Appendix H: Test Data for E-UTRA Band 7

Product Name: GNSS RECEIVER

Test Model: INNO8

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.23	PASS
Band7	5MHz	16QAM	20775	1RB#0	19.81	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.07	PASS
Band7	5MHz	16QAM	20775	1RB#12	19.87	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.15	PASS
Band7	5MHz	16QAM	20775	1RB#24	19.82	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.14	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.41	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.14	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.39	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.27	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.44	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.25	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.55	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.12	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.63	PASS
Band7	5MHz	QPSK	21100	1RB#12	20.78	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.45	PASS
Band7	5MHz	QPSK	21100	1RB#24	20.84	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.02	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.40	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.51	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.39	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.56	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.32	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.42	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.31	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.35	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.37	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.16	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.39	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.21	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.40	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.11	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.65	PASS

Band7	5MHz	16QAM	21425	12RB#0	19.85	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.61	PASS
Band7	5MHz	16QAM	21425	12RB#6	19.83	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.71	PASS
Band7	5MHz	16QAM	21425	12RB#13	19.82	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.64	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.90	PASS
Band7	10MHz	QPSK	20800	1RB#0	20.36	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.32	PASS
Band7	10MHz	QPSK	20800	1RB#24	20.62	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.62	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.03	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.69	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.48	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.66	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.49	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.68	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.62	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.81	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.58	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.80	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.59	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.76	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.42	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.48	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.33	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.43	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.72	PASS
Band7	10MHz	16QAM	21100	25RB#0	19.98	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.70	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.96	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.59	PASS
Band7	10MHz	16QAM	21100	25RB#25	19.91	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.35	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.78	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.74	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.61	PASS
Band7	10MHz	QPSK	21400	1RB#24	20.91	PASS
Band7	10MHz	16QAM	21400	1RB#24	20.91	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.31	PASS

Band7	10MHz	16QAM	21400	1RB#49	21.01	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.84	PASS
Band7	10MHz	16QAM	21400	25RB#0	19.97	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.81	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.96	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.88	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.03	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.81	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.06	PASS
Band7	15MHz	QPSK	20825	1RB#0	20.23	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.18	PASS
Band7	15MHz	QPSK	20825	1RB#38	20.61	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.60	PASS
Band7	15MHz	QPSK	20825	1RB#74	20.84	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.87	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.61	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.60	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.60	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.59	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.57	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.57	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.57	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.82	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.27	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.91	PASS
Band7	15MHz	QPSK	21100	1RB#38	20.95	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.70	PASS
Band7	15MHz	QPSK	21100	1RB#74	20.79	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.52	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.80	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.49	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.50	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.51	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.51	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.52	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.52	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.83	PASS
Band7	15MHz	QPSK	21375	1RB#0	20.77	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.42	PASS
Band7	15MHz	QPSK	21375	1RB#38	20.69	PASS

Band7	15MHz	16QAM	21375	1RB#38	20.45	PASS
Band7	15MHz	QPSK	21375	1RB#74	20.84	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.63	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.72	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.71	PASS
Band7	15MHz	QPSK	21375	38RB#18	20.70	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.70	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.70	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.69	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.69	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	20.21	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.05	PASS
Band7	20MHz	QPSK	20850	1RB#49	20.74	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.41	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.57	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.64	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.27	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.90	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.28	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.98	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.75	PASS
Band7	20MHz	16QAM	20850	50RB#50	20.17	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.73	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.95	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.80	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.49	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.47	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.19	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.30	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.98	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.80	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.98	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.86	PASS
Band7	20MHz	16QAM	21100	50RB#25	20.03	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.56	PASS
Band7	20MHz	16QAM	21100	50RB#50	19.72	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.73	PASS
Band7	20MHz	16QAM	21100	100RB#0	19.98	PASS
Band7	20MHz	QPSK	21350	1RB#0	20.67	PASS

Band7	20MHz	16QAM	21350	1RB#0	20.42	PASS
Band7	20MHz	QPSK	21350	1RB#49	20.52	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.38	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.22	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.97	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.57	PASS
Band7	20MHz	16QAM	21350	50RB#0	20.04	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.57	PASS
Band7	20MHz	16QAM	21350	50RB#25	20.04	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.85	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.18	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.71	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.91	PASS

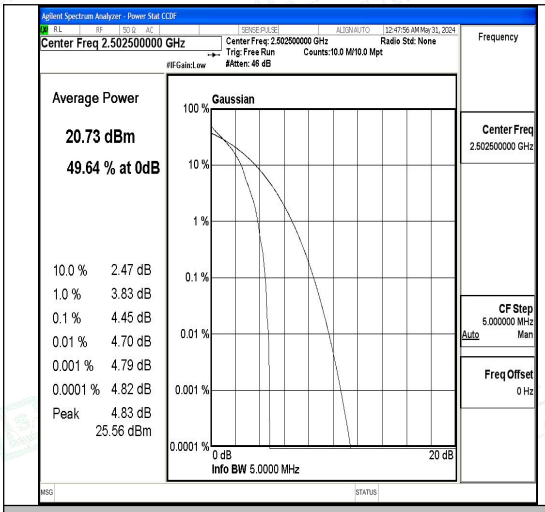
H.2 Peak-to-Average Ratio(CCDF)

