

LTE – Bnad19 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.R.P. (dBm)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	23.10	16.85	PASS
Band19	5MHz	QPSK	24025	1RB#12	23.17	16.92	PASS
Band19	5MHz	QPSK	24025	1RB#24	23.21	16.96	PASS
Band19	5MHz	QPSK	24025	12RB#0	22.19	15.94	PASS
Band19	5MHz	QPSK	24025	12RB#6	22.32	16.07	PASS
Band19	5MHz	QPSK	24025	12RB#13	22.35	16.1	PASS
Band19	5MHz	QPSK	24025	25RB#0	22.21	15.96	PASS
Band19	5MHz	QPSK	24075	1RB#0	23.19	16.94	PASS
Band19	5MHz	QPSK	24075	1RB#12	23.03	16.78	PASS
Band19	5MHz	QPSK	24075	1RB#24	23.10	16.85	PASS
Band19	5MHz	QPSK	24075	12RB#0	22.01	15.76	PASS
Band19	5MHz	QPSK	24075	12RB#6	22.05	15.8	PASS
Band19	5MHz	QPSK	24075	12RB#13	22.17	15.92	PASS
Band19	5MHz	QPSK	24075	25RB#0	22.02	15.77	PASS
Band19	5MHz	QPSK	24125	1RB#0	23.11	16.86	PASS
Band19	5MHz	QPSK	24125	1RB#12	20.88	14.63	PASS
Band19	5MHz	QPSK	24125	1RB#24	20.22	13.97	PASS
Band19	5MHz	QPSK	24125	12RB#0	22.19	15.94	PASS
Band19	5MHz	QPSK	24125	12RB#6	22.08	15.83	PASS
Band19	5MHz	QPSK	24125	12RB#13	22.10	15.85	PASS
Band19	5MHz	QPSK	24125	25RB#0	22.22	15.97	PASS
Band19	5MHz	16QAM	24025	1RB#0	21.76	15.51	PASS
Band19	5MHz	16QAM	24025	1RB#12	20.67	14.42	PASS
Band19	5MHz	16QAM	24025	1RB#24	20.13	13.88	PASS
Band19	5MHz	16QAM	24025	12RB#0	21.27	15.02	PASS
Band19	5MHz	16QAM	24025	12RB#6	21.12	14.87	PASS
Band19	5MHz	16QAM	24025	12RB#13	21.05	14.8	PASS
Band19	5MHz	16QAM	24025	25RB#0	21.12	14.87	PASS
Band19	5MHz	16QAM	24075	1RB#0	21.19	14.94	PASS
Band19	5MHz	16QAM	24075	1RB#12	20.15	13.9	PASS
Band19	5MHz	16QAM	24075	1RB#24	20.09	15.99	PASS

Band19	5MHz	16QAM	24075	12RB#0	21.20	14.95	PASS
Band19	5MHz	16QAM	24075	12RB#6	21.07	14.82	PASS
Band19	5MHz	16QAM	24075	12RB#13	21.23	14.98	PASS
Band19	5MHz	16QAM	24075	25RB#0	21.20	14.95	PASS
Band19	5MHz	16QAM	24125	1RB#0	20.09	13.84	PASS
Band19	5MHz	16QAM	24125	1RB#12	20.96	14.71	PASS
Band19	5MHz	16QAM	24125	1RB#24	21.26	15.01	PASS
Band19	5MHz	16QAM	24125	12RB#0	21.18	14.93	PASS
Band19	5MHz	16QAM	24125	12RB#6	20.55	14.3	PASS
Band19	5MHz	16QAM	24125	12RB#13	20.28	14.03	PASS
Band19	5MHz	16QAM	24125	25RB#0	21.23	14.98	PASS
Band19	10MHz	QPSK	24050	1RB#0	23.01	16.76	PASS
Band19	10MHz	QPSK	24050	1RB#24	23.01	16.76	PASS
Band19	10MHz	QPSK	24050	1RB#49	22.96	16.71	PASS
Band19	10MHz	QPSK	24050	25RB#0	22.28	16.03	PASS
Band19	10MHz	QPSK	24050	25RB#12	22.19	15.94	PASS
Band19	10MHz	QPSK	24050	25RB#25	22.02	15.77	PASS
Band19	10MHz	QPSK	24050	50RB#0	22.15	15.9	PASS
Band19	10MHz	QPSK	24075	1RB#0	23.04	16.79	PASS
Band19	10MHz	QPSK	24075	1RB#24	22.99	16.74	PASS
Band19	10MHz	QPSK	24075	1RB#49	22.94	16.69	PASS
Band19	10MHz	QPSK	24075	25RB#0	22.23	15.98	PASS
Band19	10MHz	QPSK	24075	25RB#12	22.04	15.79	PASS
Band19	10MHz	QPSK	24075	25RB#25	22.14	15.89	PASS
Band19	10MHz	QPSK	24075	50RB#0	21.96	15.71	PASS
Band19	10MHz	QPSK	24100	1RB#0	23.35	17.1	PASS
Band19	10MHz	QPSK	24100	1RB#24	23.13	16.88	PASS
Band19	10MHz	QPSK	24100	1RB#49	23.18	16.93	PASS
Band19	10MHz	QPSK	24100	25RB#0	22.06	15.81	PASS
Band19	10MHz	QPSK	24100	25RB#12	22.07	15.82	PASS
Band19	10MHz	QPSK	24100	25RB#25	22.28	18.18	PASS
Band19	10MHz	QPSK	24100	50RB#0	22.34	18.24	PASS
Band19	10MHz	16QAM	24050	1RB#0	21.95	17.85	PASS
Band19	10MHz	16QAM	24050	1RB#24	21.60	17.5	PASS
Band19	10MHz	16QAM	24050	1RB#49	20.15	16.05	PASS
Band19	10MHz	16QAM	24050	25RB#0	21.04	16.94	PASS
Band19	10MHz	16QAM	24050	25RB#12	20.99	16.89	PASS

