



Appendix I: Test Data for E-UTRA Band 7

Product Name: Smart POS

Test Model: WIZARPOS Q3 min

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





I.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.17	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.14	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.33	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.26	PASS
Band7	5MHz	QPSK	20775	1RB#24	20.81	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.22	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.84	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.94	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.85	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.93	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.73	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.94	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.77	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.02	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.27	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.66	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.29	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.72	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.19	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.66	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.54	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.62	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.57	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.61	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.51	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.55	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.41	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.52	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.24	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.02	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.68	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.28	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.40	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.21	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.36	PASS



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Scan code to check authenticity



Band7	5MHz	16QAM	21425	12RB#0	20.90	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.34	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.94	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.53	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.91	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.45	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.05	PASS
Band7	10MHz	QPSK	20800	1RB#0	20.86	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.83	PASS
Band7	10MHz	QPSK	20800	1RB#24	20.82	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.83	PASS
Band7	10MHz	QPSK	20800	1RB#49	20.94	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.95	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.86	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.66	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.88	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.67	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.96	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.64	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.90	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.72	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.28	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.35	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.38	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.37	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.28	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.34	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.53	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.79	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.46	PASS
Band7	10MHz	16QAM	21100	25RB#12	20.81	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.50	PASS
Band7	10MHz	16QAM	21100	25RB#25	20.71	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.49	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.69	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.09	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.97	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.25	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.26	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.74	PASS





Band7	10MHz	16QAM	21400	1RB#49	21.57	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.17	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.84	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.15	PASS
Band7	10MHz	16QAM	21400	25RB#12	20.94	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.62	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.89	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.39	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.90	PASS
Band7	15MHz	QPSK	20825	1RB#0	20.86	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.83	PASS
Band7	15MHz	QPSK	20825	1RB#38	20.73	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.74	PASS
Band7	15MHz	QPSK	20825	1RB#74	20.80	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.83	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.81	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.81	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.81	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.80	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.80	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.80	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.80	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.78	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.06	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.68	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.04	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.60	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.67	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.61	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.48	PASS
Band7	15MHz	16QAM	21100	38RB#0	21.49	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.49	PASS
Band7	15MHz	16QAM	21100	38RB#18	21.50	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.50	PASS
Band7	15MHz	16QAM	21100	38RB#37	21.50	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.50	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.68	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.06	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.77	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.09	PASS





Band7	15MHz	16QAM	21375	1RB#38	20.89	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.37	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.17	PASS
Band7	15MHz	QPSK	21375	38RB#0	21.18	PASS
Band7	15MHz	16QAM	21375	38RB#0	21.17	PASS
Band7	15MHz	QPSK	21375	38RB#18	21.16	PASS
Band7	15MHz	16QAM	21375	38RB#18	21.16	PASS
Band7	15MHz	QPSK	21375	38RB#37	21.16	PASS
Band7	15MHz	16QAM	21375	38RB#37	21.16	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.15	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.89	PASS
Band7	20MHz	QPSK	20850	1RB#0	20.91	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.76	PASS
Band7	20MHz	QPSK	20850	1RB#49	20.78	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.66	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.74	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.15	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.66	PASS
Band7	20MHz	16QAM	20850	50RB#0	20.68	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.66	PASS
Band7	20MHz	16QAM	20850	50RB#25	20.68	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.17	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.80	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.91	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.75	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.19	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.99	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.28	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.02	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.08	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.95	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.53	PASS
Band7	20MHz	16QAM	21100	50RB#0	20.68	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.48	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.67	PASS
Band7	20MHz	QPSK	21100	50RB#50	21.46	PASS
Band7	20MHz	16QAM	21100	50RB#50	20.68	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.49	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.66	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.34	PASS



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Band7	20MHz	16QAM	21350	1RB#0	21.12	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.88	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.79	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.67	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.04	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.10	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.03	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.09	PASS
Band7	20MHz	QPSK	21350	50RB#50	21.36	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.04	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.19	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.92	PASS





I.2 Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.45	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.55	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.08	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.47	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.34	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.19	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.22	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.91	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.62	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.72	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.00	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.55	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.30	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.57	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.11	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.49	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.15	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.91	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.21	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.95	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.57	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.87	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.02	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.63	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.29	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.55	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.41	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.65	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.08	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	4.77	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.46	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.98	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.57	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	4.87	13	PASS