Test Result

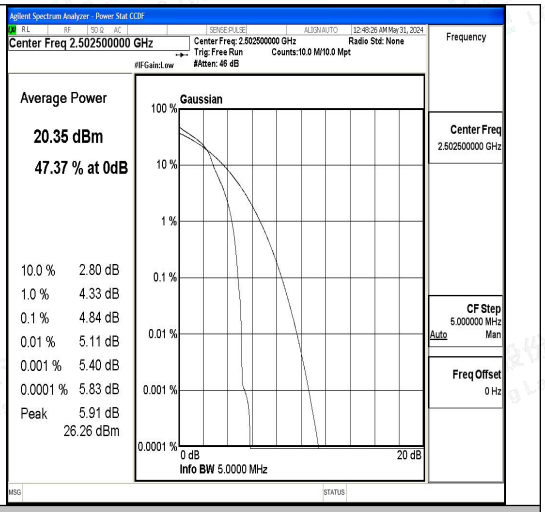
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	4.45	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.84	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	5.13	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.78	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	4.56	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.39	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.34	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.00	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	4.55	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.87	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.07	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.72	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	4.36	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.66	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	5.13	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.79	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	4.37	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	5.28	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	5.33	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.04	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.60	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.93	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	5.10	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.77	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	4.41	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.66	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.41	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.81	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	4.29	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.00	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.55	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.07	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.65	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	4.98	13	PASS

Band7	15MHz	QPSK	21375	75RB#0	5.32	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.87	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	4.33	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.63	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.16	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.80	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.96	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	5.01	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.27	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.03	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.57	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	4.79	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.10	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.84	13	PASS

