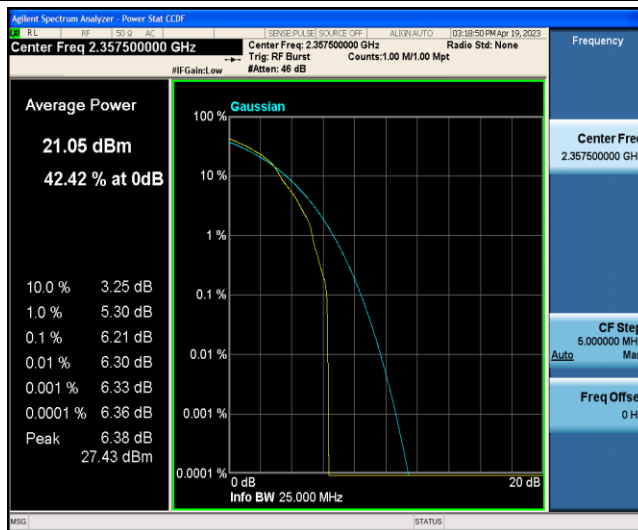
Band40-5MHz-16QAM-39200-1RB#0



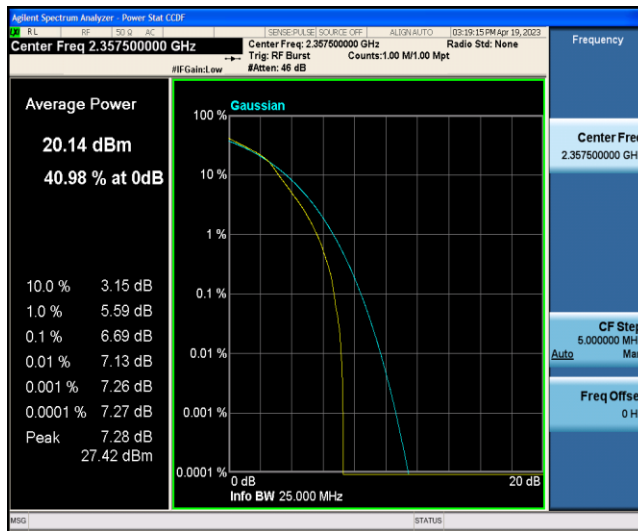
Band40-5MHz-16QAM-39200-25RB#0



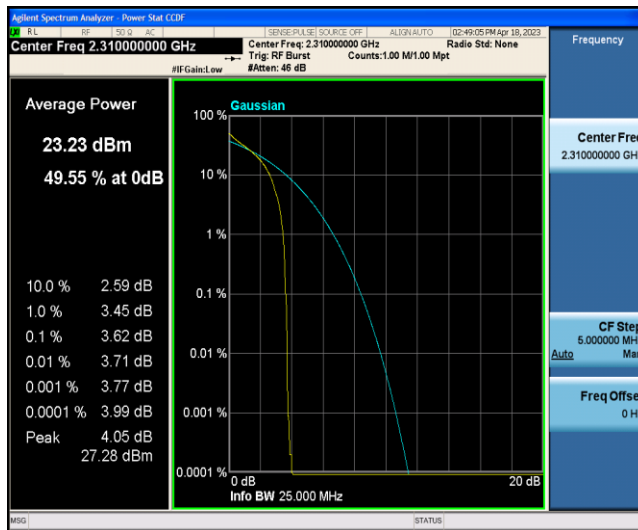
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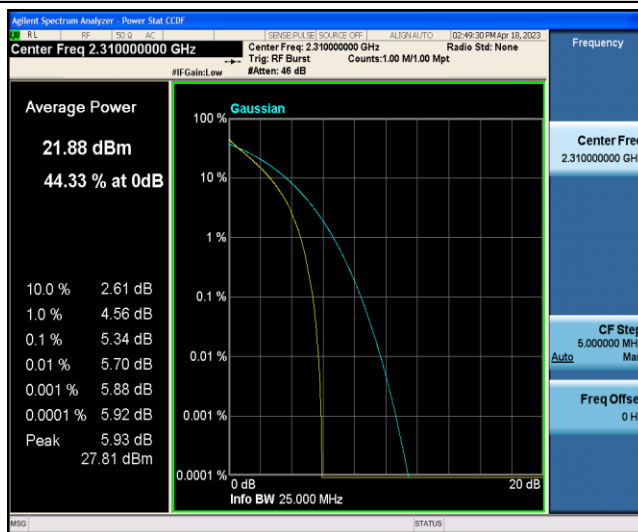
Band40-5MHz-16QAM-39225-25RB#0