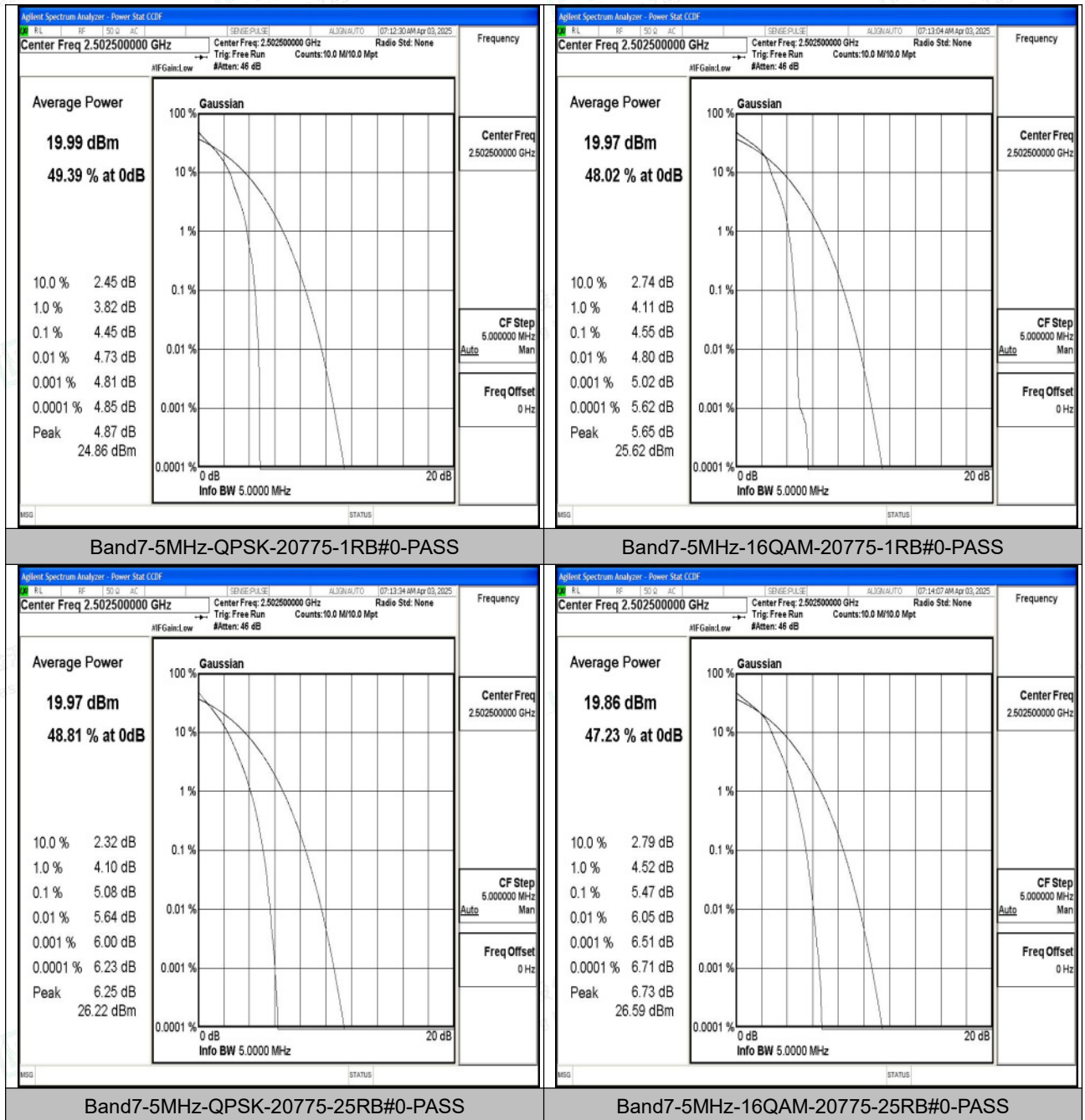


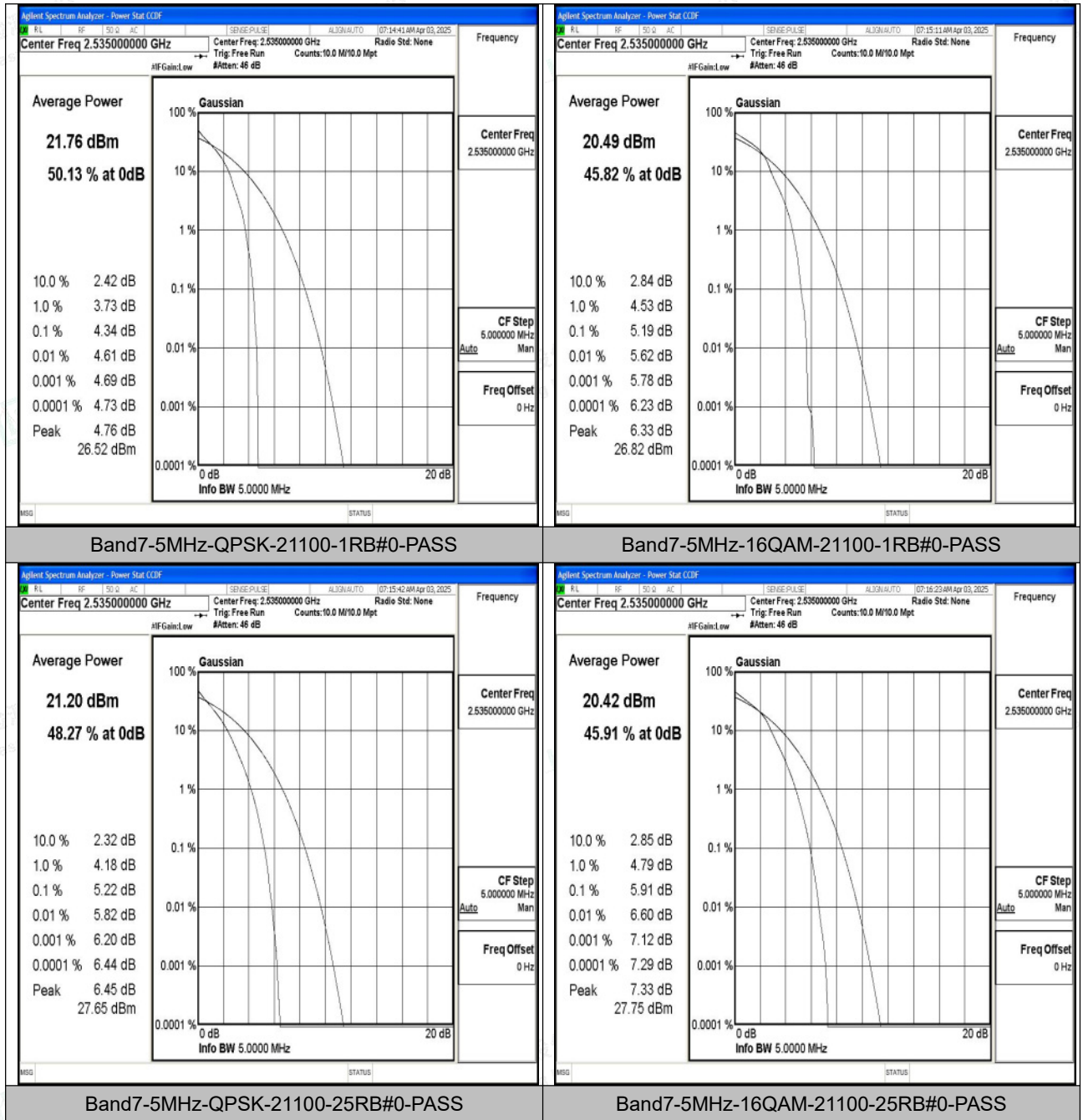
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Band7	15MHz	16QAM	21375	75RB#0	5.72	13	PASS
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Band7	20MHz	16QAM	20850	1RB#0	4.42	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.17	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.56	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	4.04	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.87	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.16	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.92	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.48	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.68	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.08	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.66	13	PASS

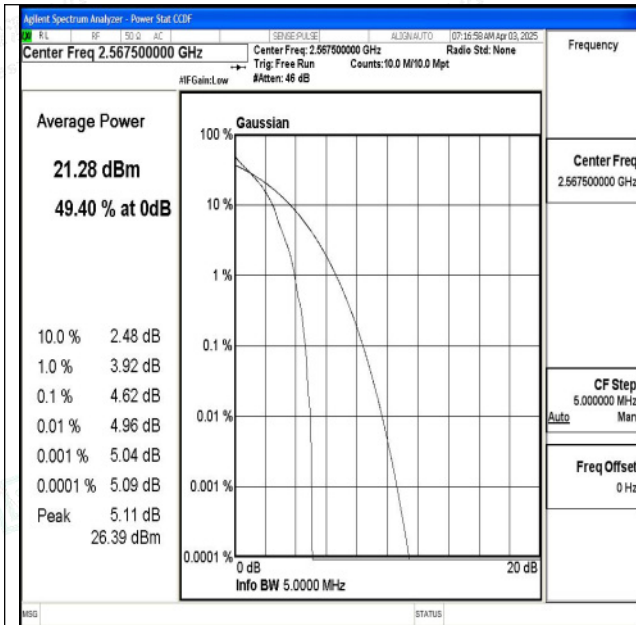




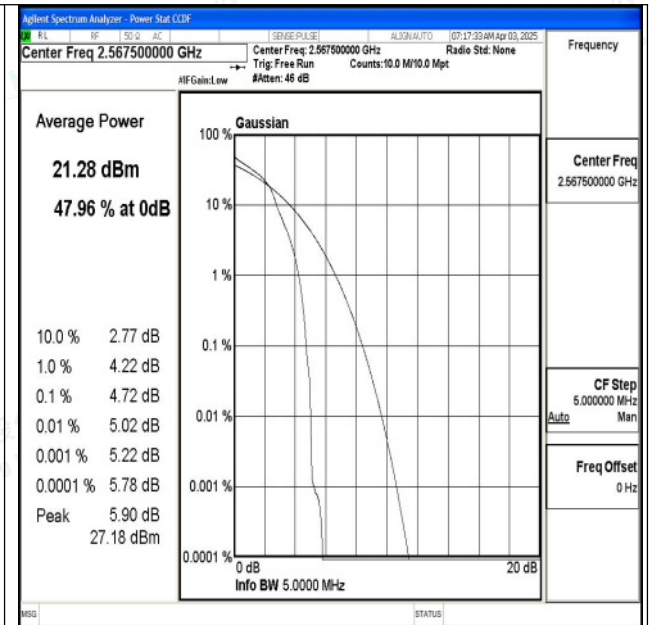
Test Graphs



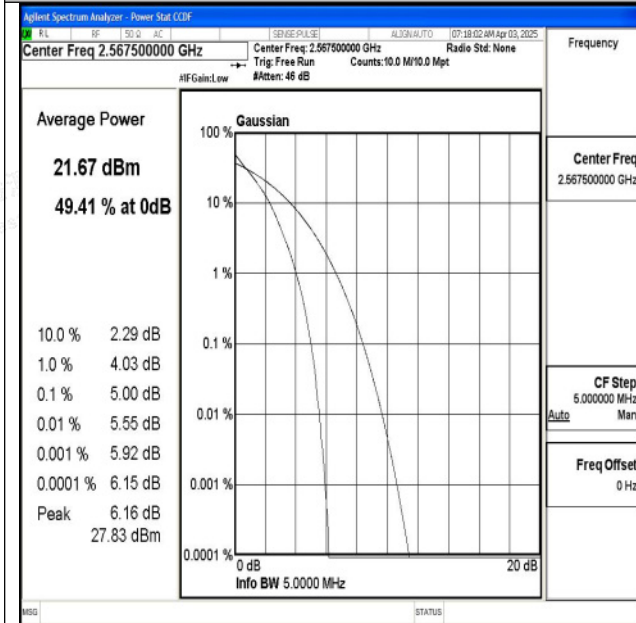




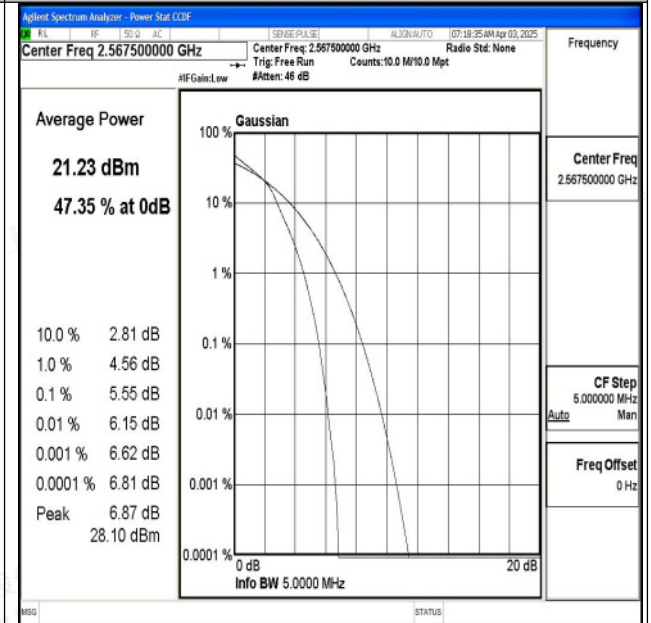
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Band7-5MHz-16QAM-21425-1RB#0-PASS