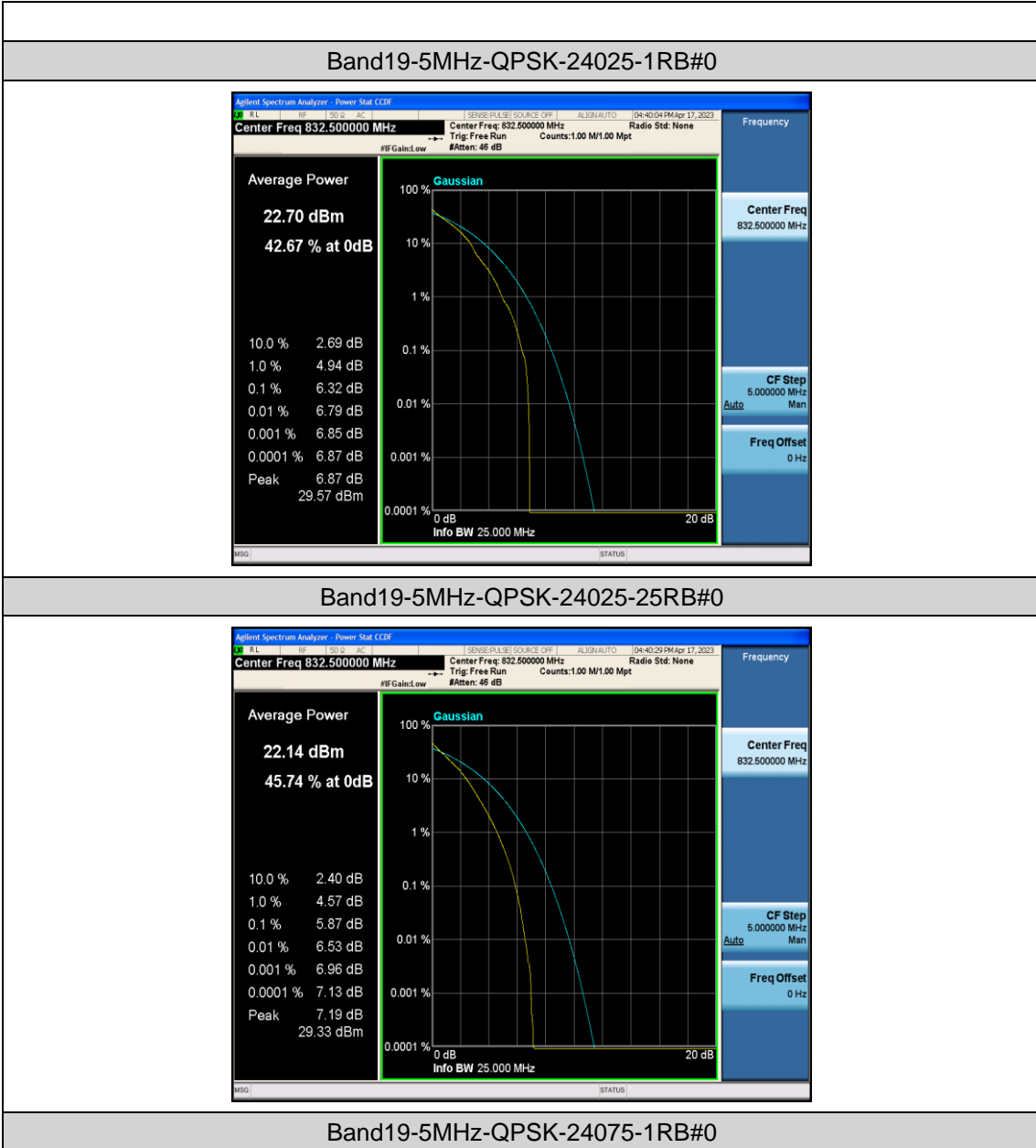
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Band19	10MHz	16QAM	24050	50RB#0	21.30	15.05	PASS
Band19	10MHz	16QAM	24075	1RB#0	21.95	15.7	PASS
Band19	10MHz	16QAM	24075	1RB#24	21.79	15.54	PASS
Band19	10MHz	16QAM	24075	1RB#49	21.75	15.5	PASS
Band19	10MHz	16QAM	24075	25RB#0	21.16	14.91	PASS
Band19	10MHz	16QAM	24075	25RB#12	21.26	15.01	PASS
Band19	10MHz	16QAM	24075	25RB#25	21.24	14.99	PASS
Band19	10MHz	16QAM	24075	50RB#0	21.26	15.01	PASS
Band19	10MHz	16QAM	24100	1RB#0	22.01	15.76	PASS
Band19	10MHz	16QAM	24100	1RB#24	22.06	15.81	PASS
Band19	10MHz	16QAM	24100	1RB#49	21.87	15.62	PASS
Band19	10MHz	16QAM	24100	25RB#0	21.41	15.16	PASS
Band19	10MHz	16QAM	24100	25RB#12	21.40	15.15	PASS
Band19	10MHz	16QAM	24100	25RB#25	21.17	14.92	PASS
Band19	10MHz	16QAM	24100	50RB#0	21.42	15.17	PASS
Band19	15MHz	QPSK	24075	1RB#0	23.01	16.76	PASS
Band19	15MHz	QPSK	24075	1RB#38	22.99	16.74	PASS
Band19	15MHz	QPSK	24075	1RB#74	23.04	16.79	PASS
Band19	15MHz	QPSK	24075	38RB#0	22.04	15.79	PASS
Band19	15MHz	QPSK	24075	38RB#18	22.06	15.81	PASS
Band19	15MHz	QPSK	24075	38RB#37	22.04	15.79	PASS
Band19	15MHz	QPSK	24075	75RB#0	22.02	15.77	PASS
Band19	15MHz	16QAM	24075	1RB#0	20.56	14.31	PASS
Band19	15MHz	16QAM	24075	1RB#38	20.94	14.69	PASS
Band19	15MHz	16QAM	24075	1RB#74	20.51	14.26	PASS
Band19	15MHz	16QAM	24075	38RB#0	22.00	15.75	PASS
Band19	15MHz	16QAM	24075	38RB#18	22.03	15.78	PASS
Band19	15MHz	16QAM	24075	38RB#37	22.01	15.76	PASS
Band19	15MHz	16QAM	24075	75RB#0	21.27	15.02	PASS

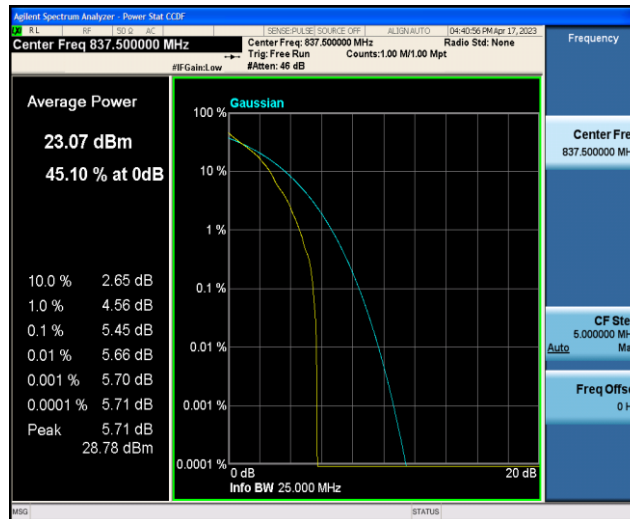
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

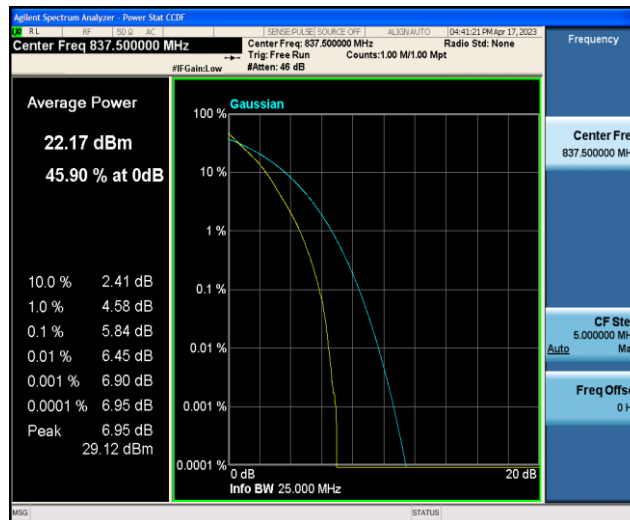
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	6.32	13	PASS
Band19	5MHz	QPSK	24025	25RB#0	5.87	13	PASS
Band19	5MHz	QPSK	24075	1RB#0	5.45	13	PASS
Band19	5MHz	QPSK	24075	25RB#0	5.84	13	PASS
Band19	5MHz	QPSK	24125	1RB#0	5.64	13	PASS
Band19	5MHz	QPSK	24125	25RB#0	5.93	13	PASS
Band19	5MHz	16QAM	24025	1RB#0	6.32	13	PASS
Band19	5MHz	16QAM	24025	25RB#0	6.59	13	PASS
Band19	5MHz	16QAM	24075	1RB#0	6.32	13	PASS
Band19	5MHz	16QAM	24075	25RB#0	6.60	13	PASS
Band19	5MHz	16QAM	24125	1RB#0	6.17	13	PASS
Band19	5MHz	16QAM	24125	25RB#0	6.71	13	PASS
Band19	10MHz	QPSK	24050	1RB#0	6.00	13	PASS
Band19	10MHz	QPSK	24050	50RB#0	5.80	13	PASS
Band19	10MHz	QPSK	24075	1RB#0	5.48	13	PASS
Band19	10MHz	QPSK	24075	50RB#0	5.84	13	PASS
Band19	10MHz	QPSK	24100	1RB#0	5.31	13	PASS
Band19	10MHz	QPSK	24100	50RB#0	5.96	13	PASS
Band19	10MHz	16QAM	24050	1RB#0	6.71	13	PASS
Band19	10MHz	16QAM	24050	50RB#0	6.54	13	PASS
Band19	10MHz	16QAM	24075	1RB#0	6.07	13	PASS
Band19	10MHz	16QAM	24075	50RB#0	6.64	13	PASS
Band19	10MHz	16QAM	24100	1RB#0	6.27	13	PASS
Band19	10MHz	16QAM	24100	50RB#0	6.69	13	PASS
Band19	15MHz	QPSK	24075	1RB#0	5.87	13	PASS
Band19	15MHz	QPSK	24075	75RB#0	6.20	13	PASS
Band19	15MHz	16QAM	24075	1RB#0	6.91	13	PASS
Band19	15MHz	16QAM	24075	75RB#0	6.62	13	PASS