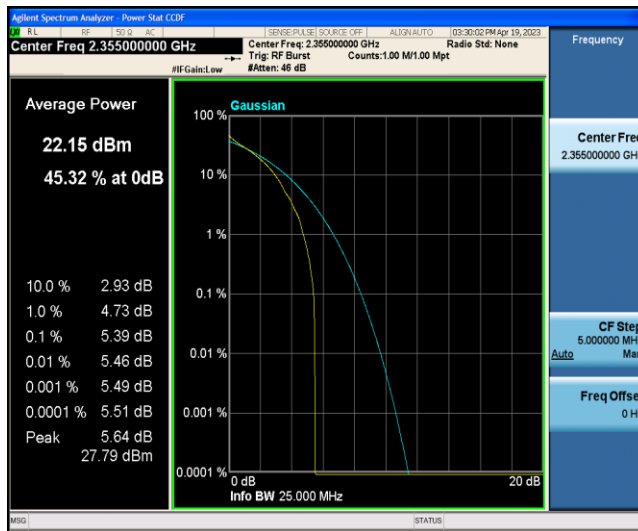
Band40-10MHz-QPSK-38750-1RB#0



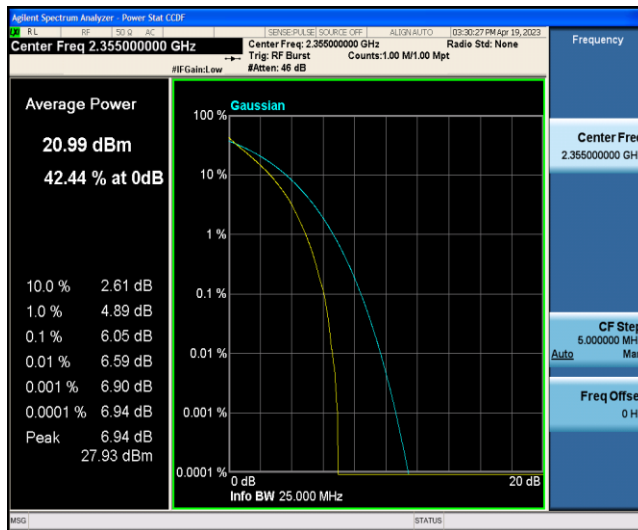
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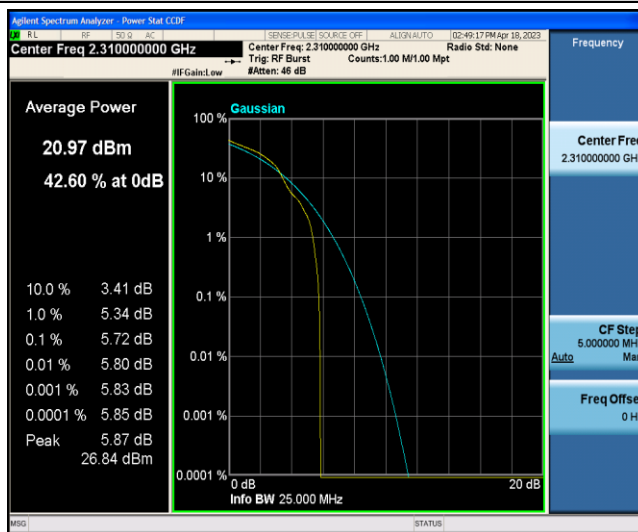
Band40-10MHz-QPSK-39200-1RB#0