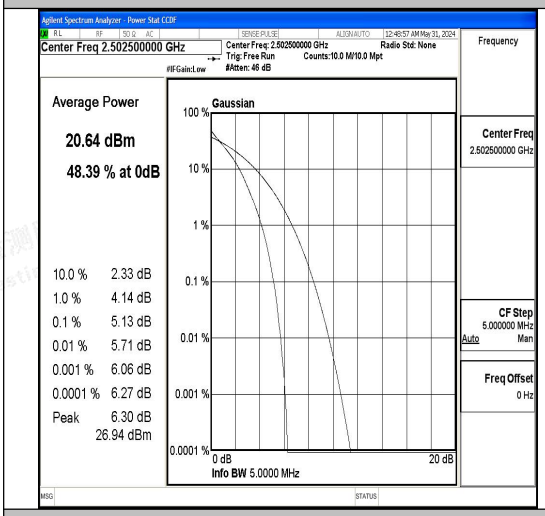
Test Graphs



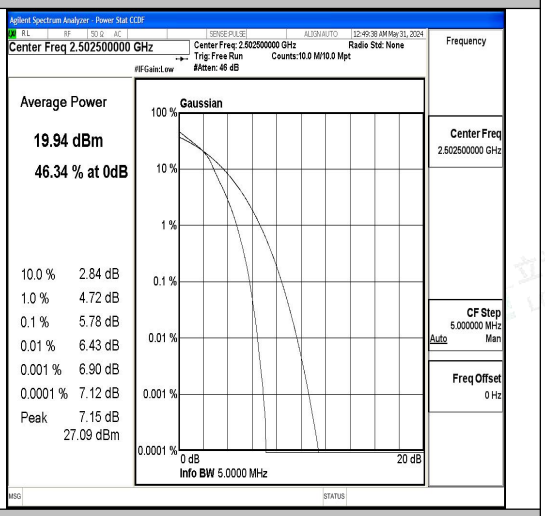
Band7-5MHz-QPSK-20775-1RB#0-PASS



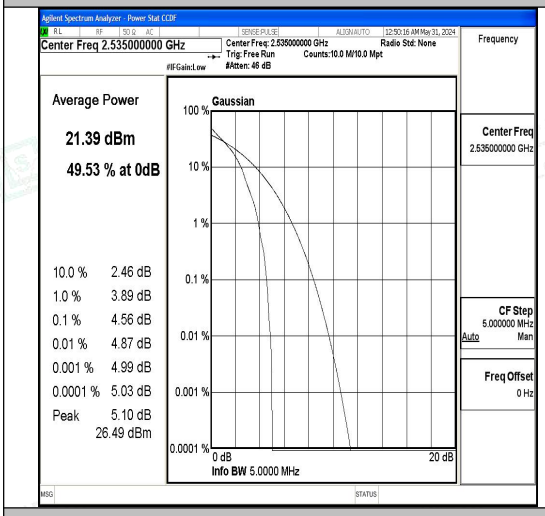
Band7-5MHz-16QAM-20775-1RB#0-PASS



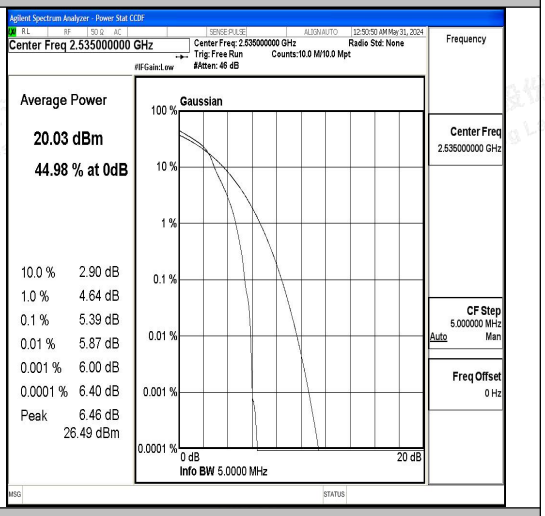
Band7-5MHz-QPSK-20775-25RB#0-PASS



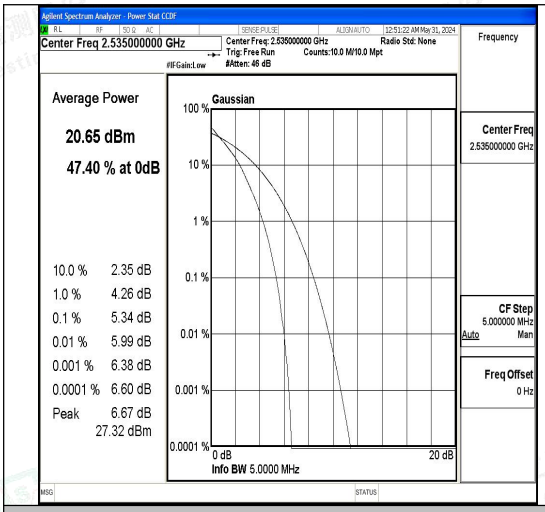
Band7-5MHz-16QAM-20775-25RB#0-PASS



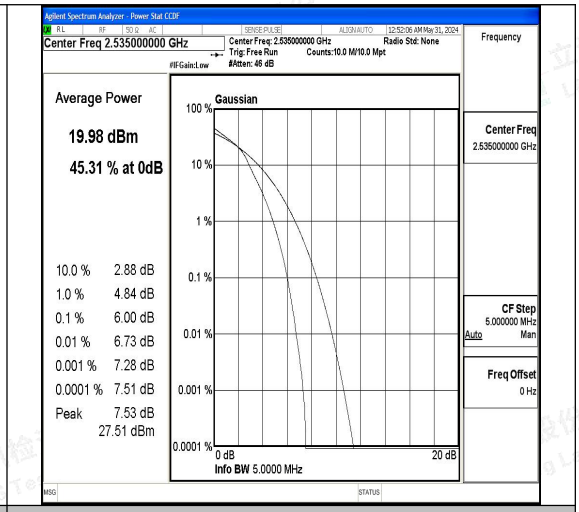
Band7-5MHz-QPSK-21100-1RB#0-PASS



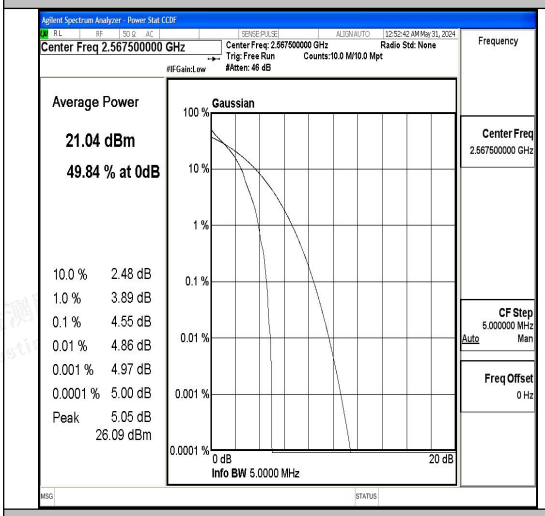
Band7-5MHz-16QAM-21100-1RB#0-PASS



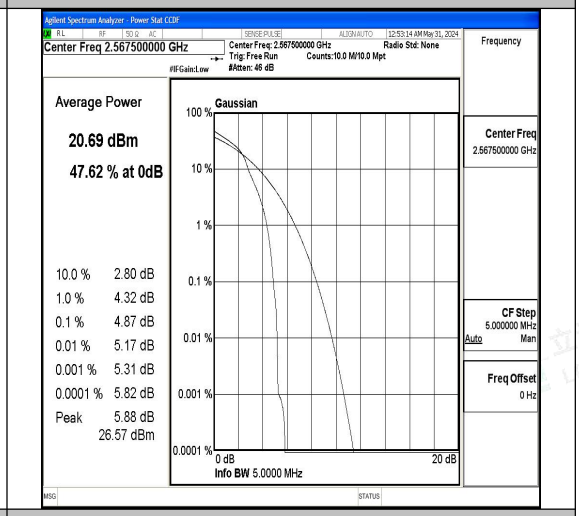
Band7-5MHz-QPSK-21100-25RB#0-PASS



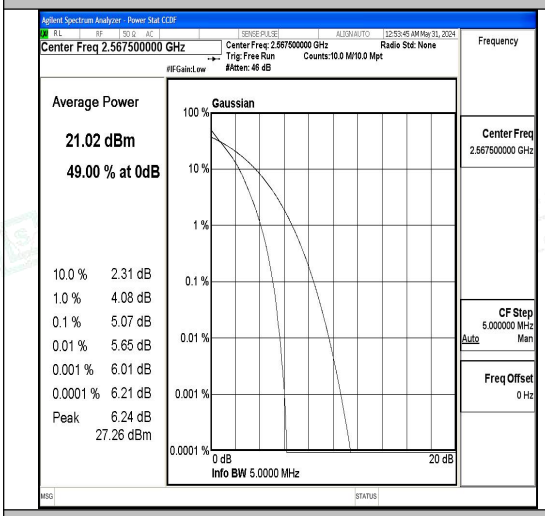
Band7-5MHz-16QAM-21100-25RB#0-PASS