Test Graphs

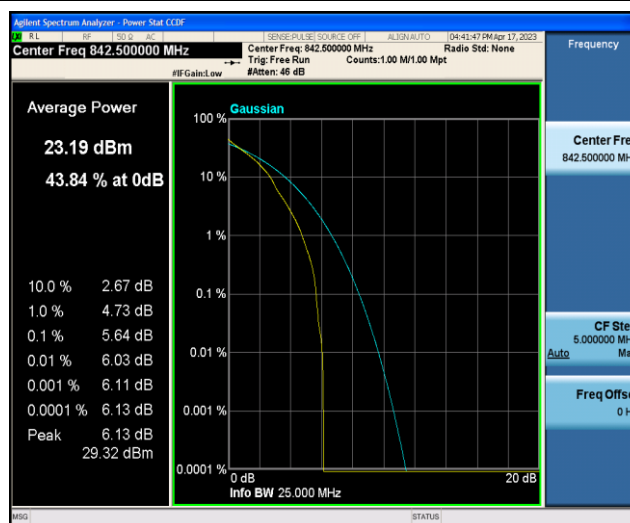




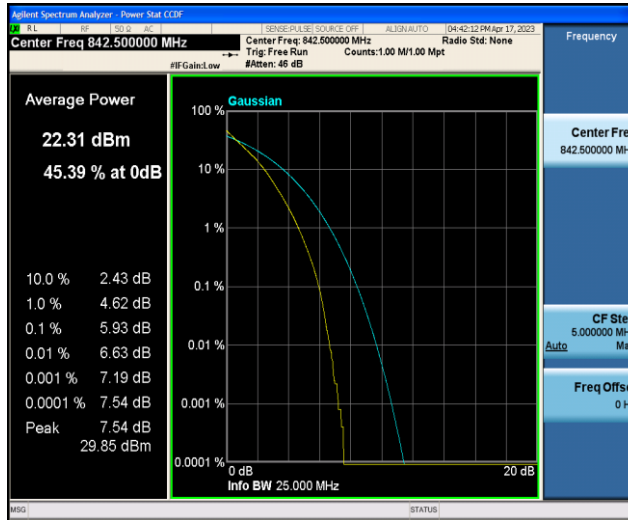
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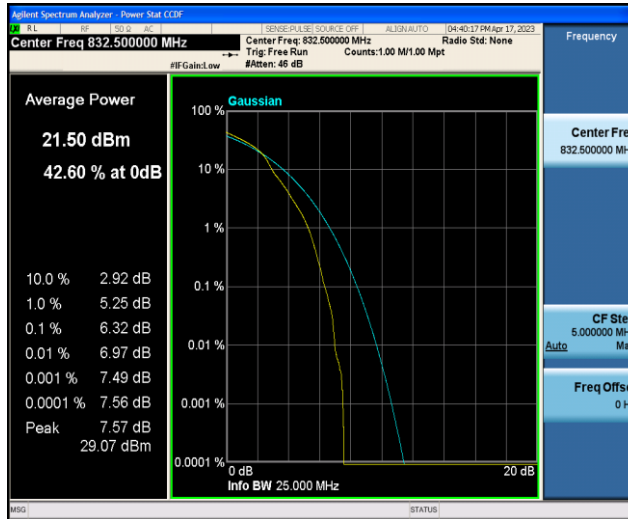
Band19-5MHz-QPSK-24125-1RB#0



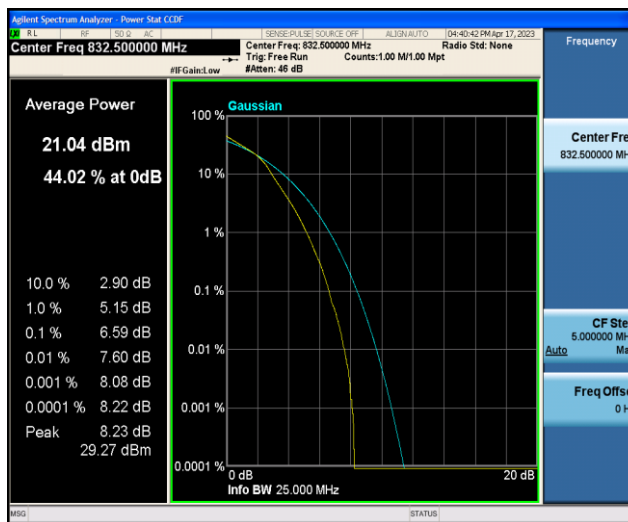
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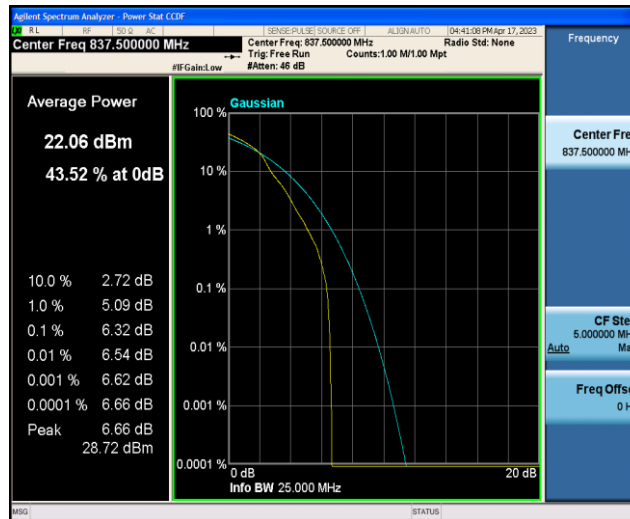
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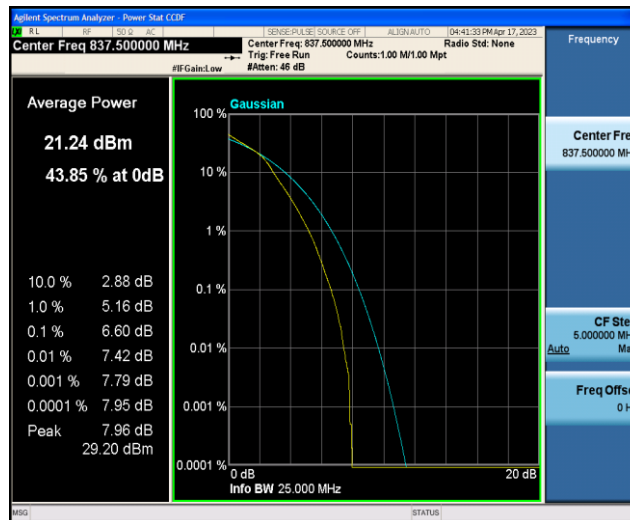
Band19-5MHz-16QAM-24025-25RB#0



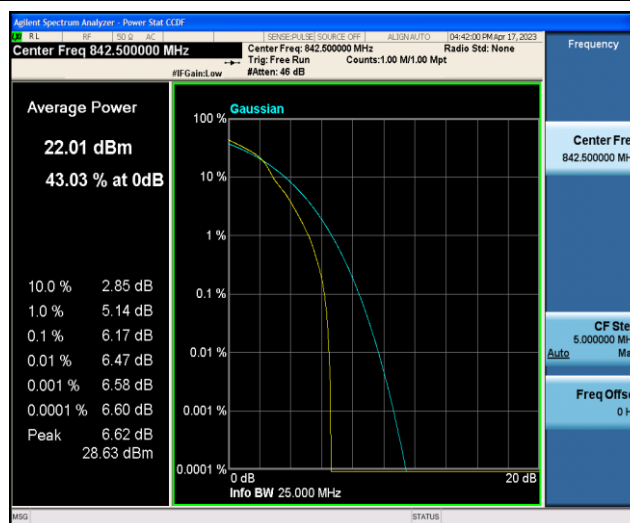
Band19-5MHz-16QAM-24075-1RB#0



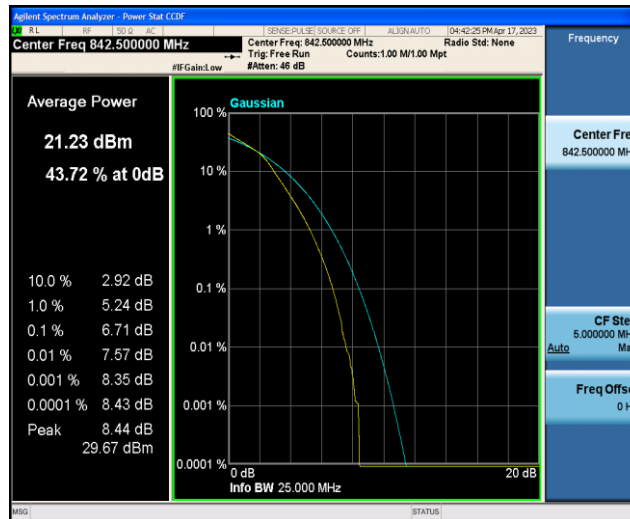
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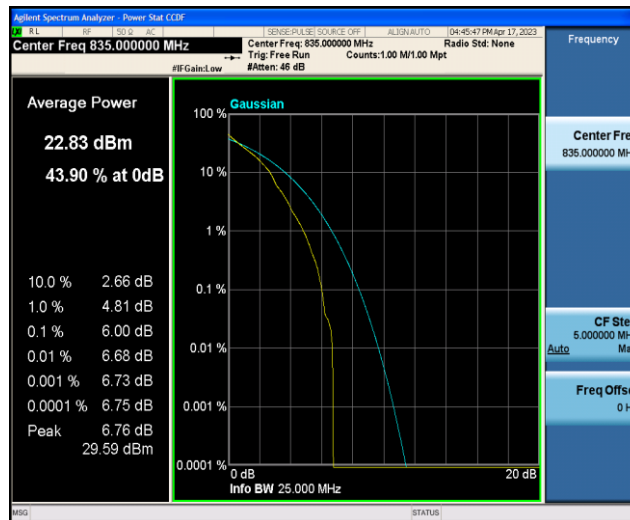
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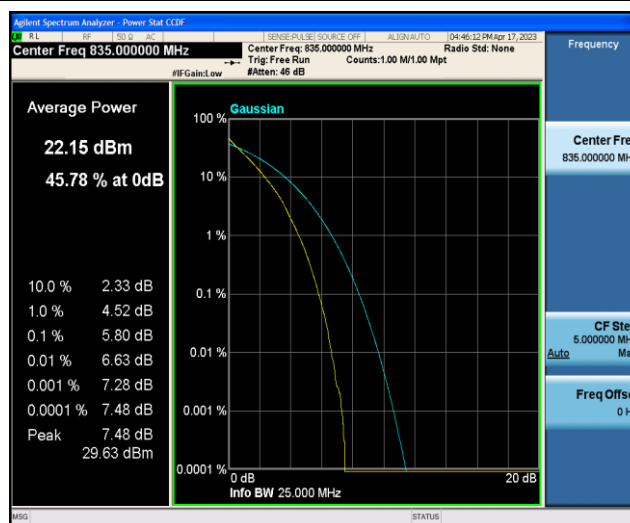
Band19-5MHz-16QAM-24125-25RB#0