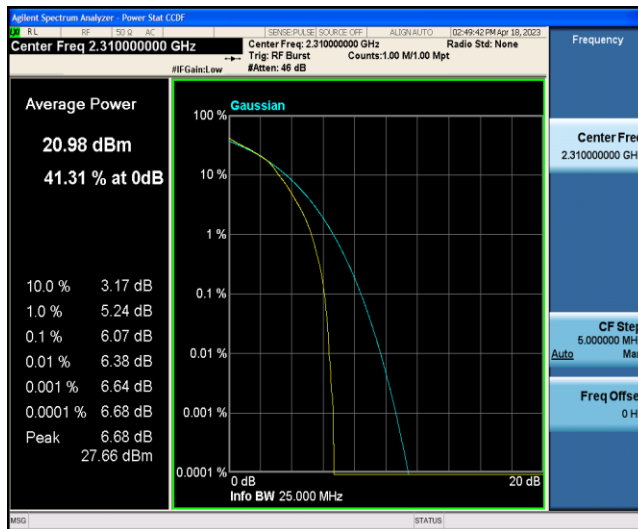
Band40-10MHz-QPSK-39200-50RB#0



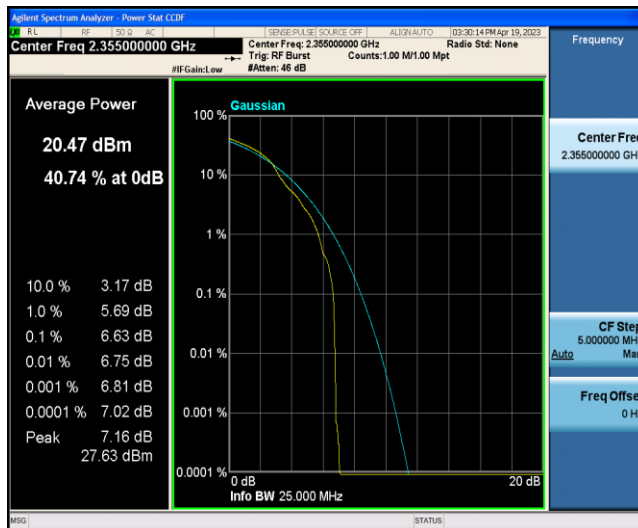
Band40-10MHz-16QAM-38750-1RB#0



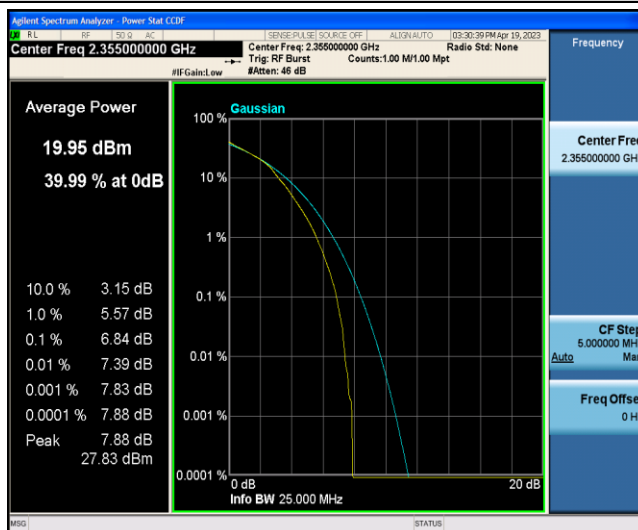
Band40-10MHz-16QAM-38750-50RB#0



Band40-10MHz-16QAM-39200-1RB#0



Band40-10MHz-16QAM-39200-50RB#0

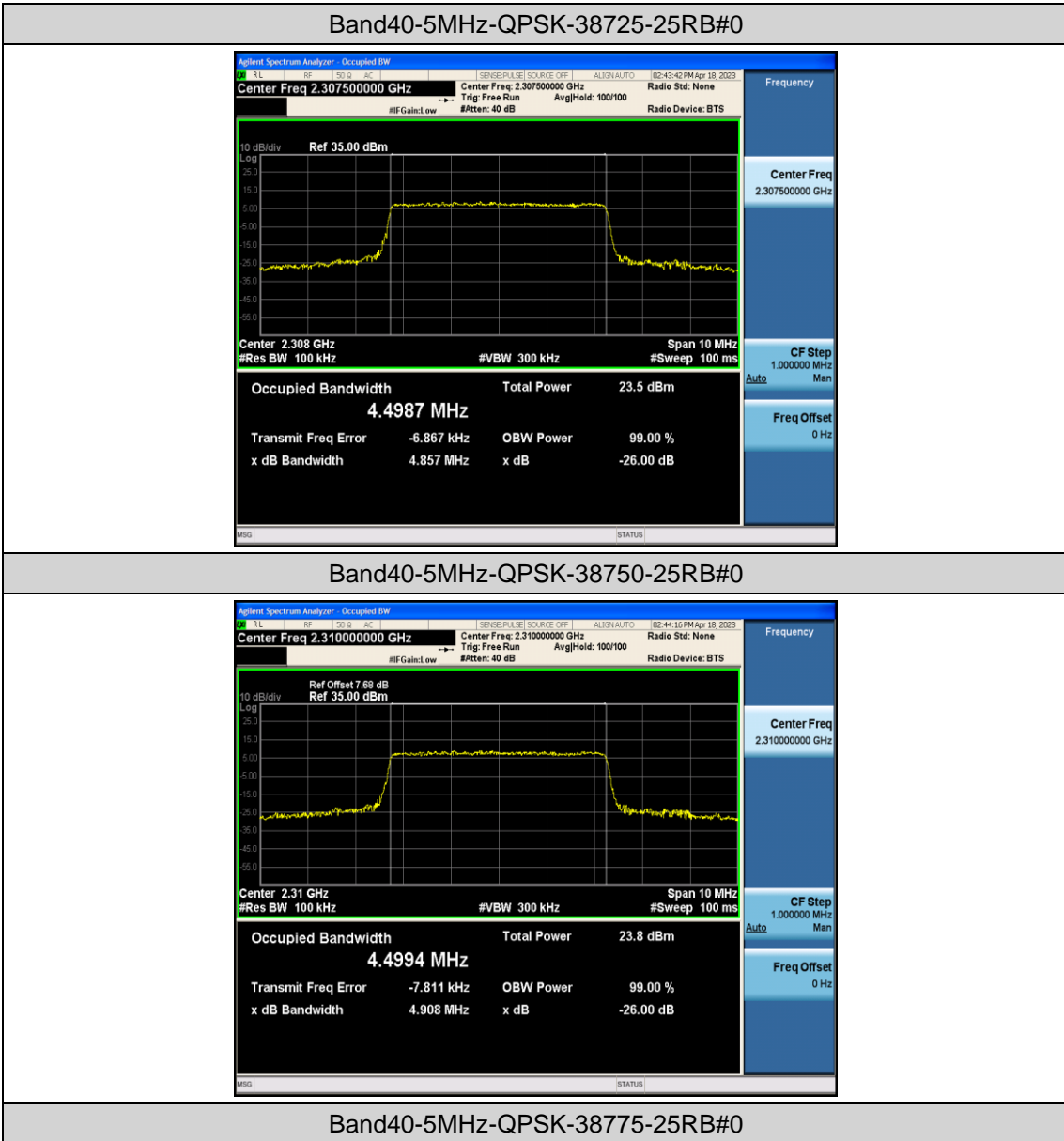


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

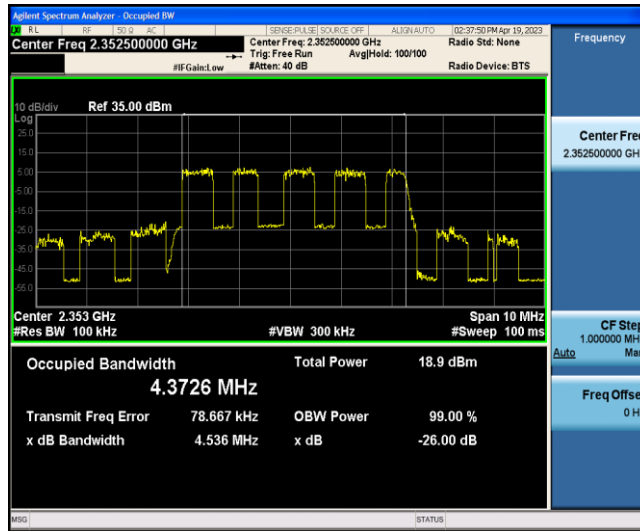
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40	5MHz	QPSK	38725	25RB#0	4.4987	4.857	PASS
Band40	5MHz	QPSK	38750	25RB#0	4.4994	4.908	PASS
Band40	5MHz	QPSK	38775	25RB#0	4.4879	4.916	PASS
Band40	5MHz	QPSK	39175	25RB#0	4.3726	4.536	PASS
Band40	5MHz	QPSK	39200	25RB#0	4.4934	4.899	PASS
Band40	5MHz	QPSK	39225	25RB#0	4.5004	4.875	PASS
Band40	5MHz	16QAM	38725	25RB#0	4.4961	4.859	PASS
Band40	5MHz	16QAM	38750	25RB#0	4.4939	4.863	PASS
Band40	5MHz	16QAM	38775	25RB#0	4.5033	5.026	PASS
Band40	5MHz	16QAM	39175	25RB#0	4.4923	4.856	PASS
Band40	5MHz	16QAM	39200	25RB#0	4.5025	5.042	PASS
Band40	5MHz	16QAM	39225	25RB#0	4.5110	4.915	PASS
Band40	10MHz	QPSK	38750	50RB#0	8.9791	9.603	PASS
Band40	10MHz	QPSK	39200	50RB#0	8.9782	9.605	PASS
Band40	10MHz	16QAM	38750	50RB#0	8.9896	9.575	PASS
Band40	10MHz	16QAM	39200	50RB#0	8.9889	9.572	PASS