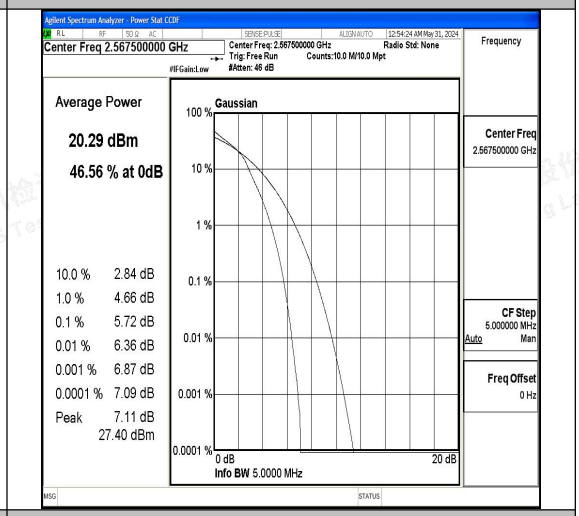
Band7-5MHz-QPSK-21425-1RB#0-PASS



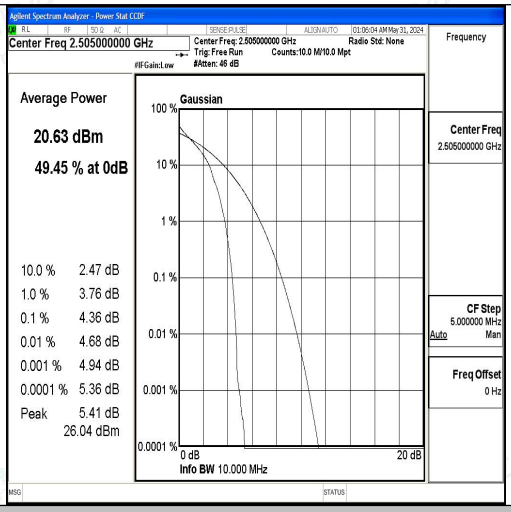
Band7-5MHz-16QAM-21425-1RB#0-PASS



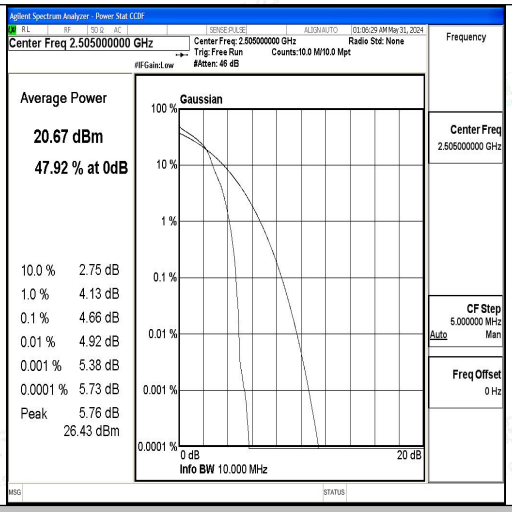
Band7-5MHz-QPSK-21425-25RB#0-PASS



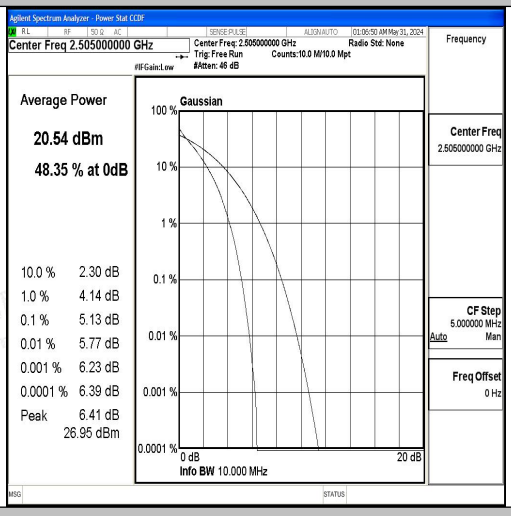
Band7-5MHz-16QAM-21425-25RB#0-PASS



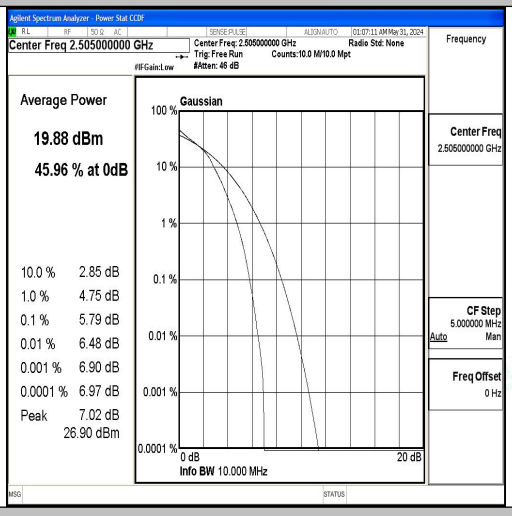
Band7-10MHz-QPSK-20800-1RB#0-PASS



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



Band7-10MHz-QPSK-20800-50RB#0-PASS



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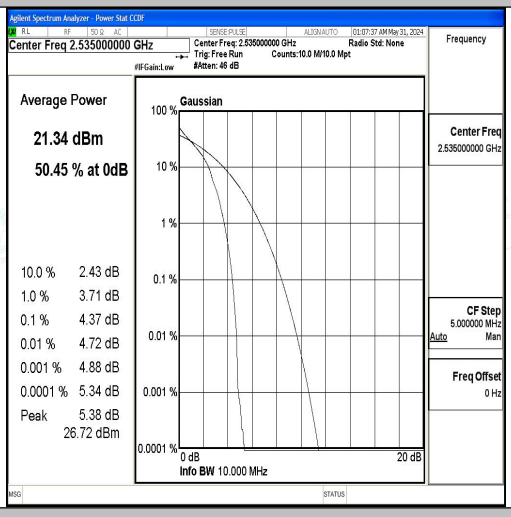

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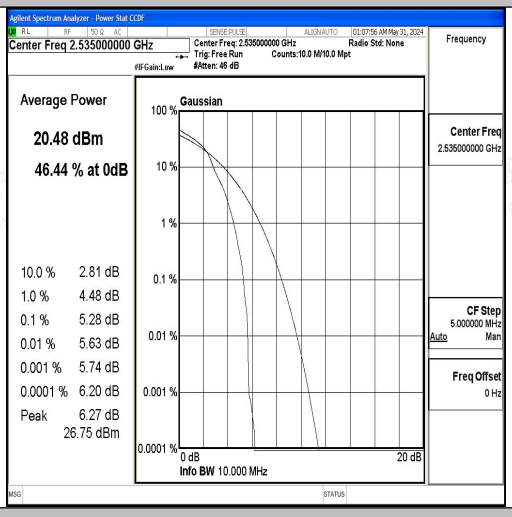