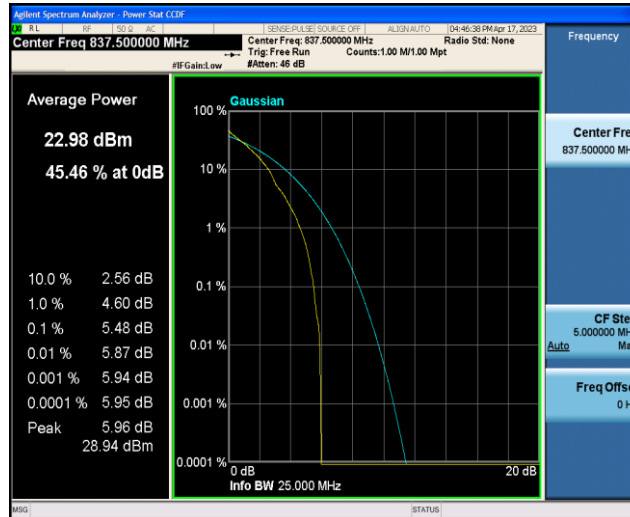
Band19-10MHz-QPSK-24050-1RB#0



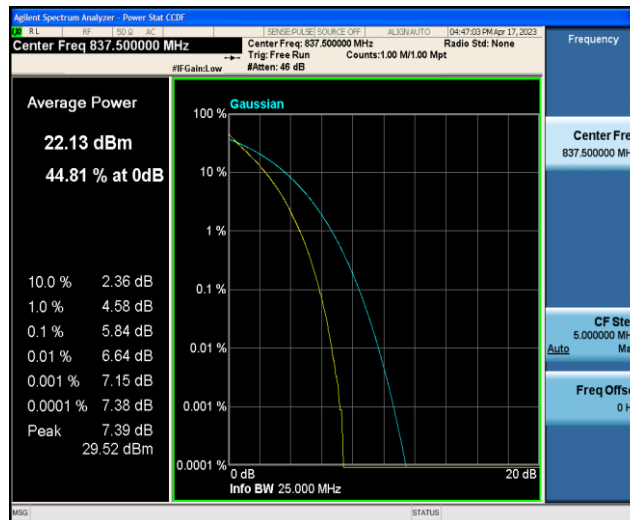
Band19-10MHz-QPSK-24050-50RB#0



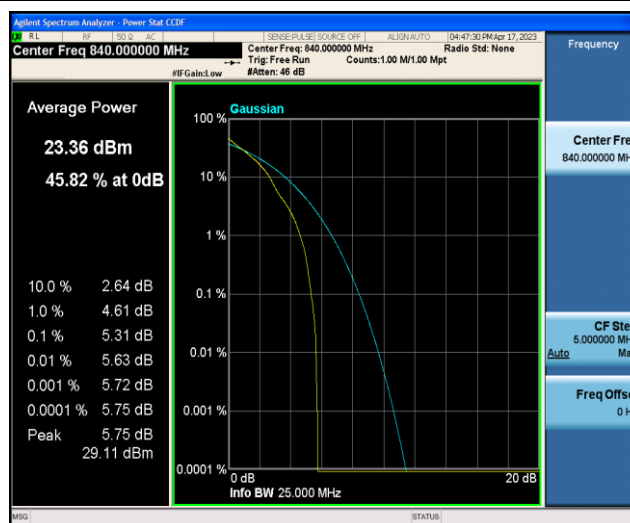
Band19-10MHz-QPSK-24075-1RB#0



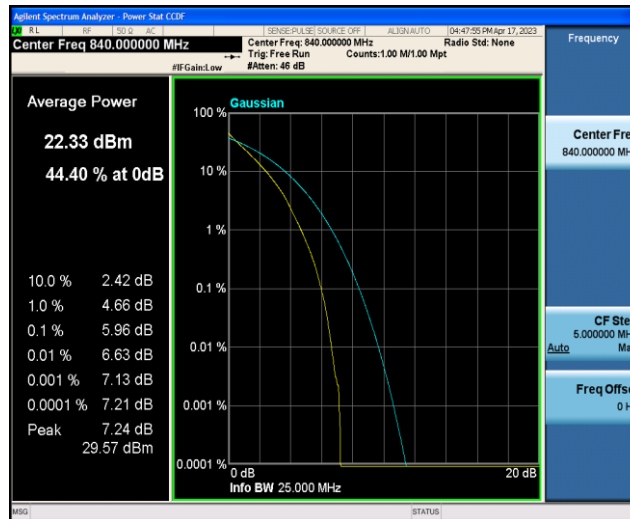
Band19-10MHz-QPSK-24075-50RB#0



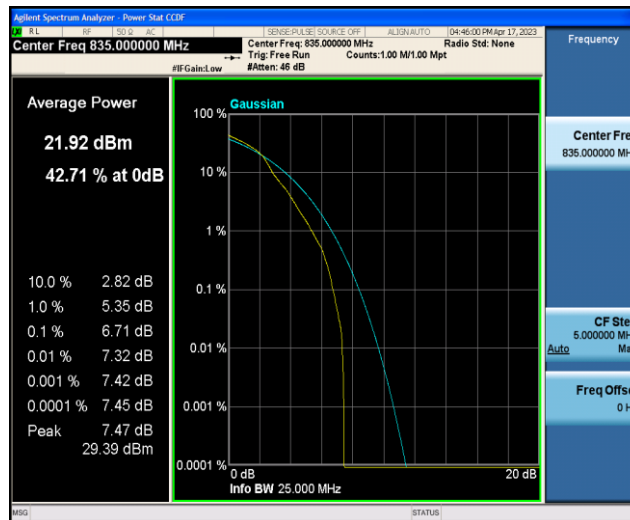
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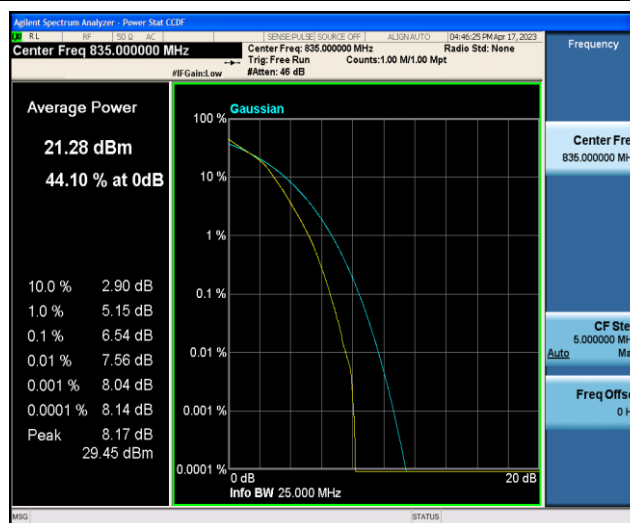
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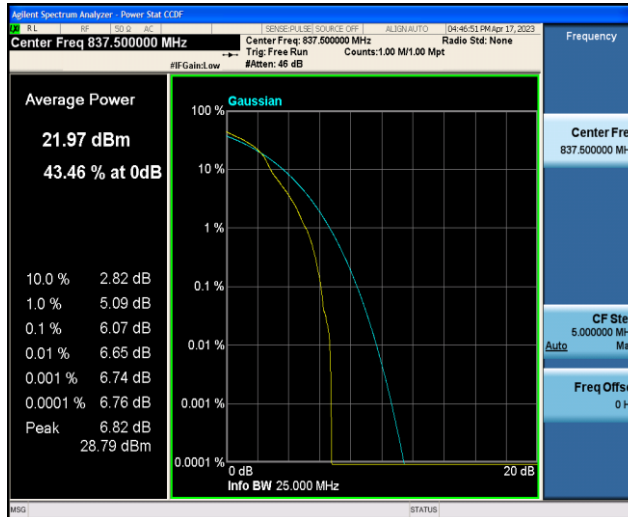
Band19-10MHz-16QAM-24050-1RB#0