Test Graphs





Band40-5MHz-QPSK-39175-25RB#0



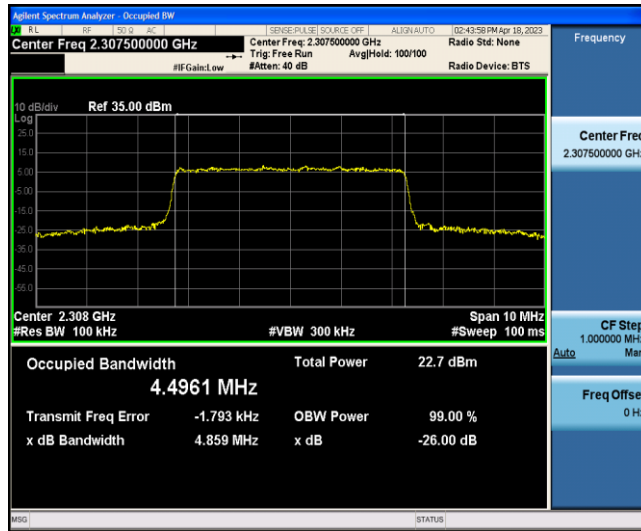
Band40-5MHz-QPSK-39200-25RB#0



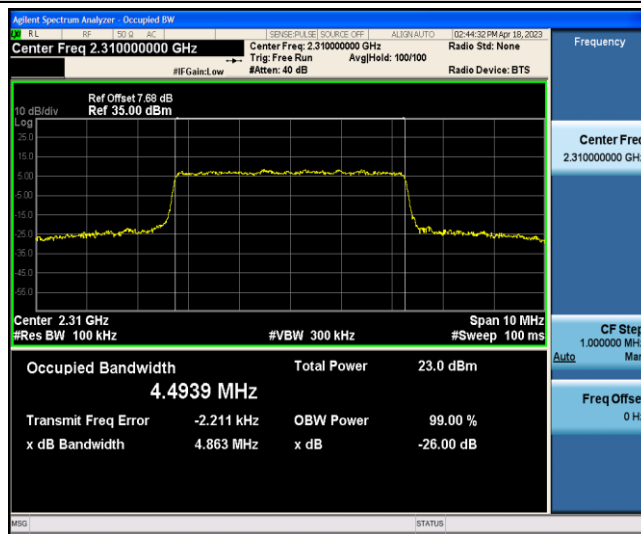
Band40-5MHz-QPSK-39225-25RB#0



Band40-5MHz-16QAM-38725-25RB#0



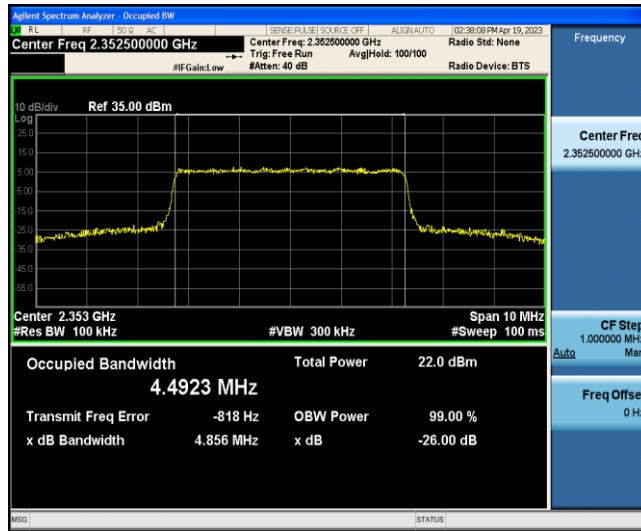
Band40-5MHz-16QAM-38750-25RB#0



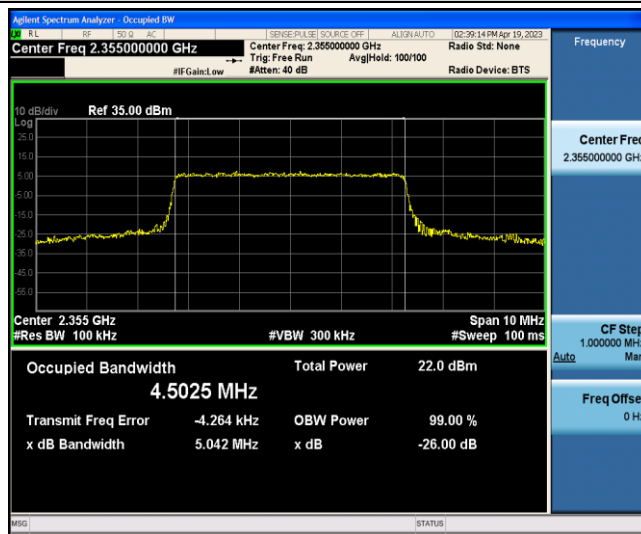
Band40-5MHz-16QAM-38775-25RB#0



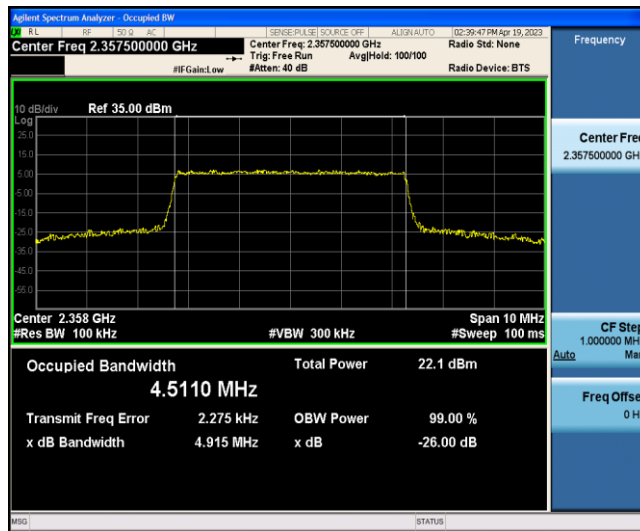
Band40-5MHz-16QAM-39175-25RB#0



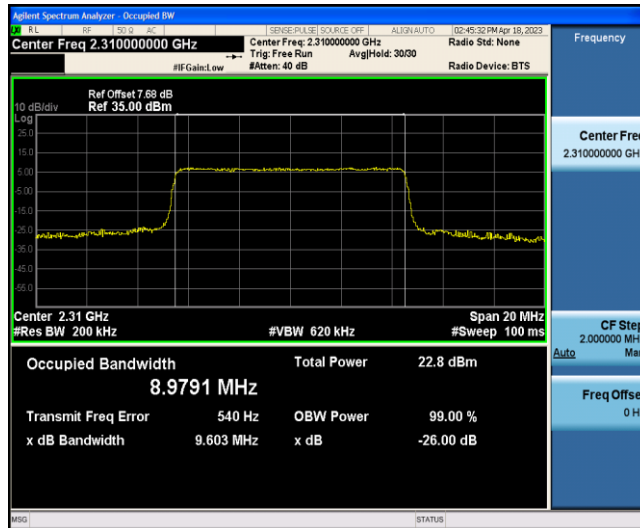
Band40-5MHz-16QAM-39200-25RB#0



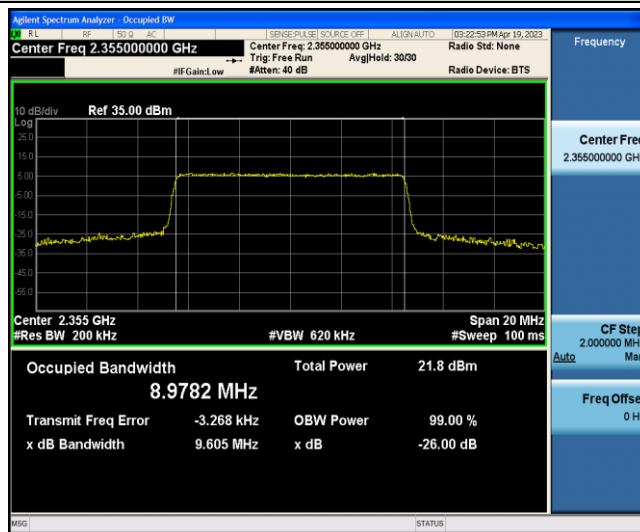
Band40-5MHz-16QAM-39225-25RB#0



Band40-10MHz-QPSK-38750-50RB#0