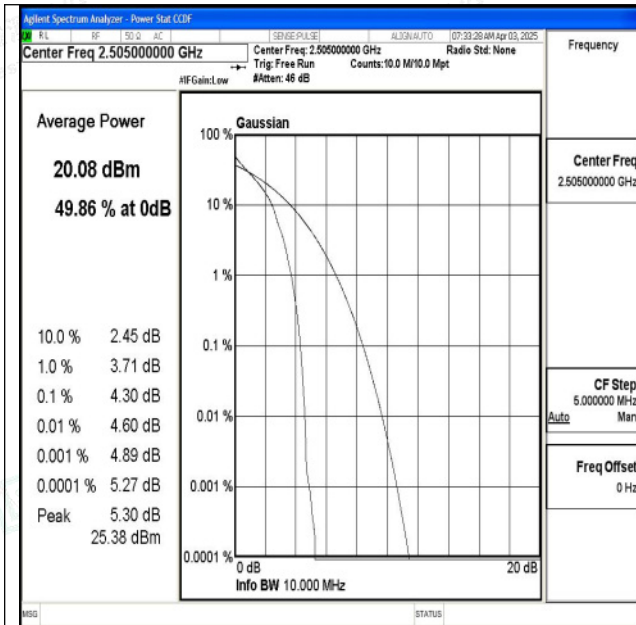


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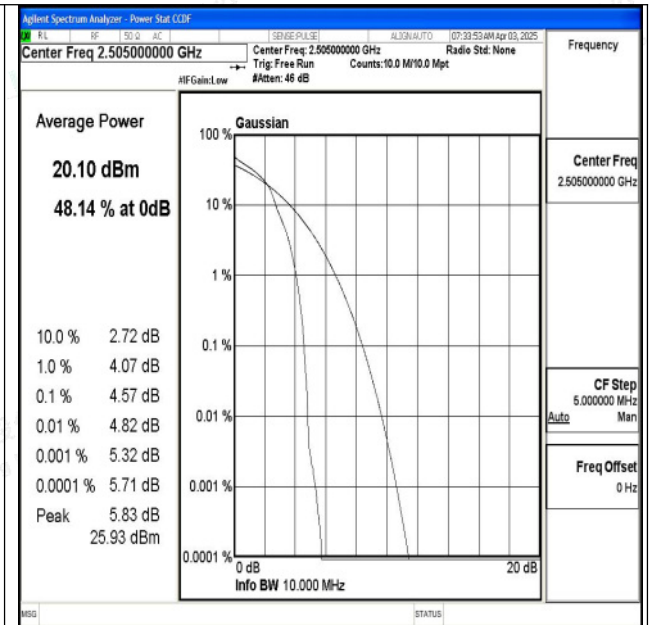


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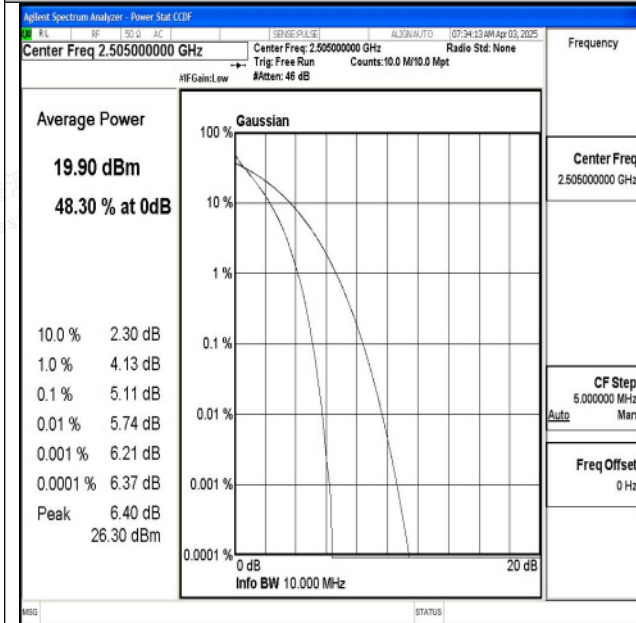




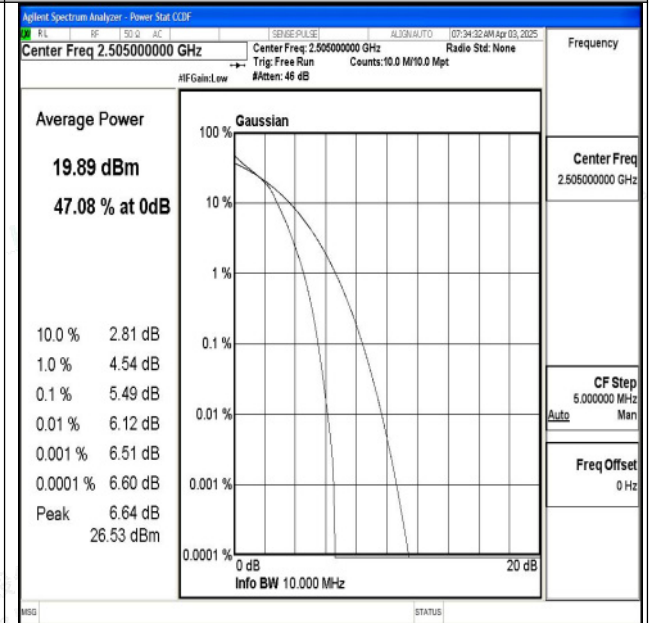
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Band7-10MHz-16QAM-20800-1RB#0-PASS