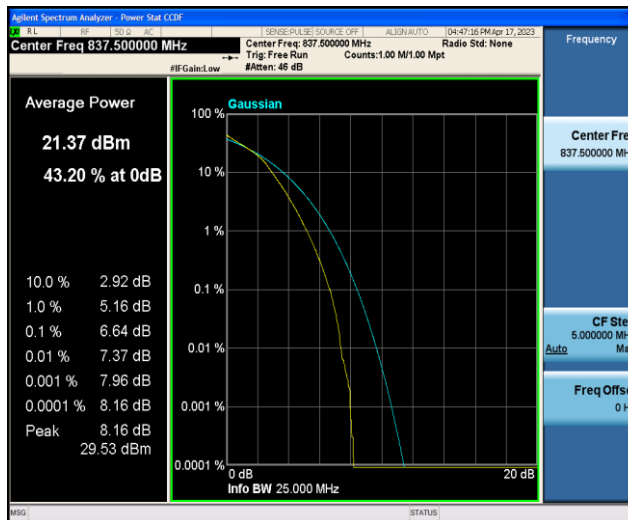
Band19-10MHz-16QAM-24050-50RB#0



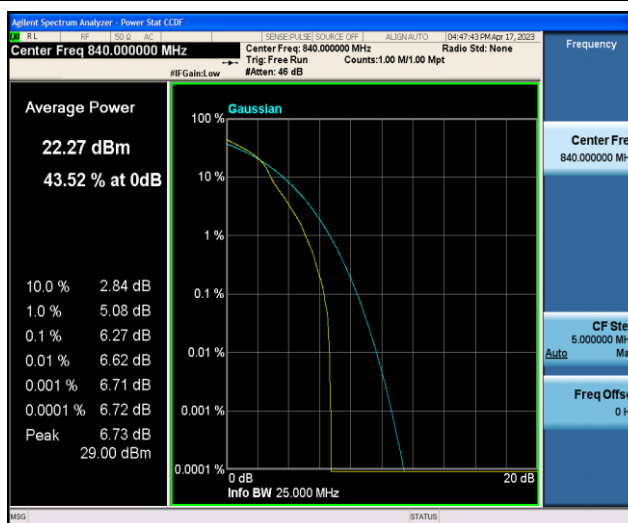
Band19-10MHz-16QAM-24075-1RB#0



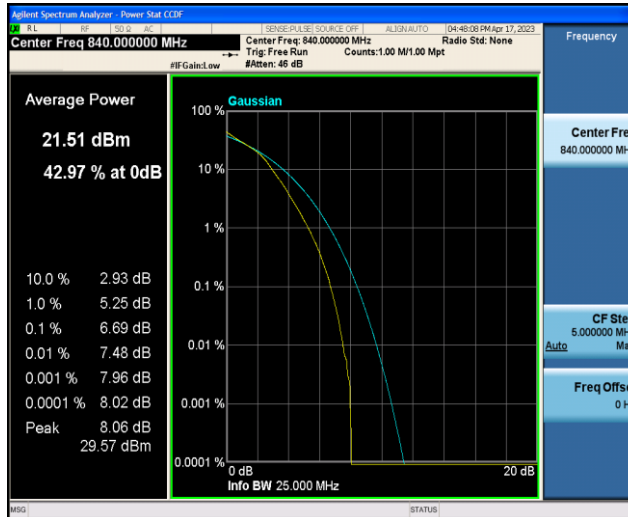
Band19-10MHz-16QAM-24075-50RB#0



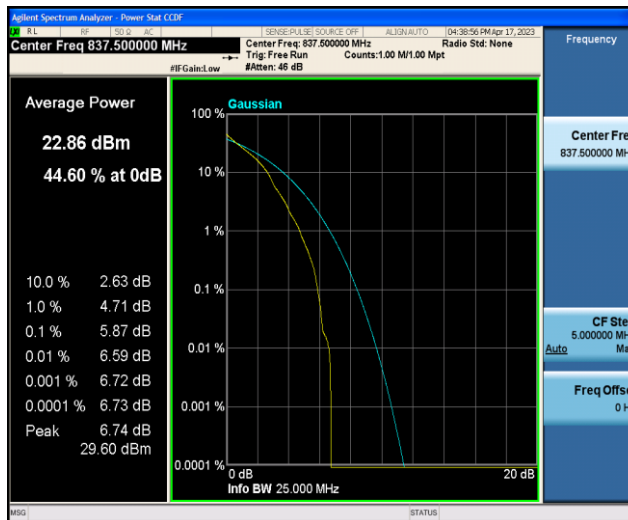
Band19-10MHz-16QAM-24100-1RB#0



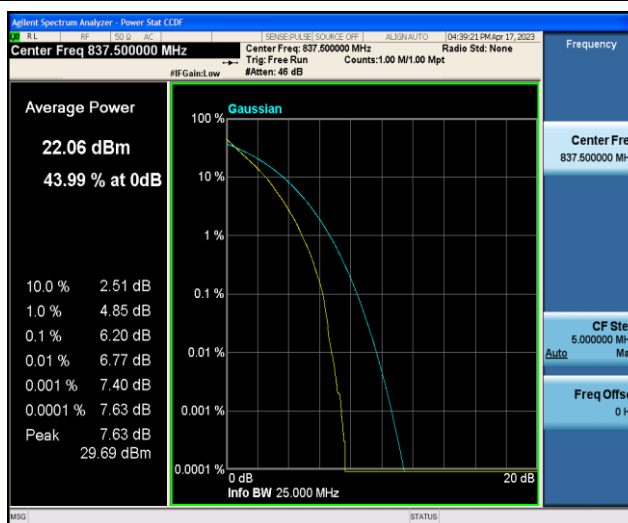
Band19-10MHz-16QAM-24100-50RB#0



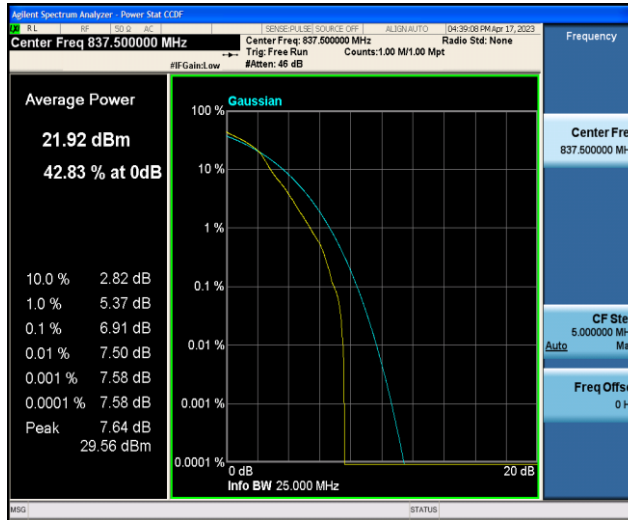
Band19-15MHz-QPSK-24075-1RB#0



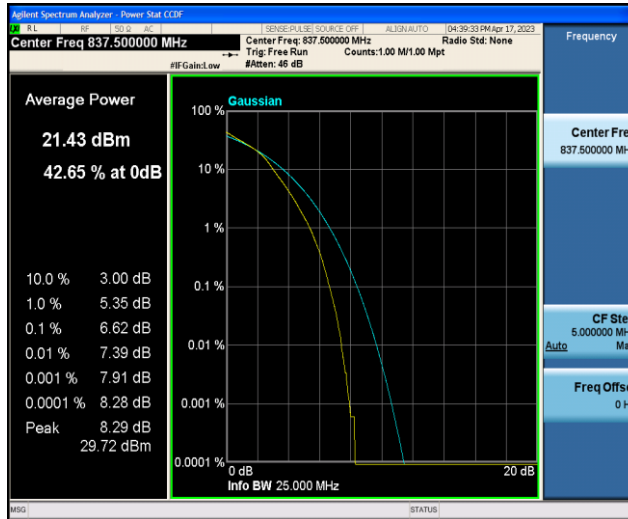
Band19-15MHz-QPSK-24075-75RB#0



Band19-15MHz-16QAM-24075-1RB#0



Band19-15MHz-16QAM-24075-75RB#0



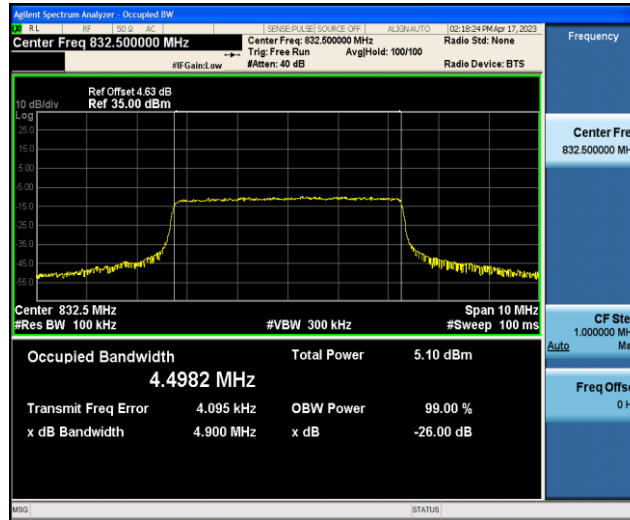
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

