Appendix G: Test Data for E-UTRA Band 5

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

G.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.15	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.10	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.40	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.27	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.18	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.08	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.30	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.08	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.29	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.07	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.30	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.08	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.27	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.26	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.21	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.98	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.26	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.21	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.10	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.99	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.23	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.06	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.22	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.05	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.25	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.06	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.17	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.01	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.02	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.86	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.04	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.93	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.95	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.76	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.15	PASS

Band5	1.4MHz	16QAM	20643	3RB#0	21.88	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.14	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.89	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.14	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.86	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.02	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.02	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.25	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.25	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.27	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.26	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.25	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.21	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.22	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.26	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.24	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.27	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.29	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.25	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.19	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.22	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.20	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.13	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.23	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.05	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.21	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.97	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.12	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.11	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.15	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.14	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.13	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.16	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.16	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.07	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.11	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.89	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.12	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.92	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.06	PASS

Band5	3MHz	16QAM	20635	1RB#14	21.86	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.12	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.11	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.12	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.12	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.10	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.10	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.10	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.04	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.22	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.12	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.32	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.27	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.20	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.11	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.28	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.21	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.22	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.22	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.26	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.20	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.28	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.29	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.09	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.15	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.26	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.30	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.06	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.13	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.18	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.18	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.23	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.17	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.20	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.22	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.20	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.18	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.05	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.72	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.20	PASS

Band5	5MHz	16QAM	20625	1RB#12	22.01	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.01	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.61	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.06	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.15	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.09	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.11	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.10	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.12	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.17	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.15	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.88	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.99	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.35	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.27	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.86	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.93	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.15	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.14	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.37	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.16	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.17	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.20	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.16	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.13	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.22	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.02	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.31	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.10	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.85	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.82	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.96	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.29	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.29	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.19	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.20	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.24	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.03	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.15	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.15	PASS

Band5	10MHz	16QAM	20600	1RB#0	21.94	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.97	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.68	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.56	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.37	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.96	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.98	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.01	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.24	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.12	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.70	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.87	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.01	PASS

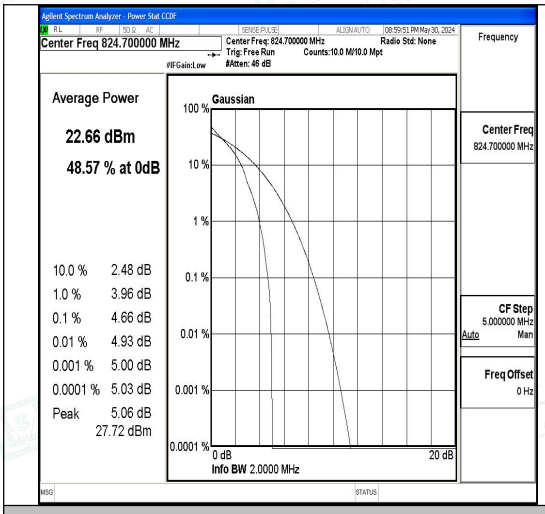
G.2 Peak-to-Average Ratio(CCDF)

Test Result

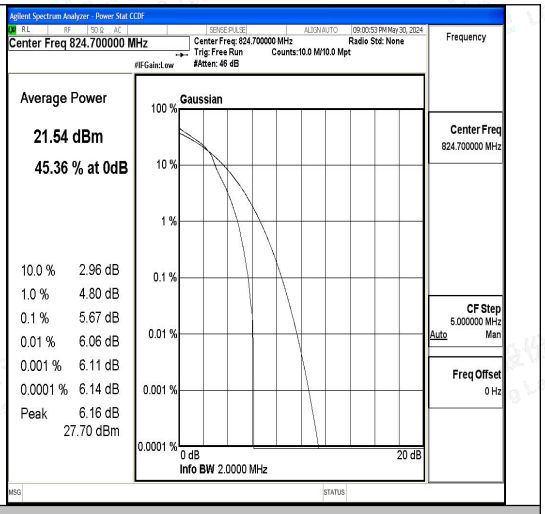
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.66	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.67	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.24	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.04	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.21	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	5.95	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	5.59	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.38	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	4.87	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.02	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	5.35	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.19	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.65	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.51	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.27	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.06	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.16	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	5.89	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.62	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.35	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	4.77	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	5.92	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	5.38	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.24	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.75	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.49	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.15	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.24	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	5.92	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	5.76	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.39	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.31	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.06	13	PASS