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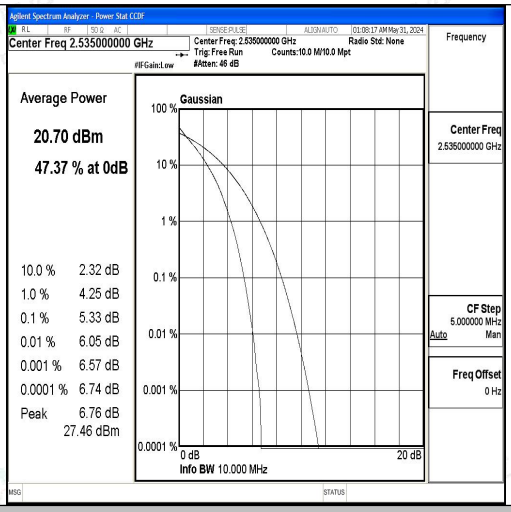

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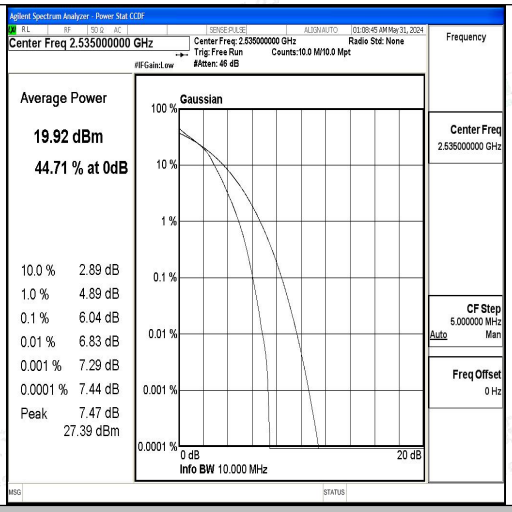

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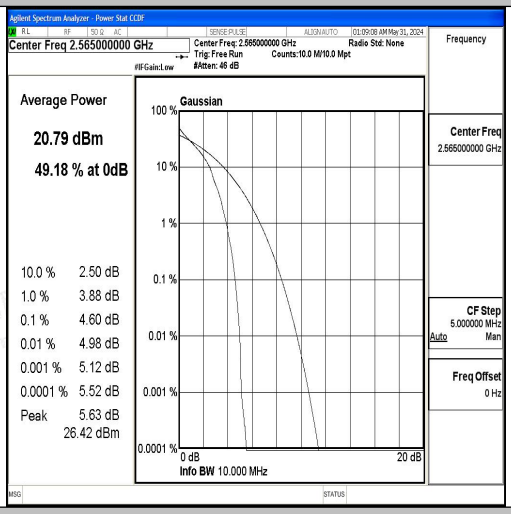

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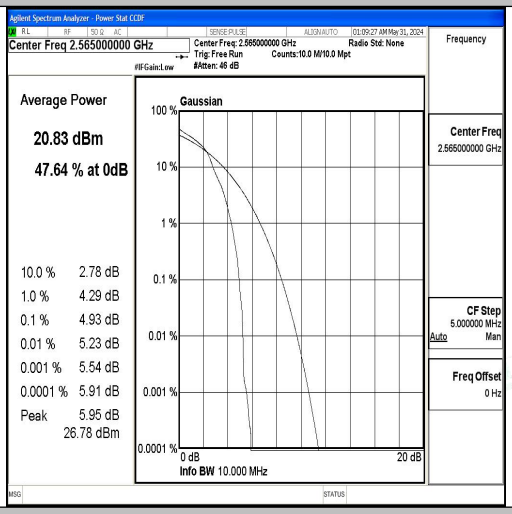

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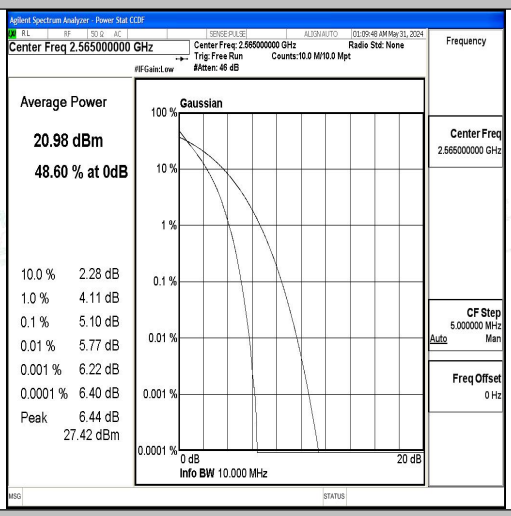

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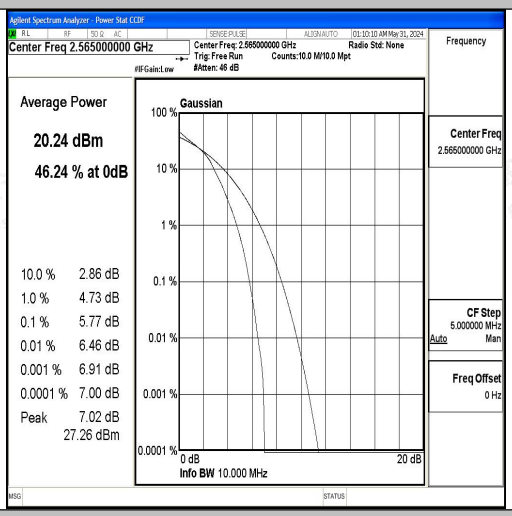