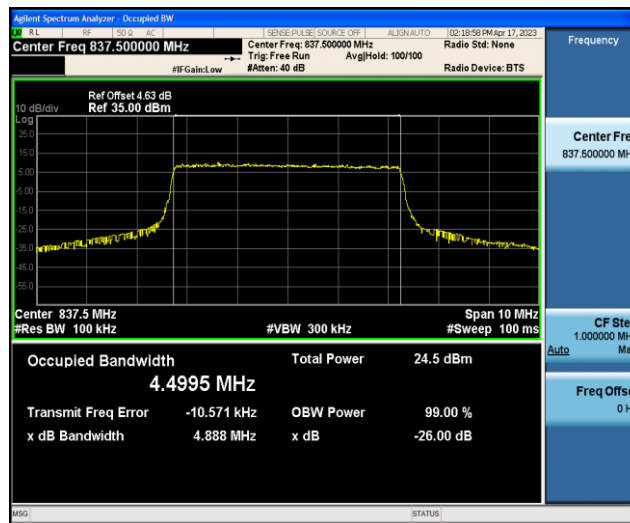
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band19	5MHz	QPSK	24025	25RB#0	4.4982	4.900	PASS
Band19	5MHz	QPSK	24075	25RB#0	4.4995	4.888	PASS
Band19	5MHz	QPSK	24125	25RB#0	4.5124	4.935	PASS
Band19	5MHz	16QAM	24025	25RB#0	4.4819	4.924	PASS
Band19	5MHz	16QAM	24075	25RB#0	4.5035	4.874	PASS
Band19	5MHz	16QAM	24125	25RB#0	4.4967	4.976	PASS
Band19	10MHz	QPSK	24050	50RB#0	8.9662	9.551	PASS
Band19	10MHz	QPSK	24075	50RB#0	8.9818	9.541	PASS
Band19	10MHz	QPSK	24100	50RB#0	8.9980	9.603	PASS
Band19	10MHz	16QAM	24050	50RB#0	8.9624	9.645	PASS
Band19	10MHz	16QAM	24075	50RB#0	8.9821	9.597	PASS
Band19	10MHz	16QAM	24100	50RB#0	8.9883	9.603	PASS
Band19	15MHz	QPSK	24075	75RB#0	13.447	14.35	PASS
Band19	15MHz	16QAM	24075	75RB#0	13.441	14.31	PASS

Test Graphs

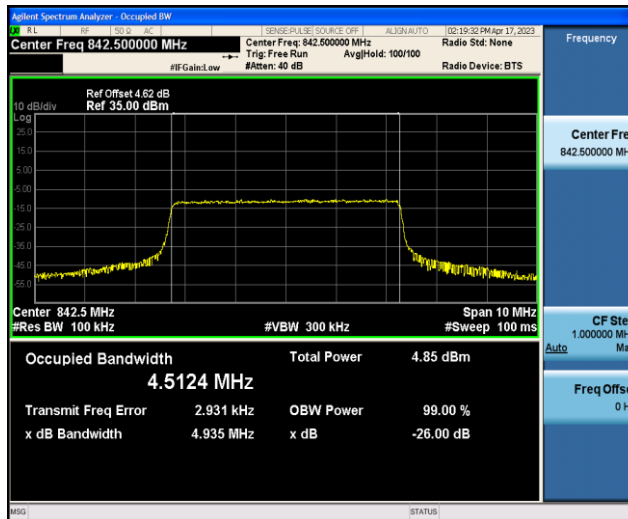
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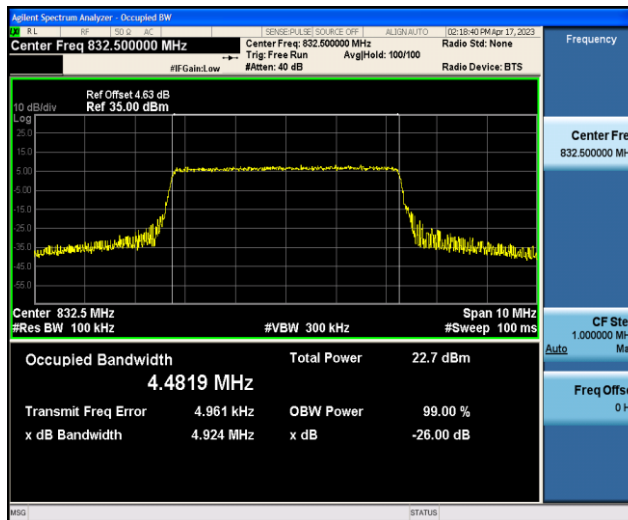
Band19-5MHz-QPSK-24075-25RB#0



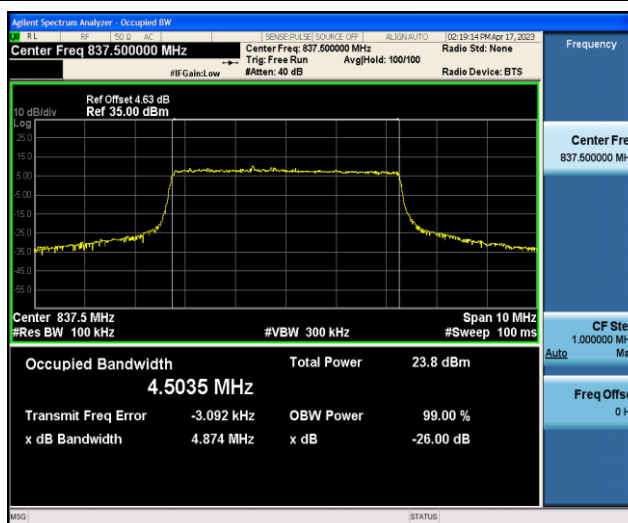
Band19-5MHz-QPSK-24125-25RB#0



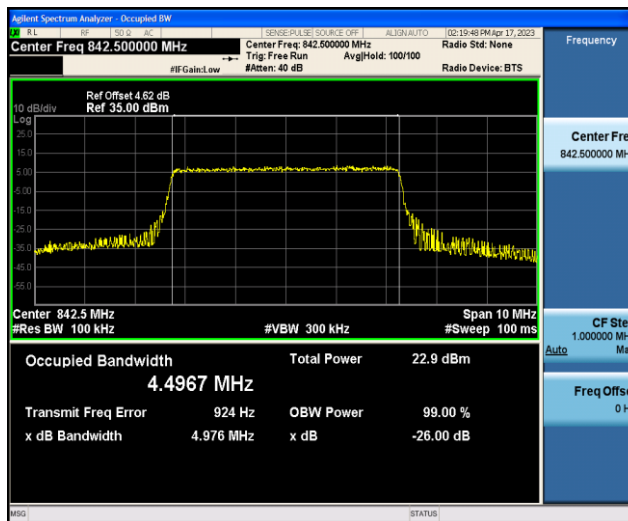
Band19-5MHz-16QAM-24025-25RB#0



Band19-5MHz-16QAM-24075-25RB#0



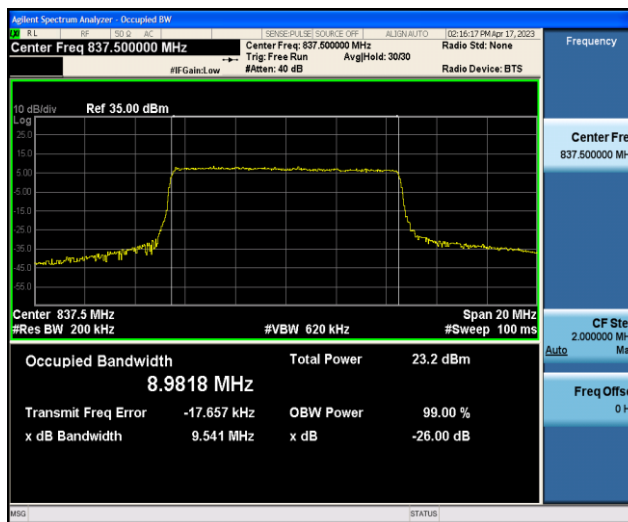
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Band19-10MHz-QPSK-24050-50RB#0