Band5	5MHz	QPSK	20625	25RB#0	5.63	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	6.33	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.68	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.63	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.64	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.32	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.99	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.81	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.67	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.90	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.65	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.33	13	PASS

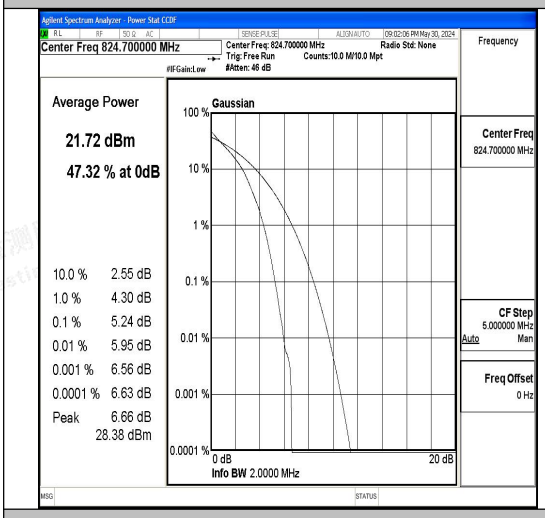
Test Graphs



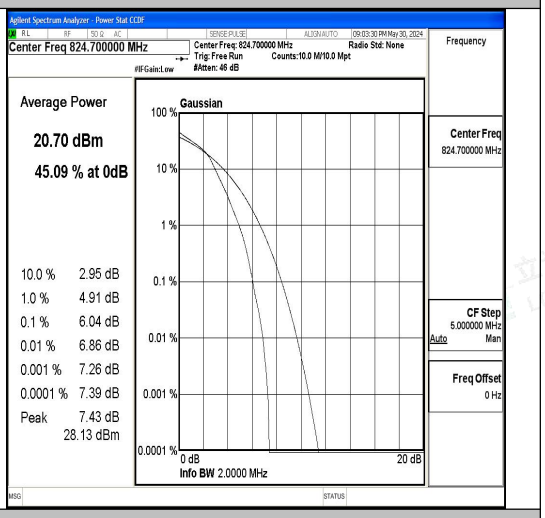
Band5-1.4MHz-QPSK-20407-1RB#0-PASS



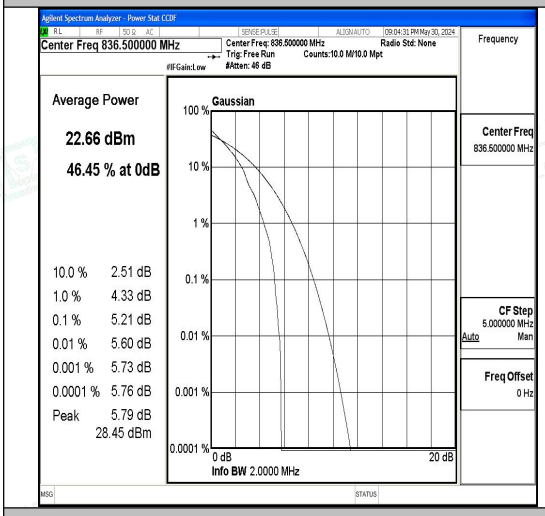
Band5-1.4MHz-16QAM-20407-1RB#0-PASS



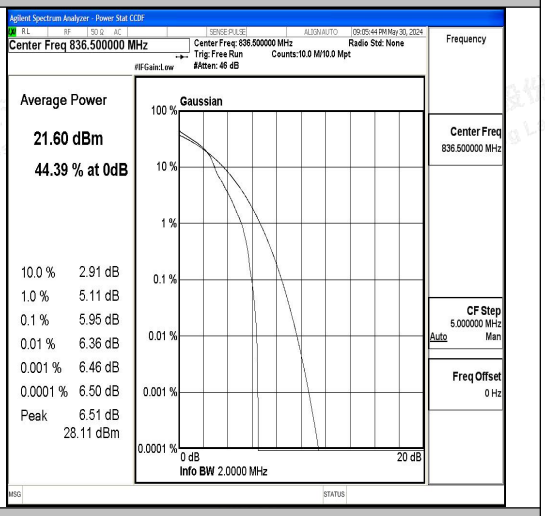
Band5-1.4MHz-QPSK-20407-6RB#0-PASS



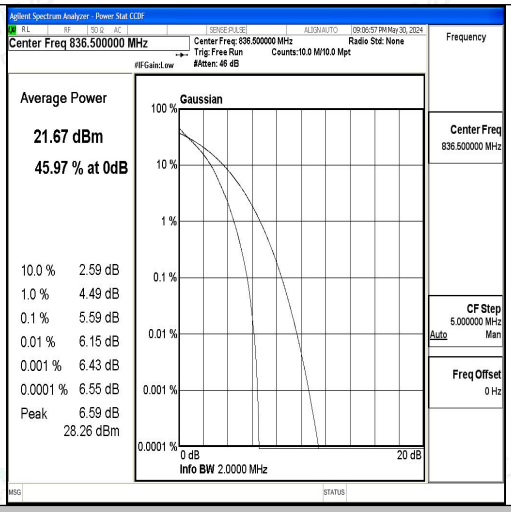
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



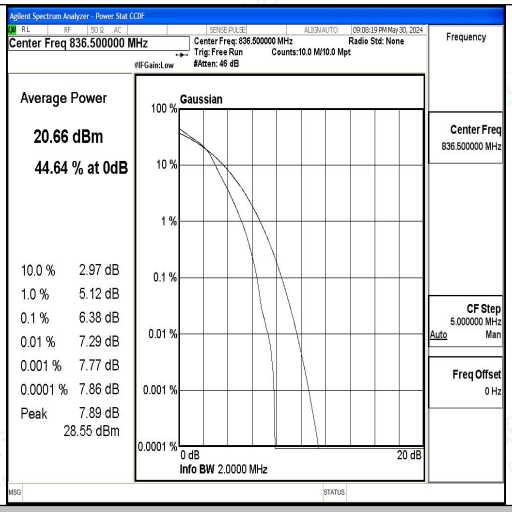
Band5-1.4MHz-QPSK-20525-1RB#0-PASS



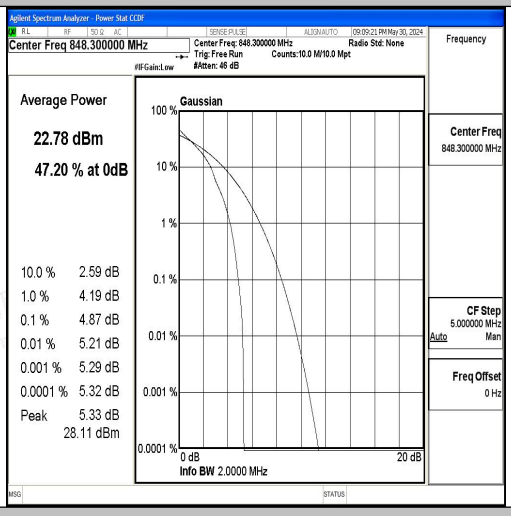
Band5-1.4MHz-16QAM-20525-1RB#0-PASS



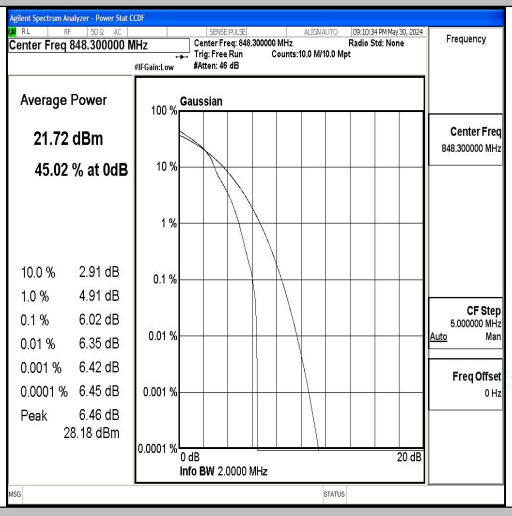
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