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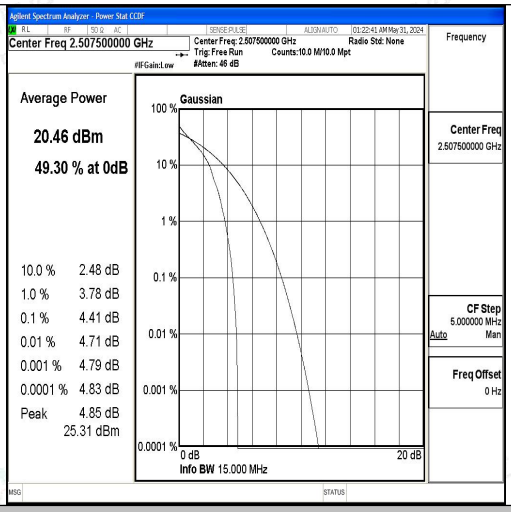

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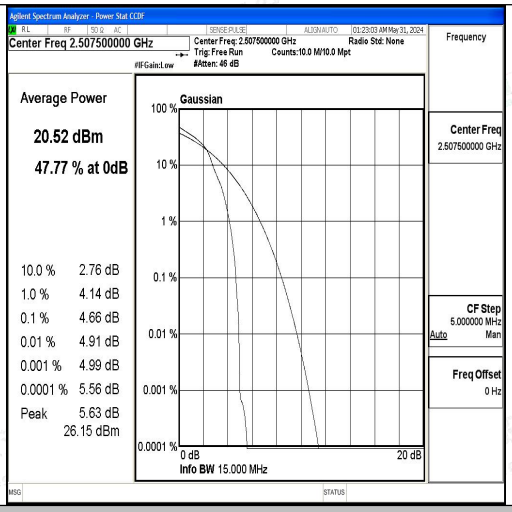

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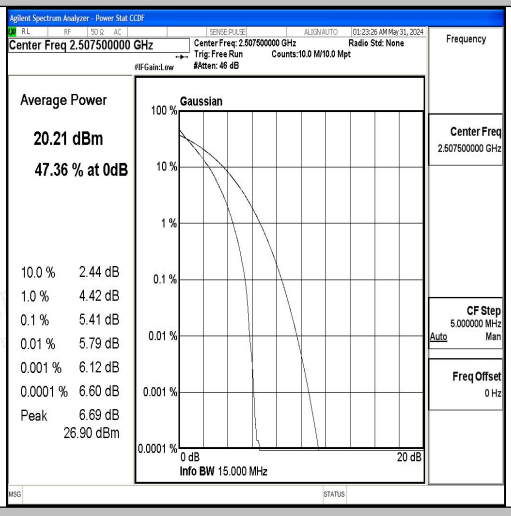

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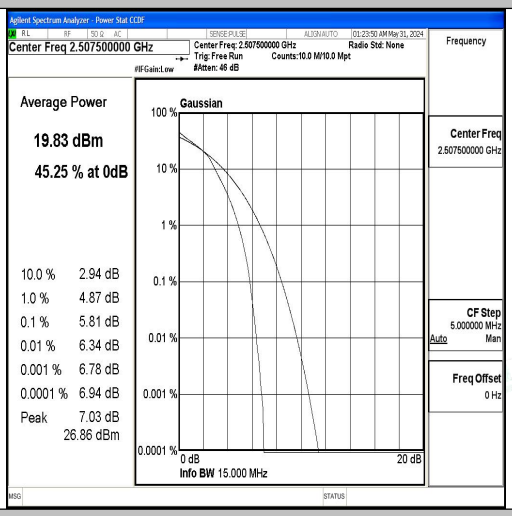
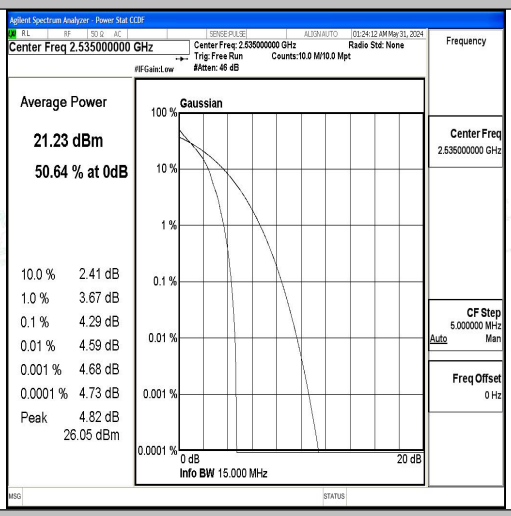
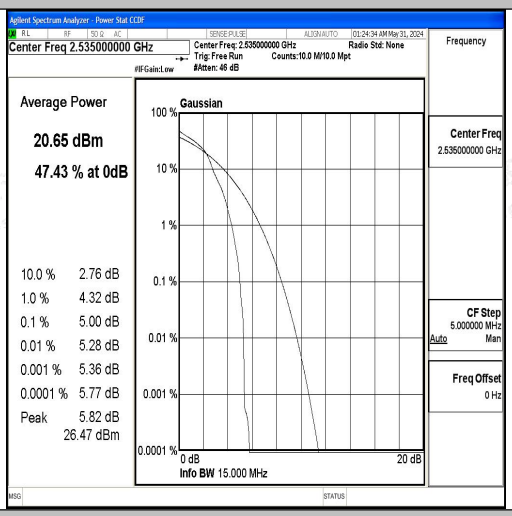