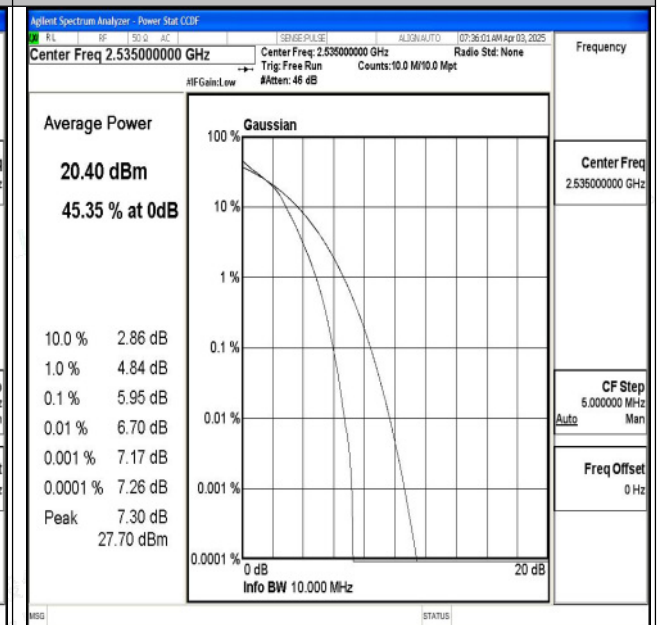
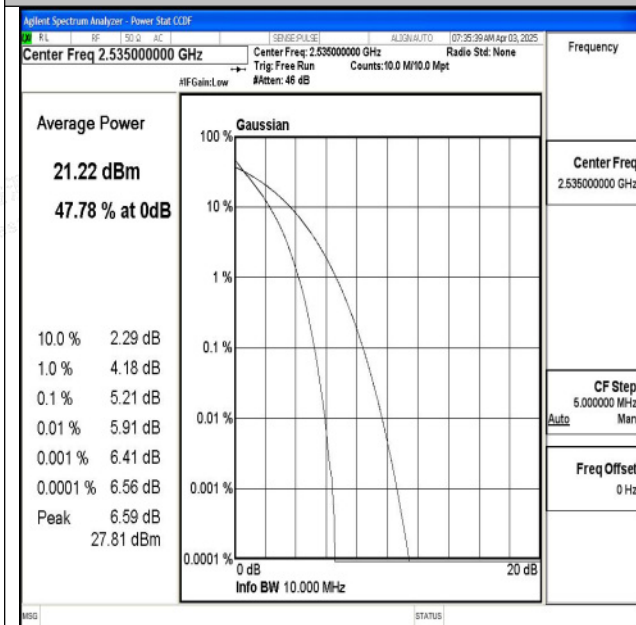
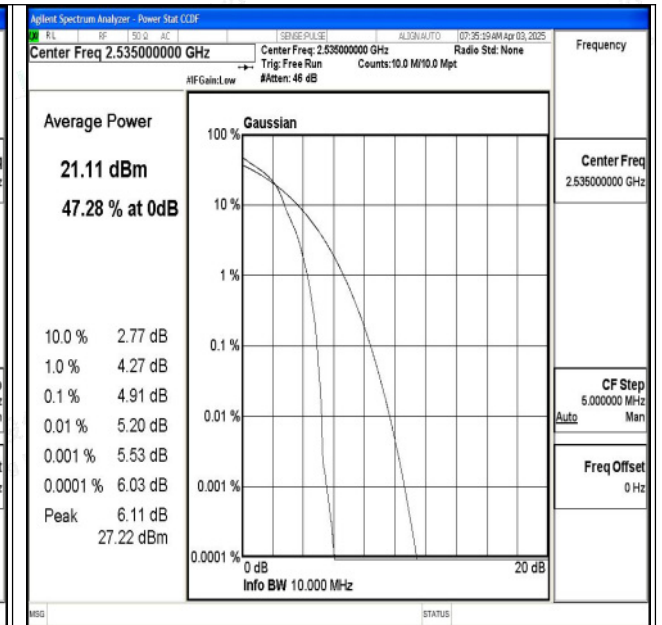
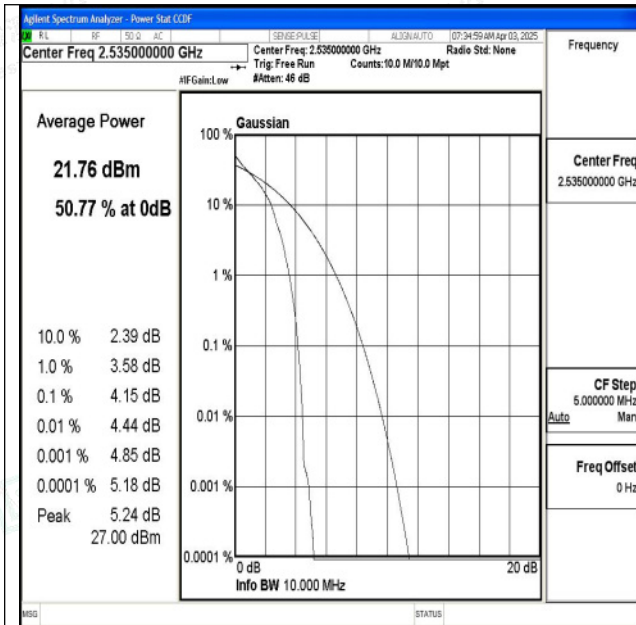


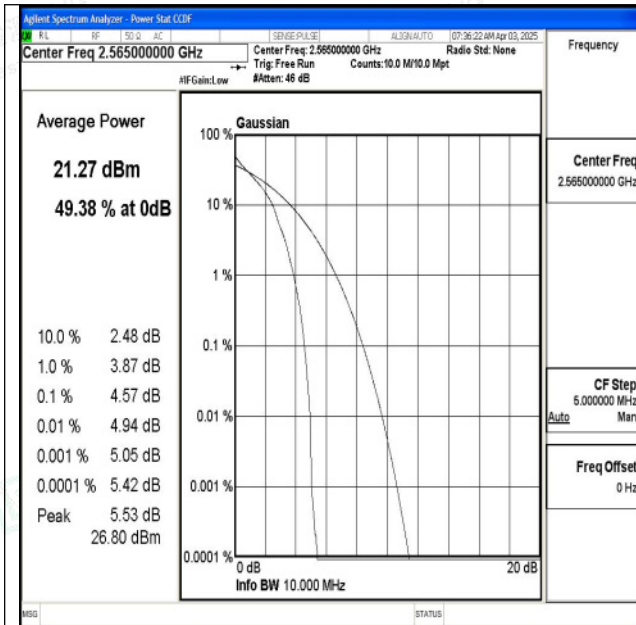
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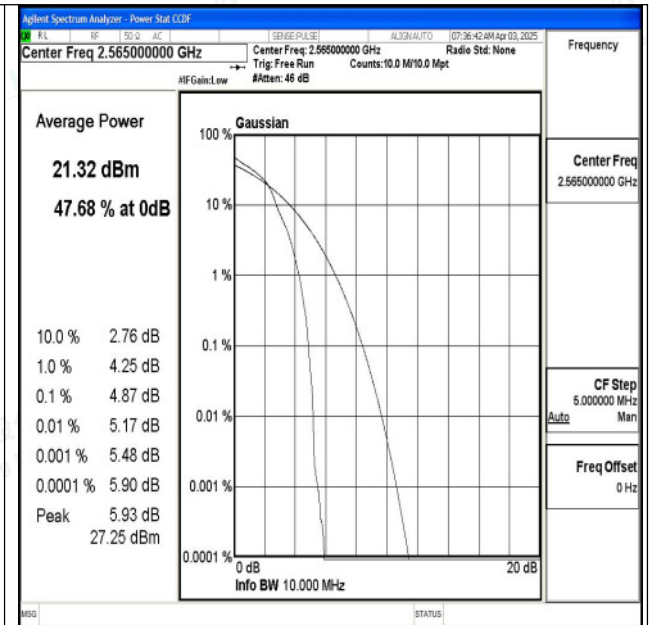
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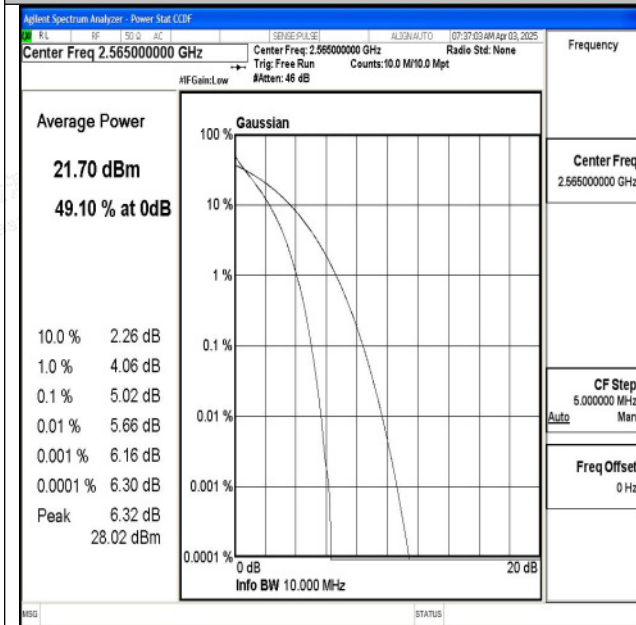




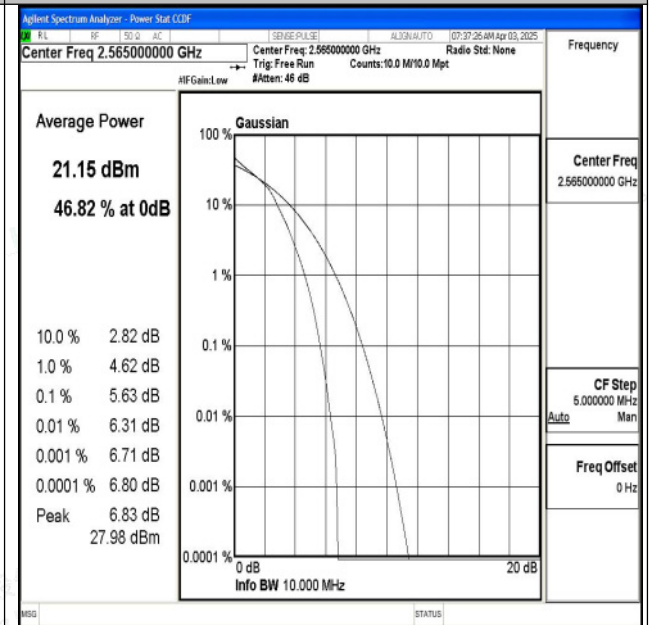
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Band7-10MHz-16QAM-21400-1RB#0-PASS