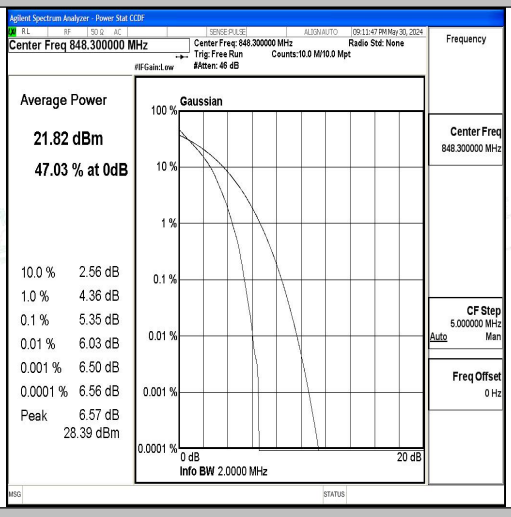
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



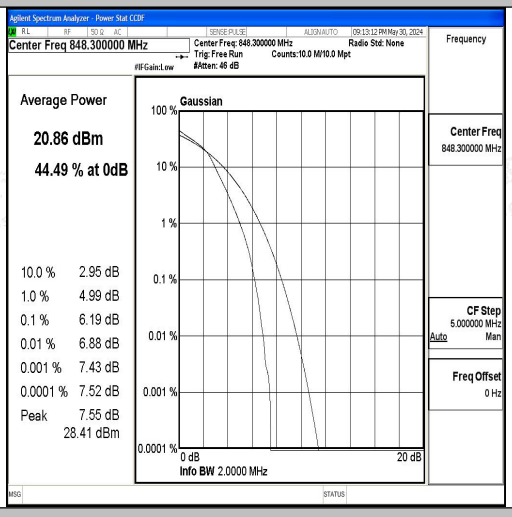
Band5-1.4MHz-QPSK-20643-1RB#0-PASS



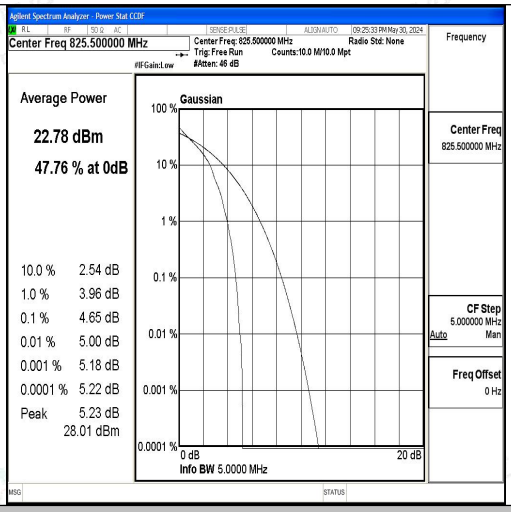
Band5-1.4MHz-16QAM-20643-1RB#0-PASS



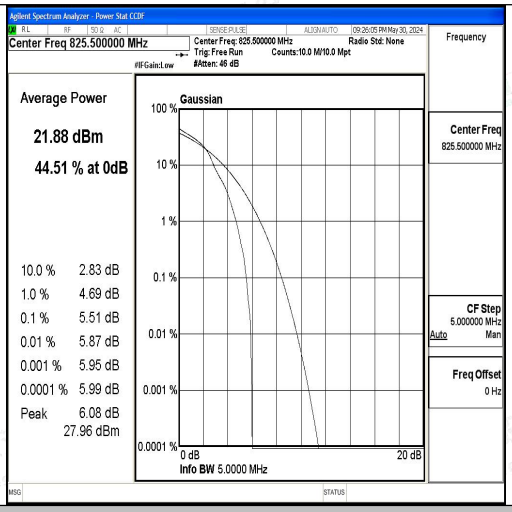
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