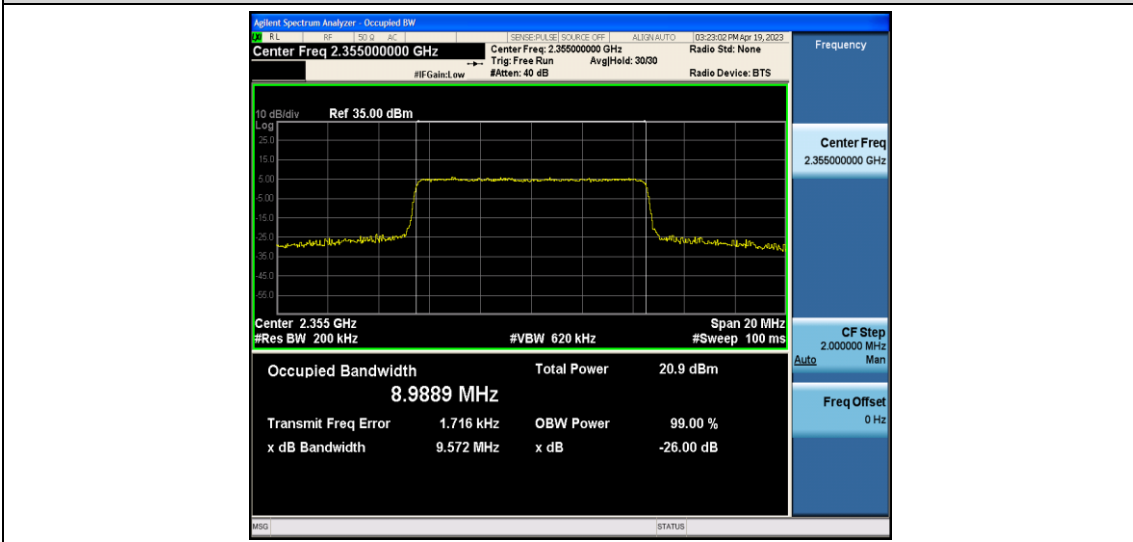
Band40-10MHz-QPSK-39200-50RB#0



Band40-10MHz-16QAM-38750-50RB#0



Band40-10MHz-16QAM-39200-50RB#0

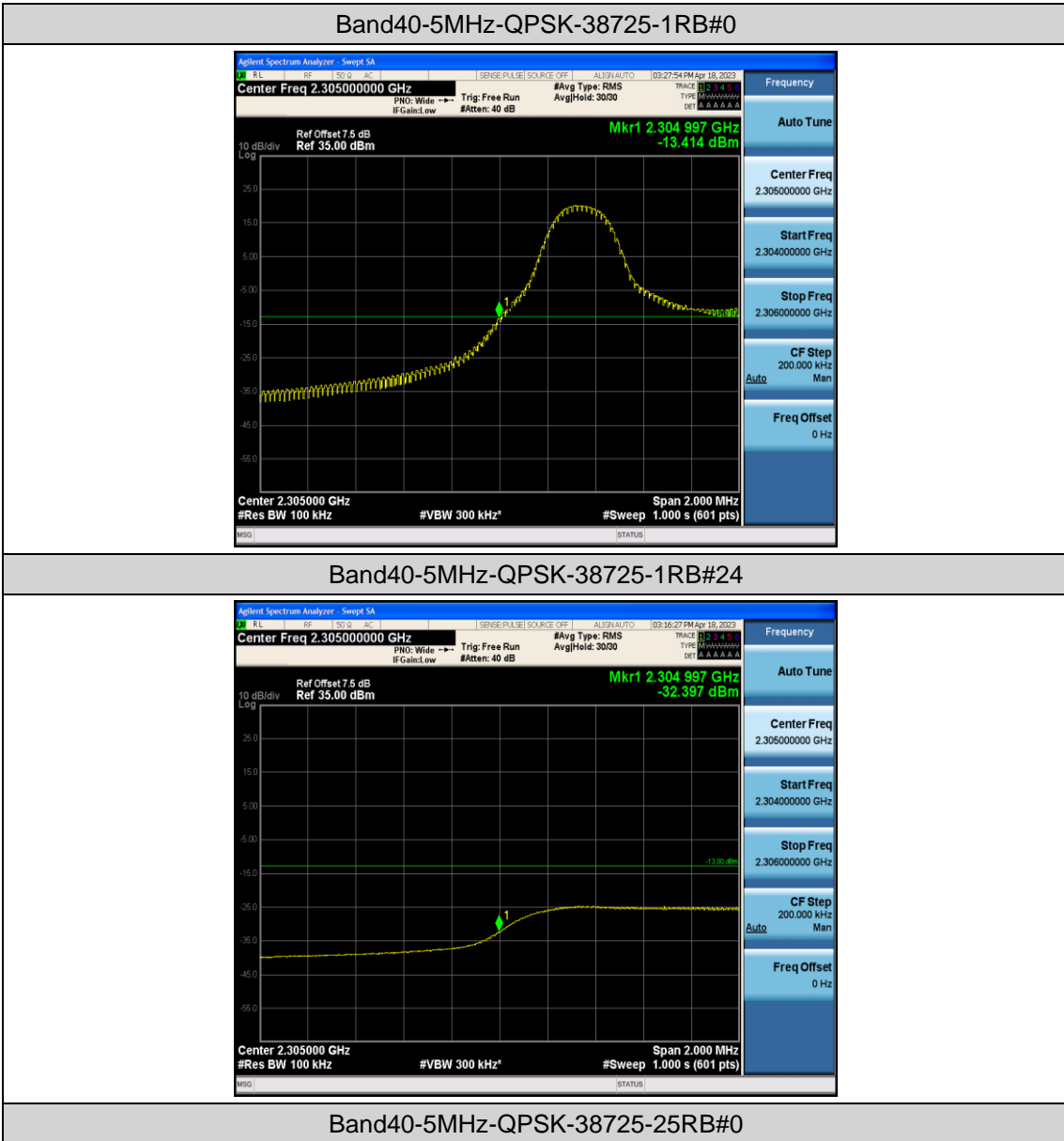


Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	-13.41	PASS
Band40	5MHz	QPSK	38725	1RB#24	-32.40	PASS
Band40	5MHz	QPSK	38725	25RB#0	-24.28	PASS
Band40	5MHz	QPSK	38775	1RB#0	-32.28	PASS
Band40	5MHz	QPSK	38775	1RB#24	-13.71	PASS
Band40	5MHz	QPSK	38775	25RB#0	-24.10	PASS
Band40	5MHz	QPSK	39175	1RB#0	-15.09	PASS
Band40	5MHz	QPSK	39175	1RB#24	-34.62	PASS
Band40	5MHz	QPSK	39175	25RB#0	-23.17	PASS
Band40	5MHz	QPSK	39225	1RB#0	-34.26	PASS
Band40	5MHz	QPSK	39225	1RB#24	-14.88	PASS