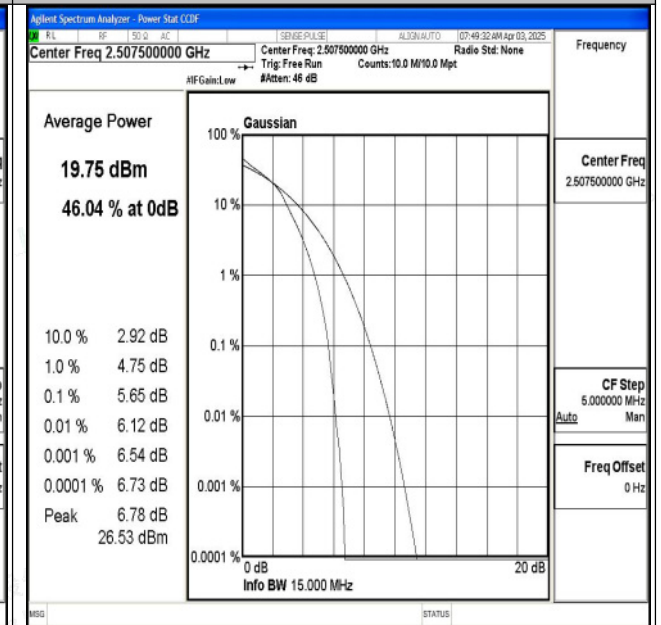
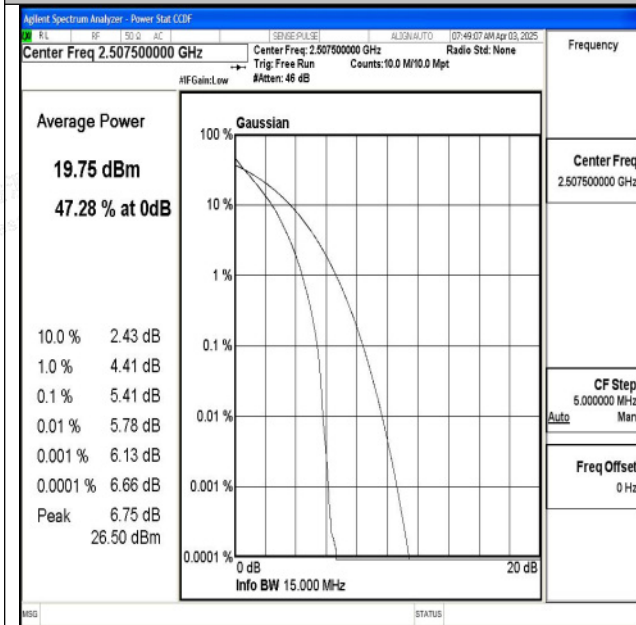
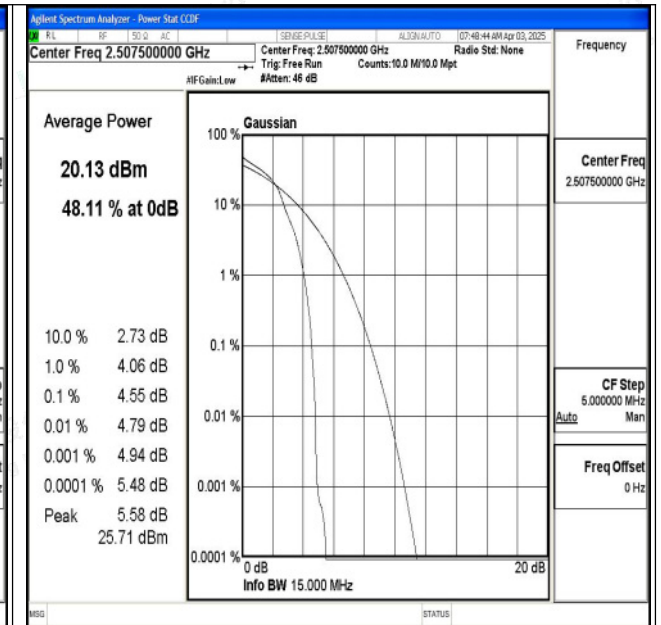
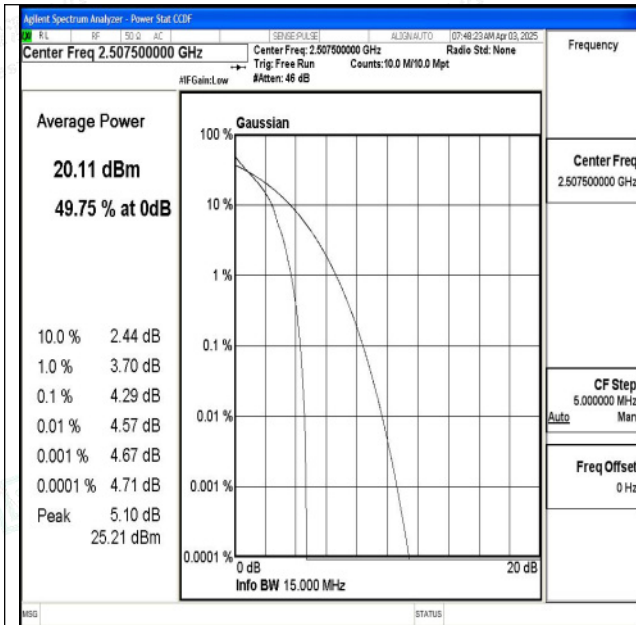


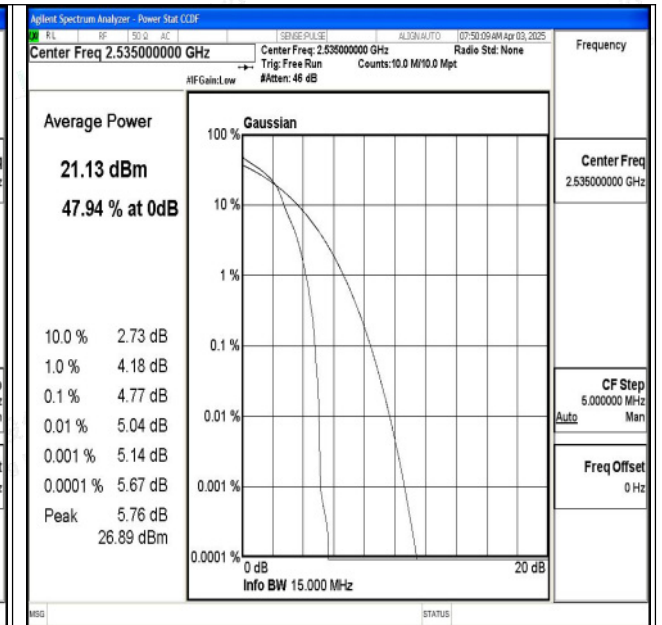
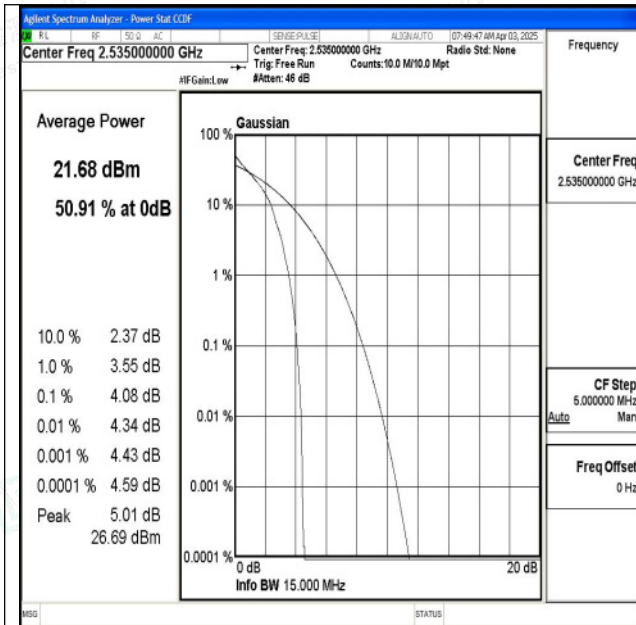
Band7-10MHz-QPSK-21400-50RB#0-PASS