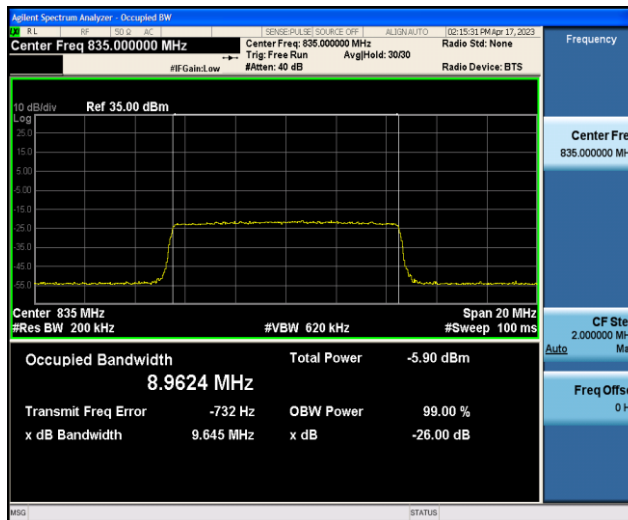
Band19-10MHz-QPSK-24075-50RB#0



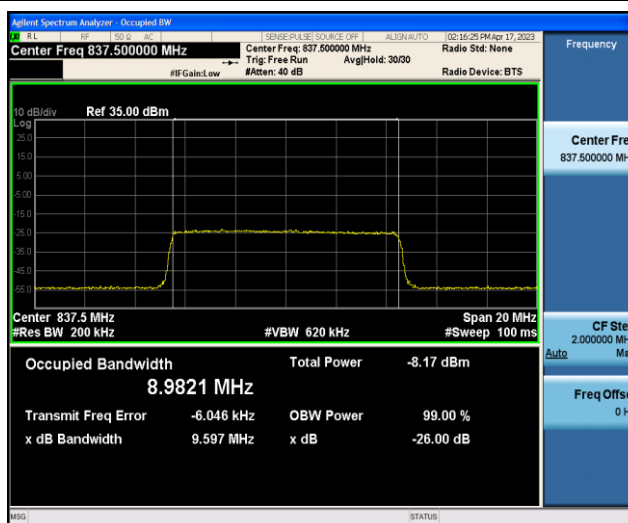
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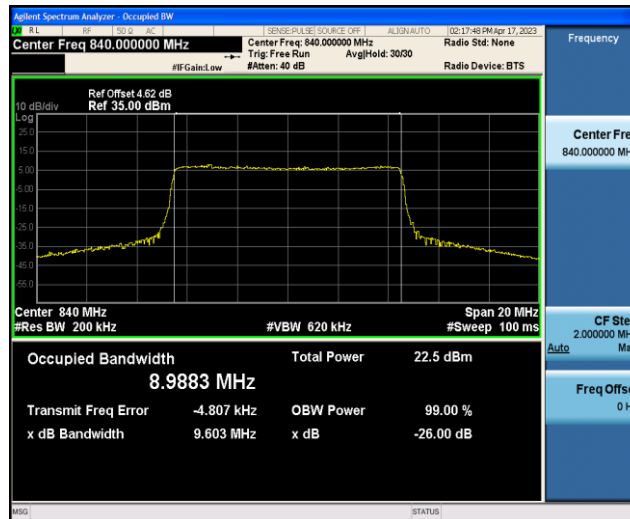
Band19-10MHz-16QAM-24050-50RB#0



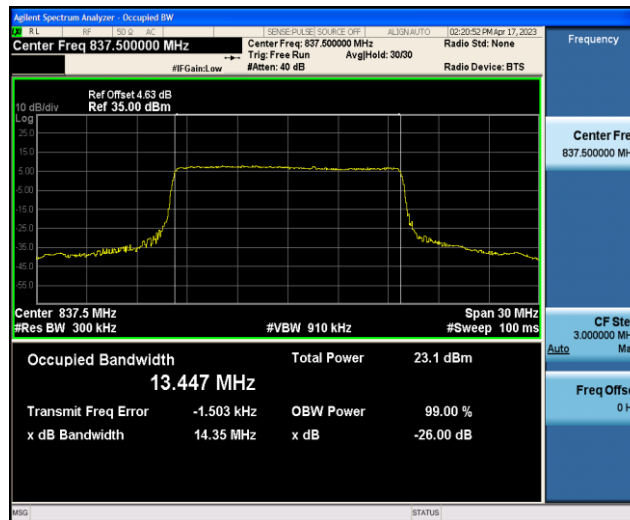
Band19-10MHz-16QAM-24075-50RB#0



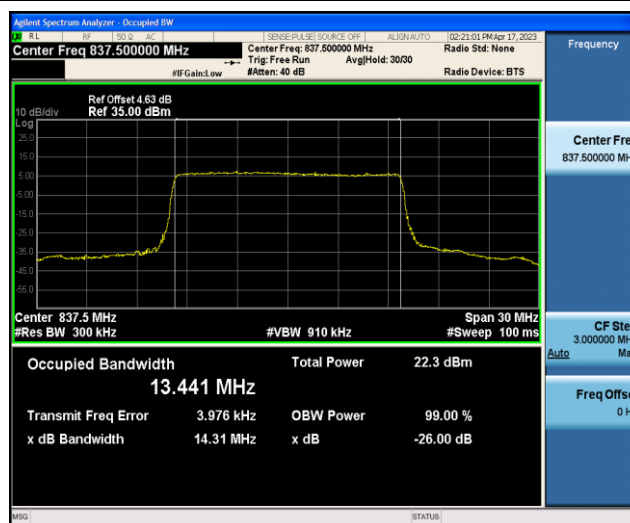
Band19-10MHz-16QAM-24100-50RB#0



Band19-15MHz-QPSK-24075-75RB#0



Band19-15MHz-16QAM-24075-75RB#0



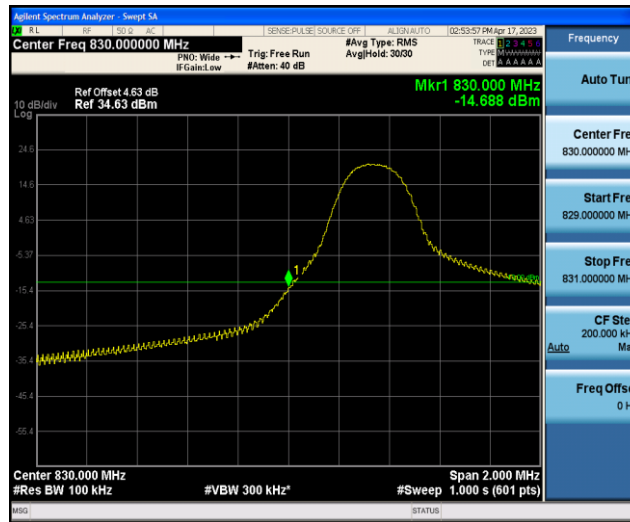
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band19	5MHz	QPSK	24025	1RB#0	-14.69	PASS
Band19	5MHz	QPSK	24025	1RB#24	-32.62	PASS
Band19	5MHz	QPSK	24025	25RB#0	-25.29	PASS
Band19	5MHz	QPSK	24125	1RB#0	-31.19	PASS
Band19	5MHz	QPSK	24125	1RB#24	-14.08	PASS
Band19	5MHz	QPSK	24125	25RB#0	-25.23	PASS
Band19	5MHz	16QAM	24025	1RB#0	-15.19	PASS
Band19	5MHz	16QAM	24025	1RB#24	-33.96	PASS
Band19	5MHz	16QAM	24025	25RB#0	-25.60	PASS
Band19	5MHz	16QAM	24125	1RB#0	-32.43	PASS
Band19	5MHz	16QAM	24125	1RB#24	-15.81	PASS
Band19	5MHz	16QAM	24125	25RB#0	-24.68	PASS
Band19	10MHz	QPSK	24050	1RB#0	-17.77	PASS
Band19	10MHz	QPSK	24050	1RB#49	-34.19	PASS
Band19	10MHz	QPSK	24050	50RB#0	-29.80	PASS
Band19	10MHz	QPSK	24100	1RB#0	-34.63	PASS
Band19	10MHz	QPSK	24100	1RB#49	-16.74	PASS
Band19	10MHz	QPSK	24100	50RB#0	-27.13	PASS
Band19	10MHz	16QAM	24050	1RB#0	-18.30	PASS
Band19	10MHz	16QAM	24050	1RB#49	-33.61	PASS
Band19	10MHz	16QAM	24050	50RB#0	-29.99	PASS
Band19	10MHz	16QAM	24100	1RB#0	-36.64	PASS
Band19	10MHz	16QAM	24100	1RB#49	-17.09	PASS
Band19	10MHz	16QAM	24100	50RB#0	-29.22	PASS