Band7-15MHz-16QAM-20825-75RB#0-PASS



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



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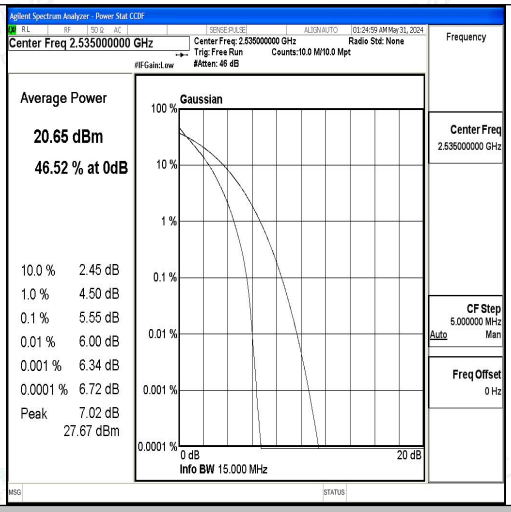

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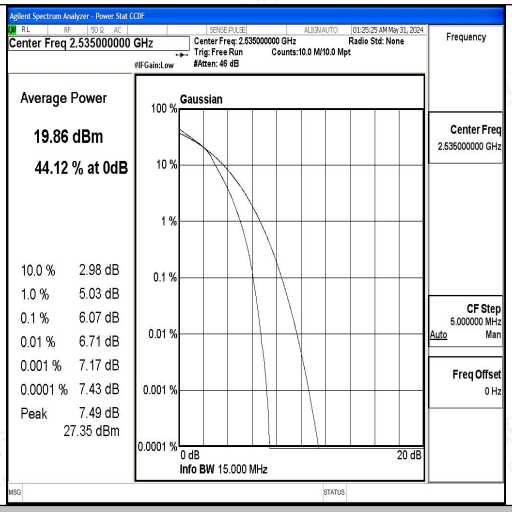

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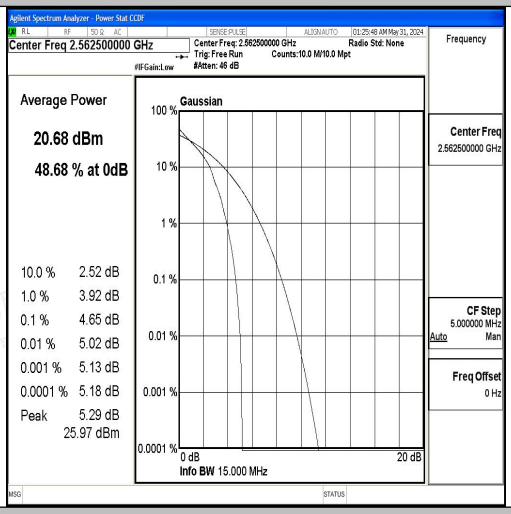
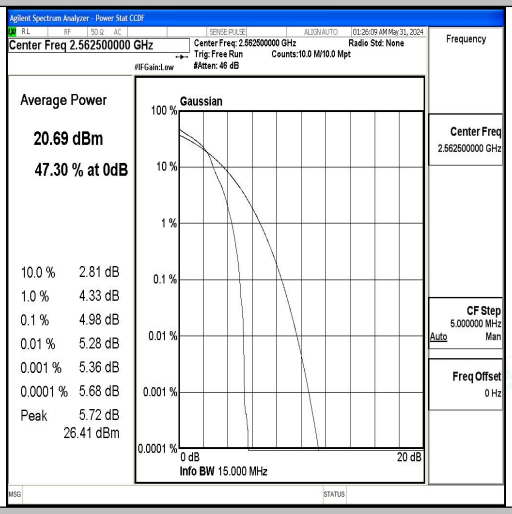


Band7-15MHz-QPSK-21375-1RB#0-PASS



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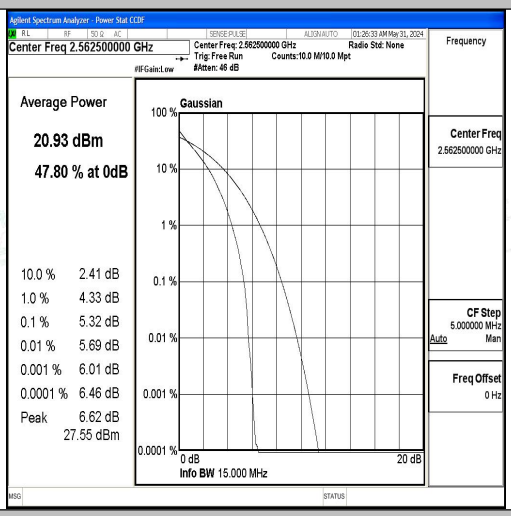

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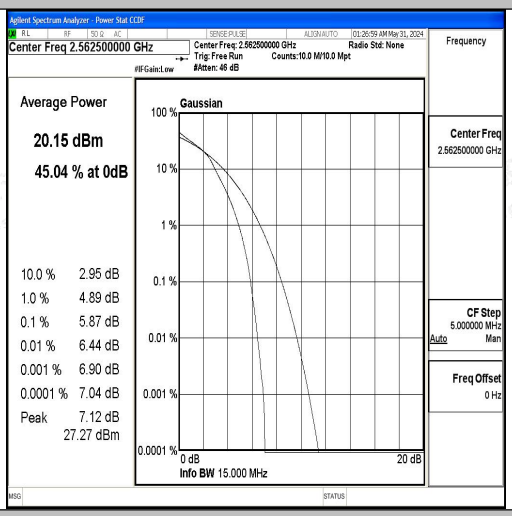