Band7-10MHz-16QAM-21400-50RB#0-PASS

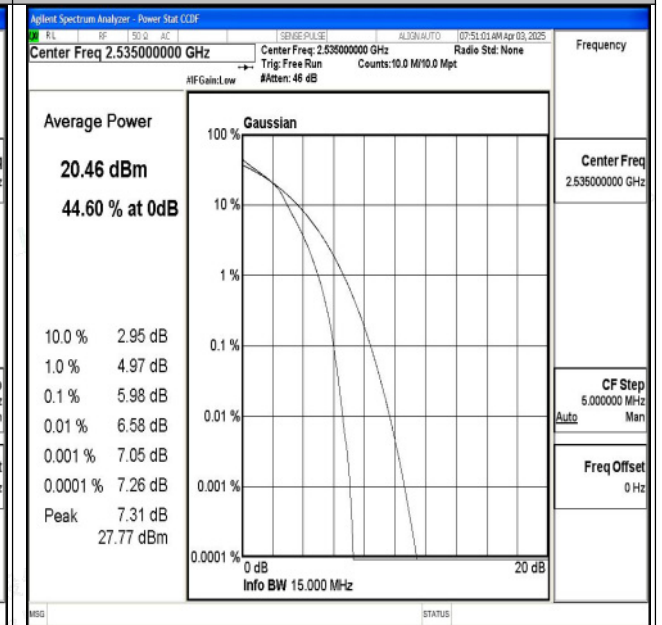
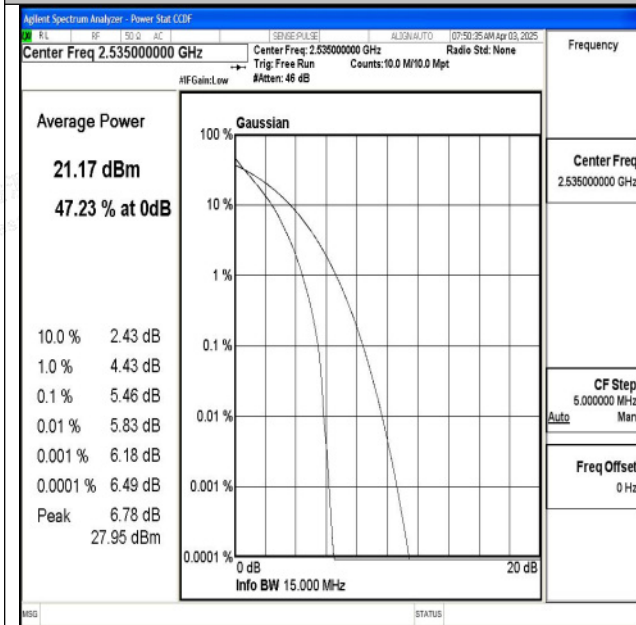