Test Graphs

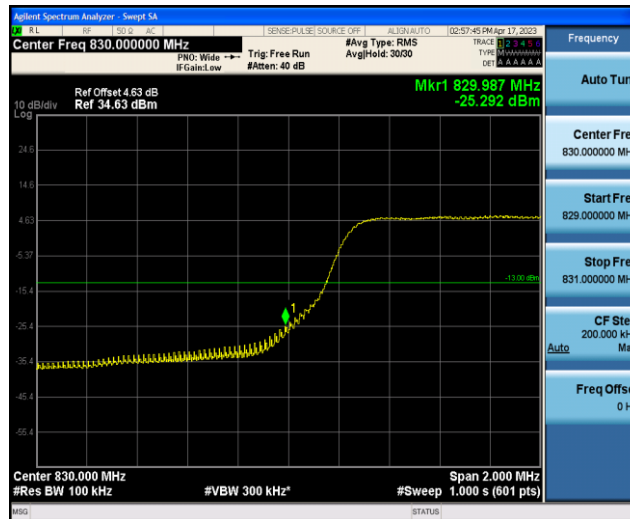
Band19-5MHz-QPSK-24025-1RB#0



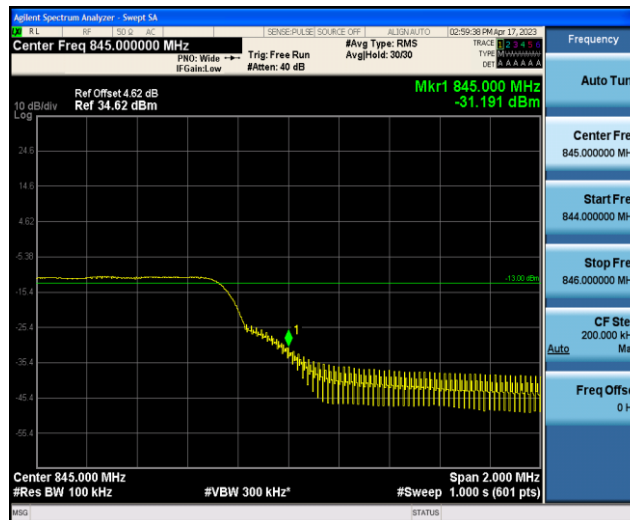
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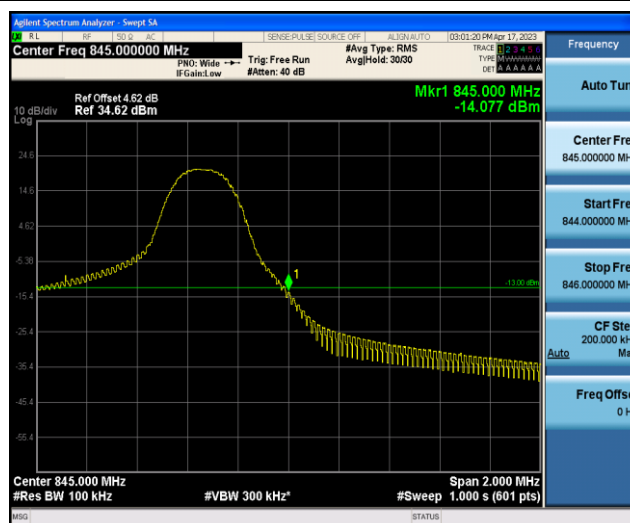
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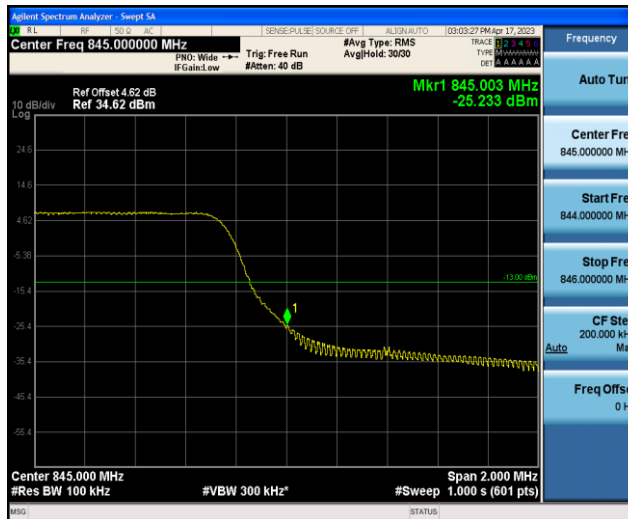
Band19-5MHz-QPSK-24125-1RB#0



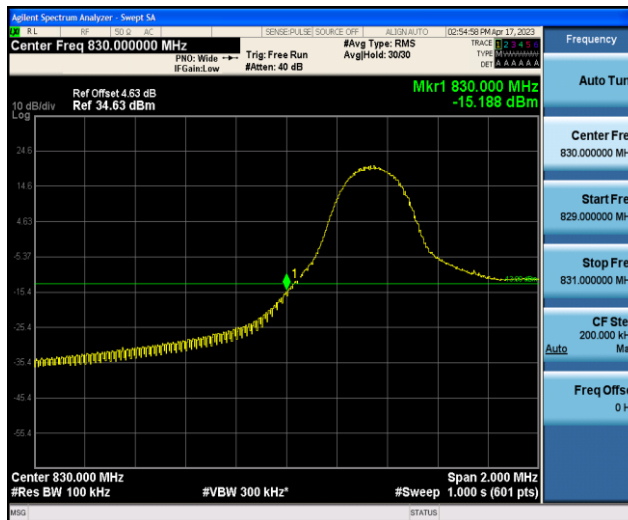
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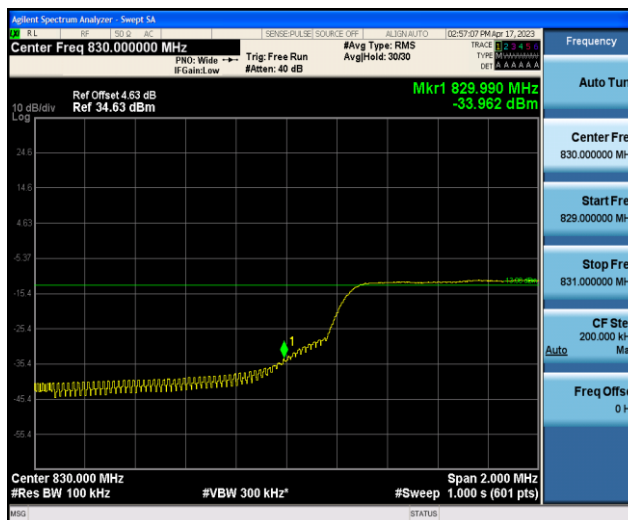
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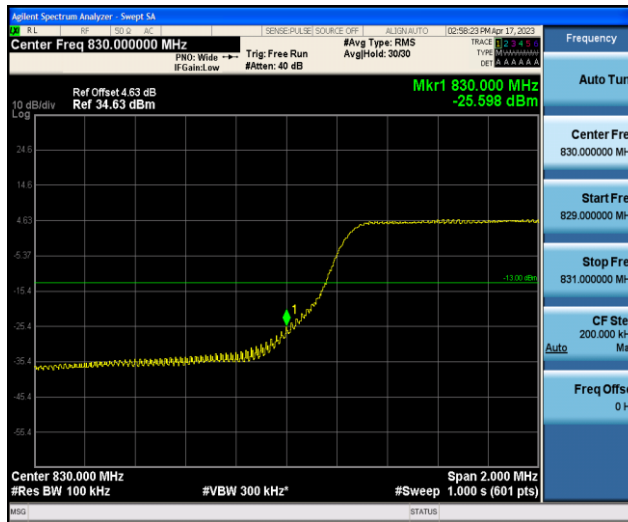
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Band19-5MHz-16QAM-24025-1RB#24



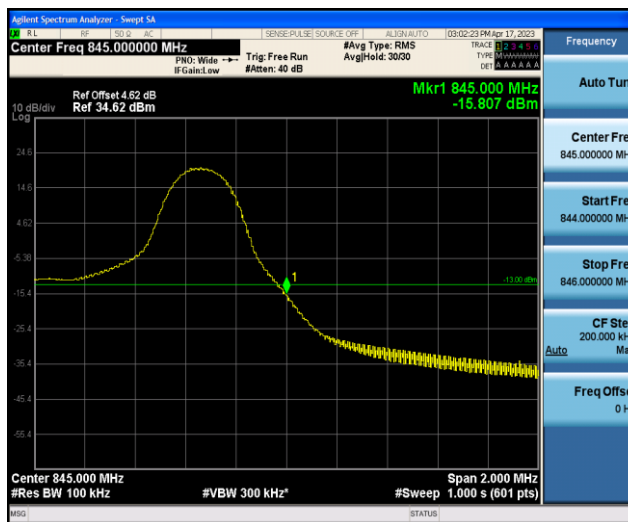
Band19-5MHz-16QAM-24025-25RB#0



Band19-5MHz-16QAM-24125-1RB#0



Band19-5MHz-16QAM-24125-1RB#24



Band19-5MHz-16QAM-24125-25RB#0