Band40	5MHz	QPSK	39225	25RB#0	-24.43	PASS
Band40	5MHz	16QAM	38725	1RB#0	-15.78	PASS
Band40	5MHz	16QAM	38725	1RB#24	-33.62	PASS
Band40	5MHz	16QAM	38725	25RB#0	-23.63	PASS
Band40	5MHz	16QAM	38775	1RB#0	-34.57	PASS
Band40	5MHz	16QAM	38775	1RB#24	-15.10	PASS
Band40	5MHz	16QAM	38775	25RB#0	-23.19	PASS
Band40	5MHz	16QAM	39175	1RB#0	-17.07	PASS
Band40	5MHz	16QAM	39175	1RB#24	-34.44	PASS
Band40	5MHz	16QAM	39175	25RB#0	-23.84	PASS
Band40	5MHz	16QAM	39225	1RB#0	-35.10	PASS
Band40	5MHz	16QAM	39225	1RB#24	-16.41	PASS
Band40	5MHz	16QAM	39225	25RB#0	-23.92	PASS
Band40	10MHz	QPSK	38750	1RB#0	-19.48,-36.39	PASS
Band40	10MHz	QPSK	38750	1RB#49	-34.76,-19.36	PASS
Band40	10MHz	QPSK	38750	50RB#0	-25.15,-22.17	PASS
Band40	10MHz	QPSK	39200	1RB#0	-19.25,-36.80	PASS
Band40	10MHz	QPSK	39200	1RB#49	-35.36,-21.39	PASS
Band40	10MHz	QPSK	39200	50RB#0	-25.33,-25.54	PASS
Band40	10MHz	16QAM	38750	1RB#0	-17.81,-37.55	PASS
Band40	10MHz	16QAM	38750	1RB#49	-36.72,-21.70	PASS
Band40	10MHz	16QAM	38750	50RB#0	-25.76,-25.90	PASS
Band40	10MHz	16QAM	39200	1RB#0	-20.28,-38.15	PASS
Band40	10MHz	16QAM	39200	1RB#49	-36.66,-22.01	PASS
Band40	10MHz	16QAM	39200	50RB#0	-25.59,-26.15	PASS

Test Graphs

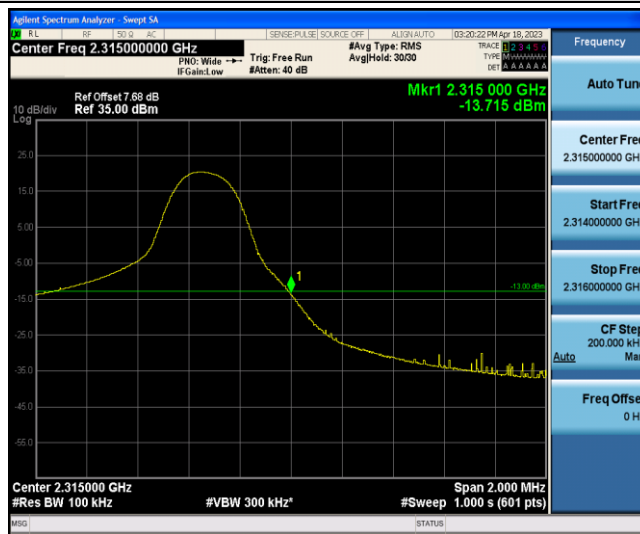




Band40-5MHz-QPSK-38775-1RB#0



Band40-5MHz-QPSK-38775-1RB#24



Band40-5MHz-QPSK-38775-25RB#0