Band7-15MHz-QPSK-21100-1RB#0-PASS

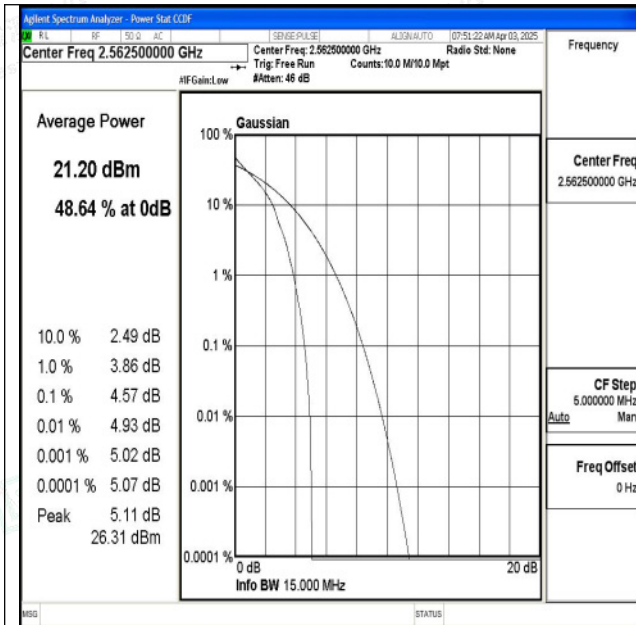
Band7-15MHz-16QAM-21100-1RB#0-PASS



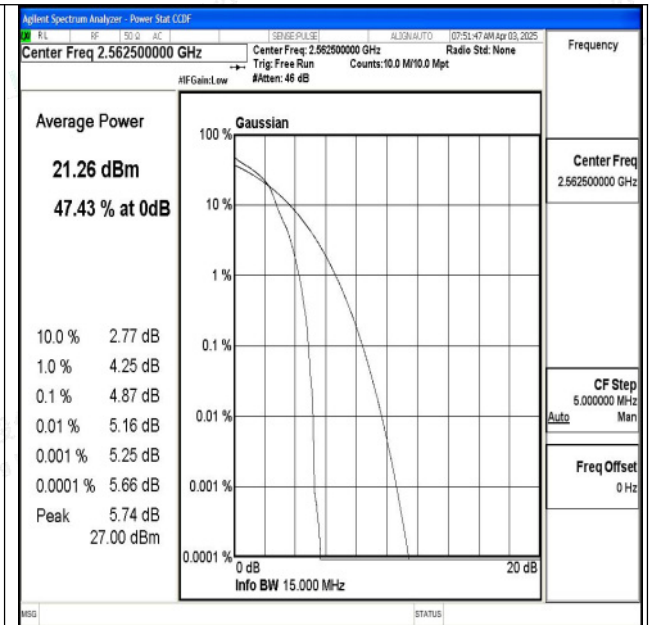
Band7-15MHz-QPSK-21100-75RB#0-PASS

Band7-15MHz-16QAM-21100-75RB#0-PASS

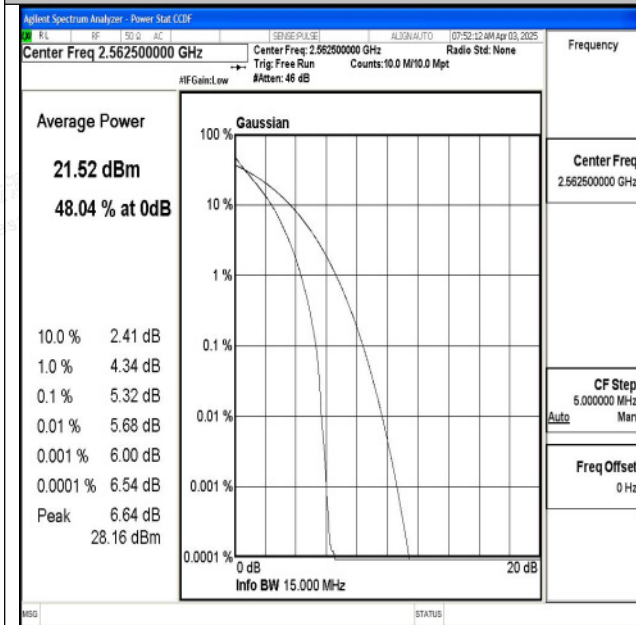




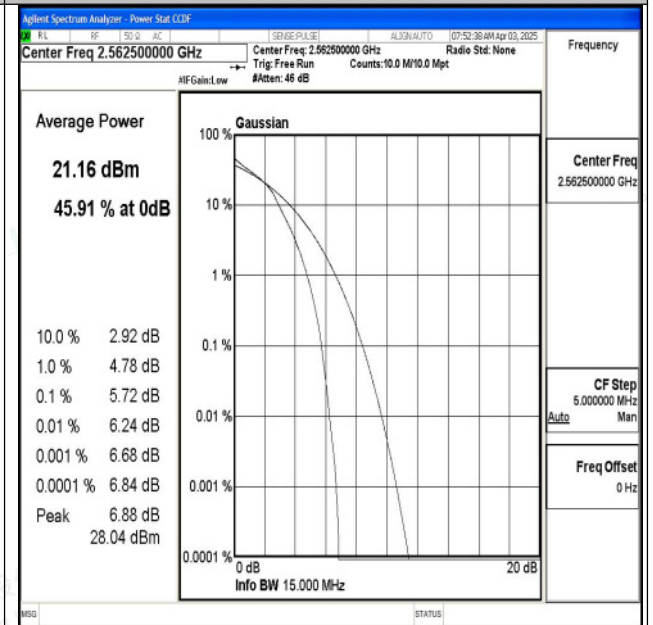
Band7-15MHz-QPSK-21375-1RB#0-PASS



Band7-15MHz-16QAM-21375-1RB#0-PASS

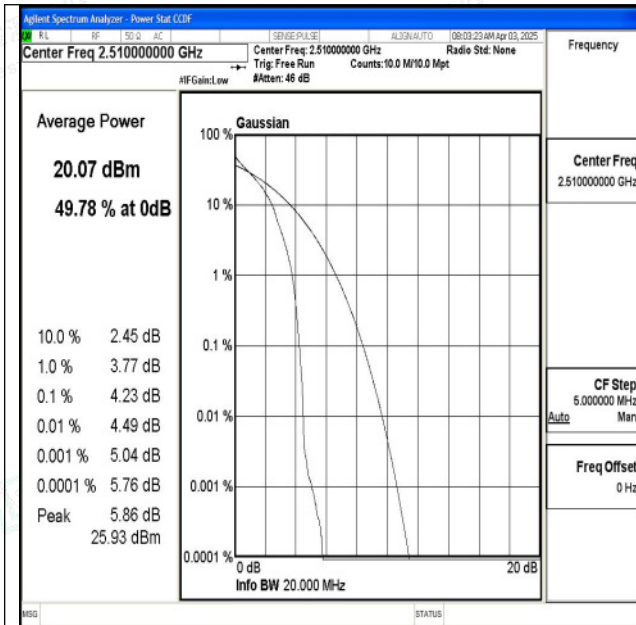


Band7-15MHz-QPSK-21375-75RB#0-PASS

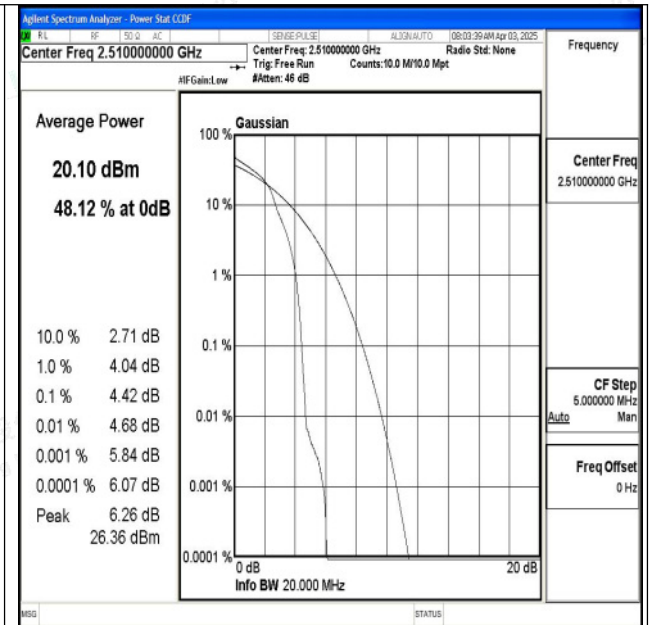


Band7-15MHz-16QAM-21375-75RB#0-PASS

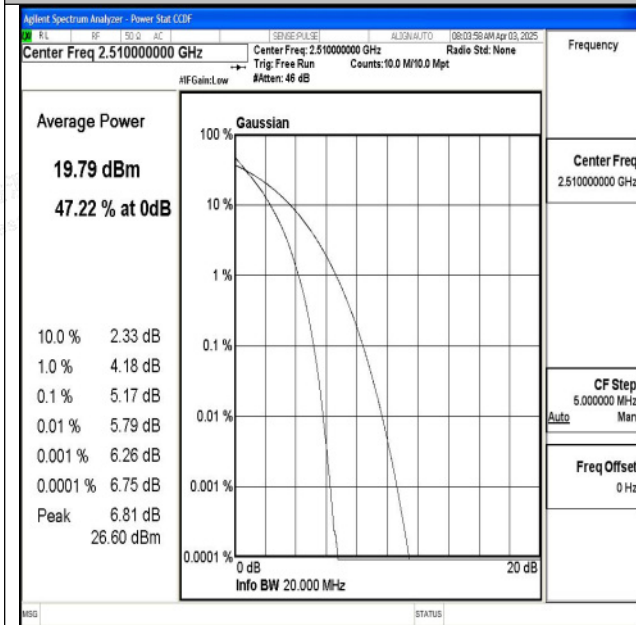




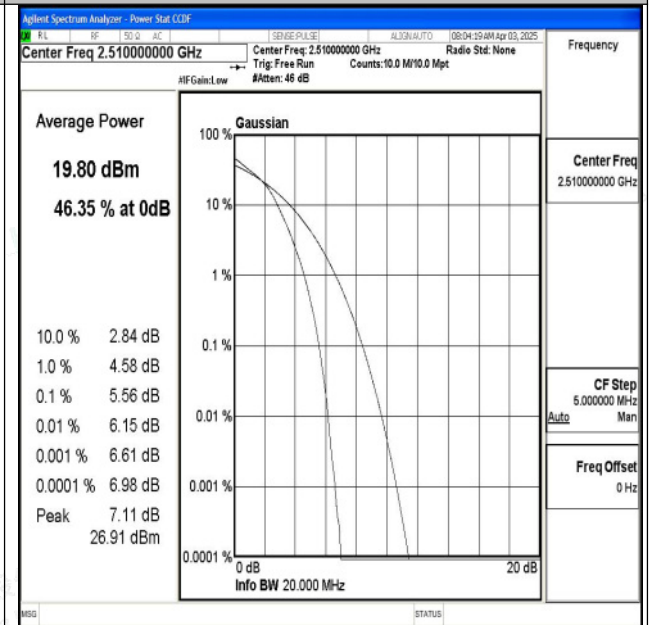
Band7-20MHz-QPSK-20850-1RB#0-PASS



Band7-20MHz-16QAM-20850-1RB#0-PASS

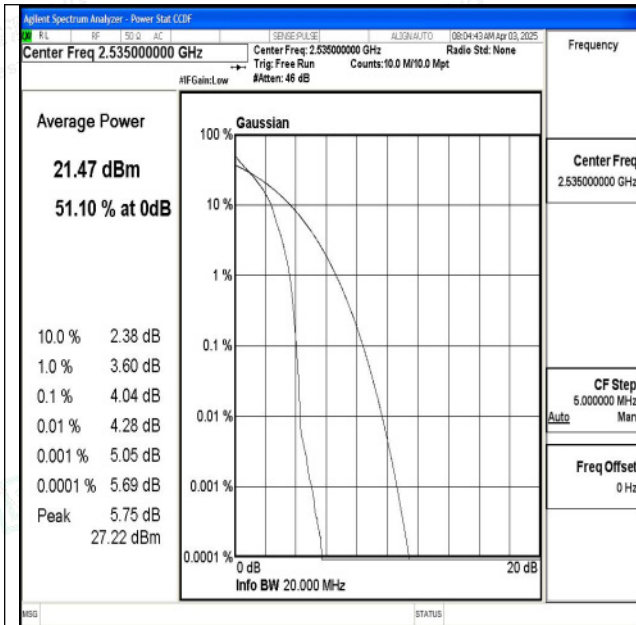


Band7-20MHz-QPSK-20850-100RB#0-PASS

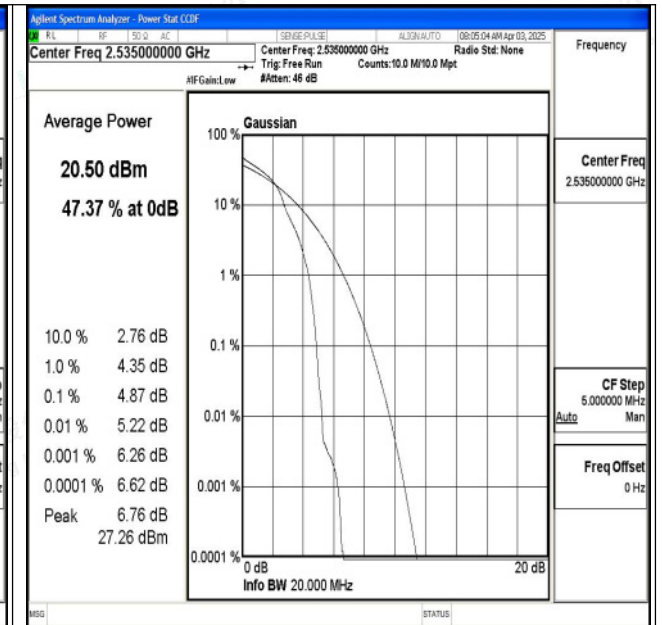


Band7-20MHz-16QAM-20850-100RB#0-PASS

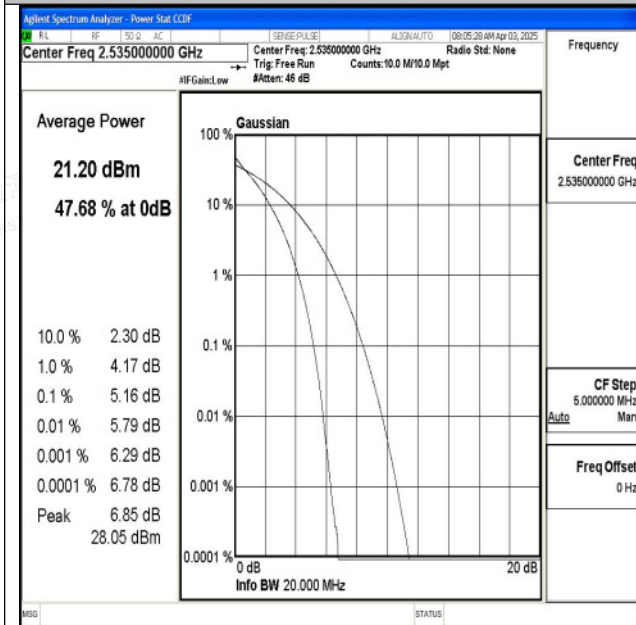




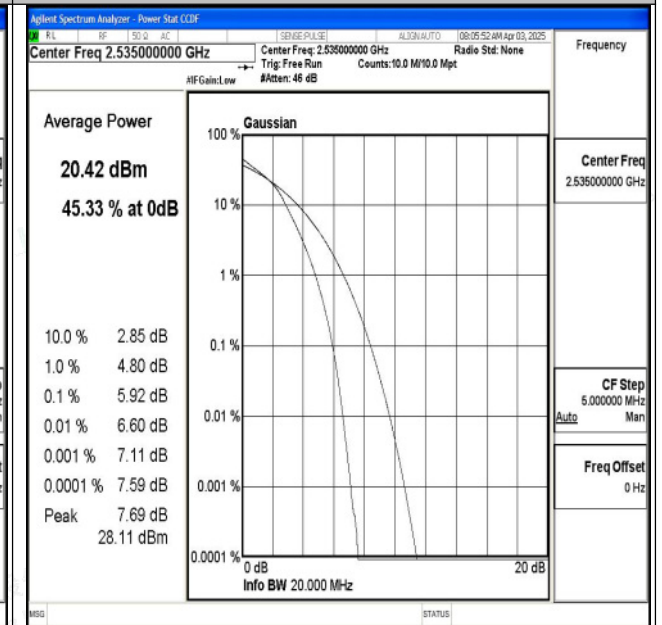
Band7-20MHz-QPSK-21100-1RB#0-PASS



Band7-20MHz-16QAM-21100-1RB#0-PASS

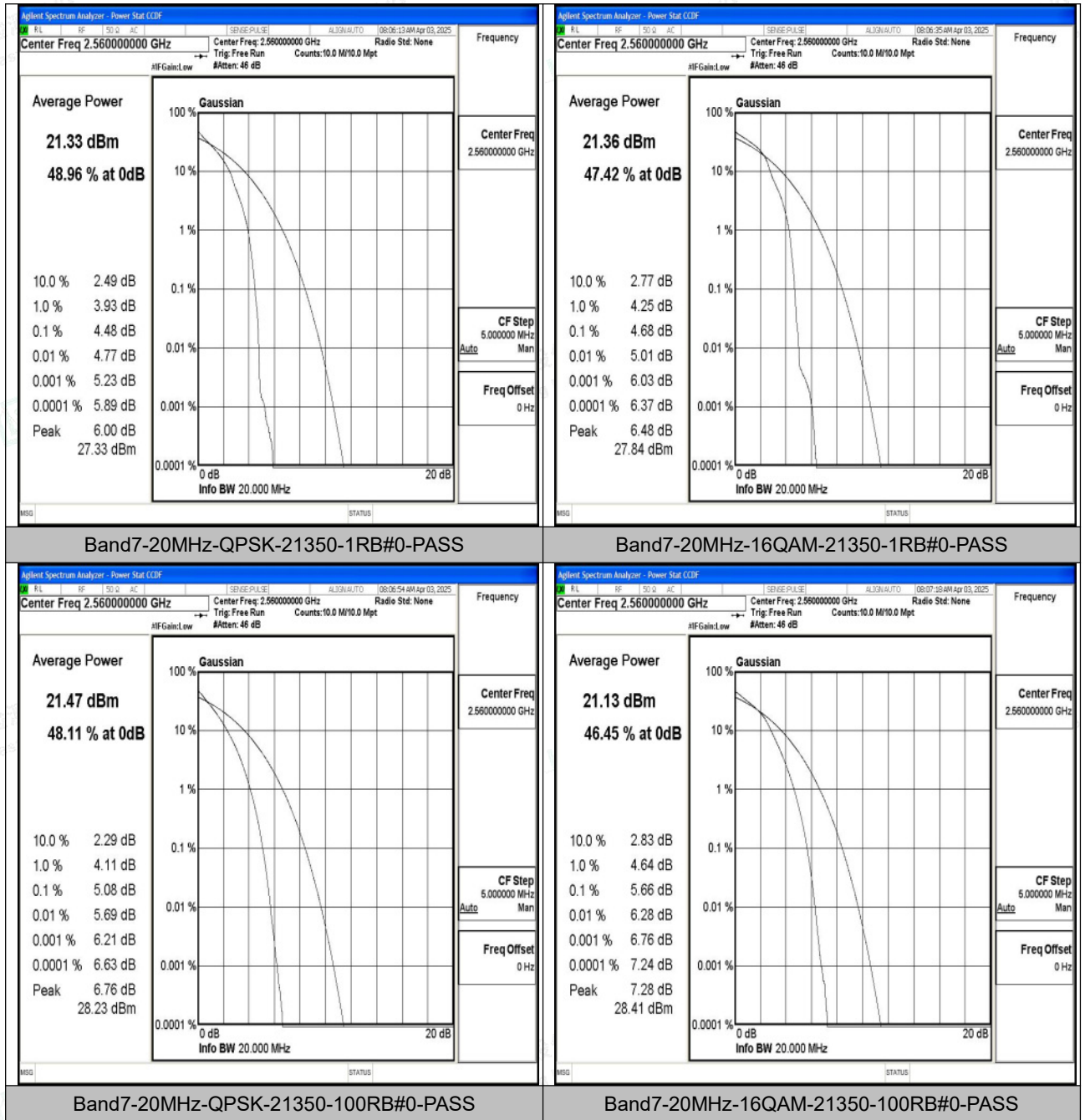


Band7-20MHz-QPSK-21100-100RB#0-PASS



Band7-20MHz-16QAM-21100-100RB#0-PASS







I.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5213	5.392	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5280	5.332	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5130	5.322	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5116	5.301	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5080	5.433	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5354	5.363	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.522	15.08	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.548	15.33	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.499	15.18	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.524	15.06	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.507	15.68	PASS
Band7	10MHz	QPSK	20800	50RB#0	9.0150	10.16	PASS
Band7	10MHz	16QAM	20800	50RB#0	9.0220	10.23	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9992	10.11	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9868	10.08	PASS
Band7	10MHz	QPSK	21400	50RB#0	9.0282	10.28	PASS
Band7	10MHz	16QAM	21400	50RB#0	9.0148	10.54	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.519	15.01	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.046	20.18	PASS
Band7	20MHz	16QAM	20850	100RB#0	18.051	20.27	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.988	19.89	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.989	19.70	PASS
Band7	20MHz	QPSK	21350	100RB#0	18.012	20.22	PASS
Band7	20MHz	16QAM	21350	100RB#0	18.047	20.35	PASS





Test Graphs