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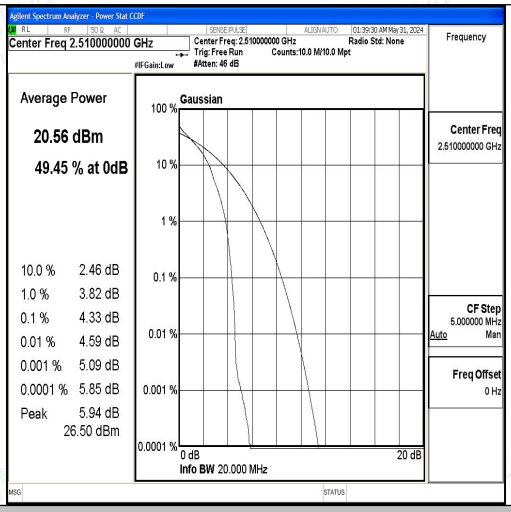
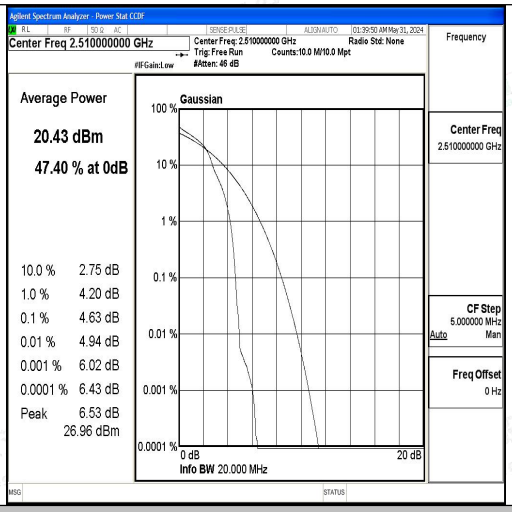


Band7-20MHz-QPSK-20850-1RB#0-PASS



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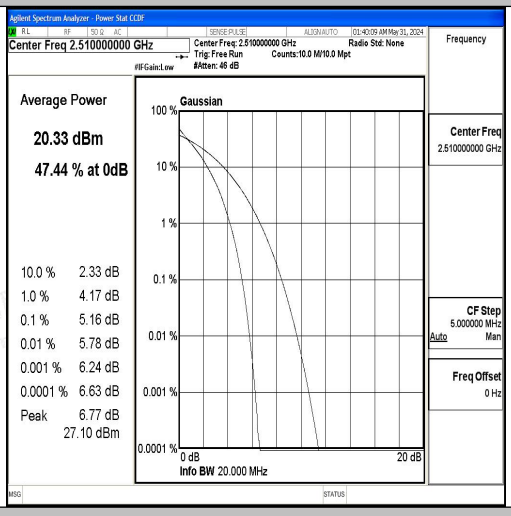

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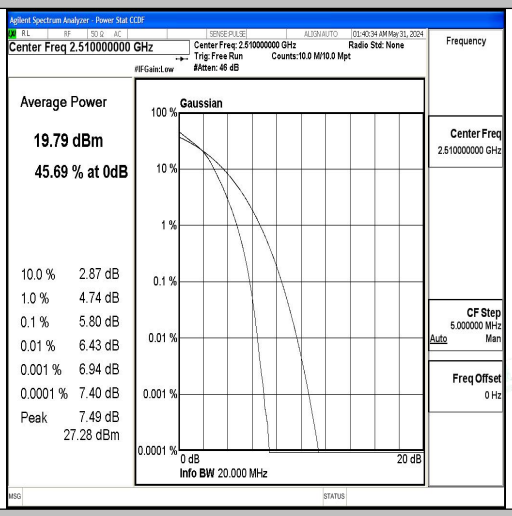

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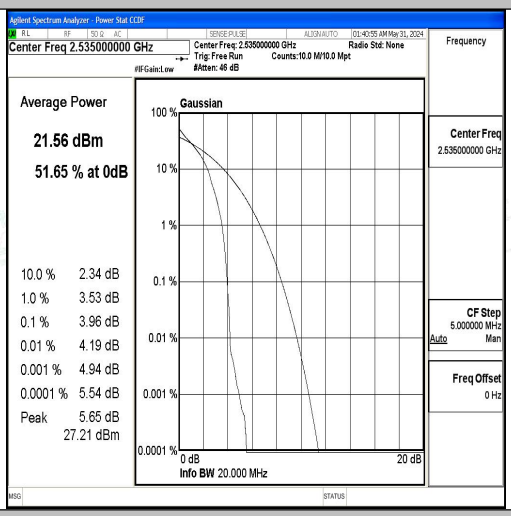
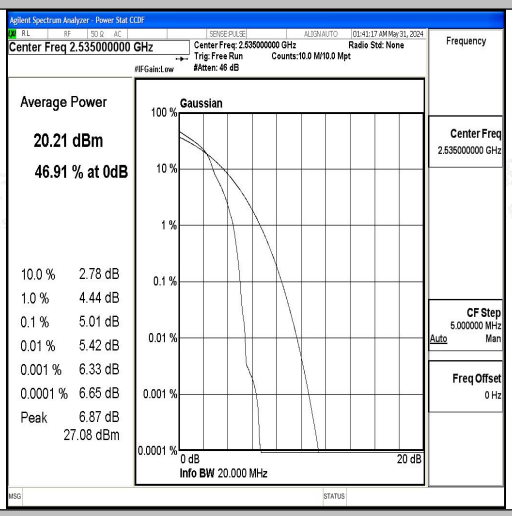


Band7-20MHz-QPSK-21100-1RB#0-PASS



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