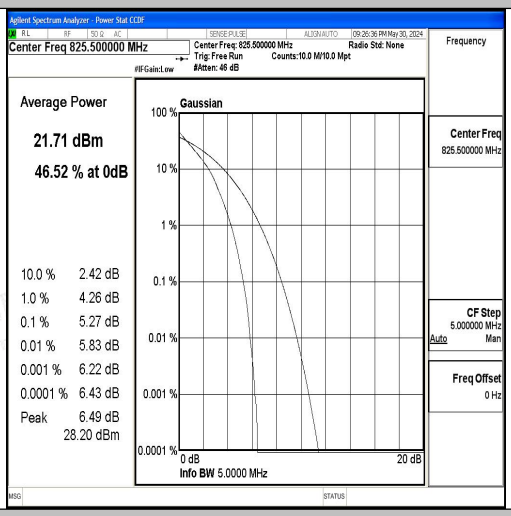
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



Band5-3MHz-QPSK-20415-1RB#0-PASS



Band5-3MHz-16QAM-20415-1RB#0-PASS



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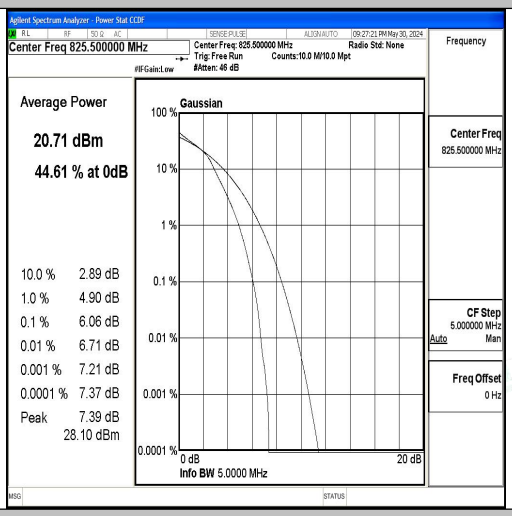

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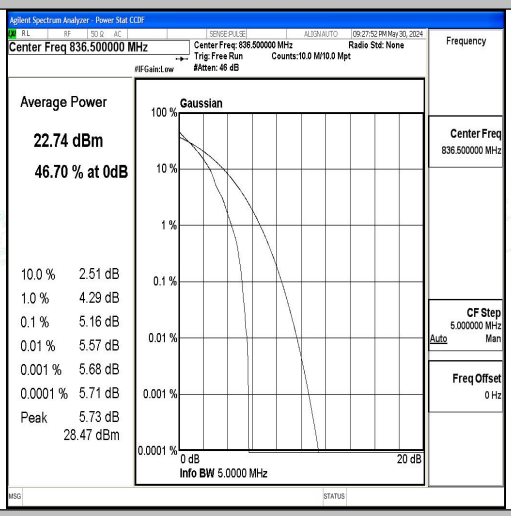

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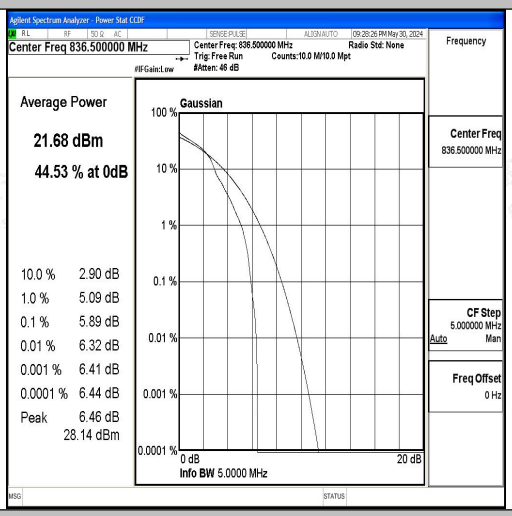

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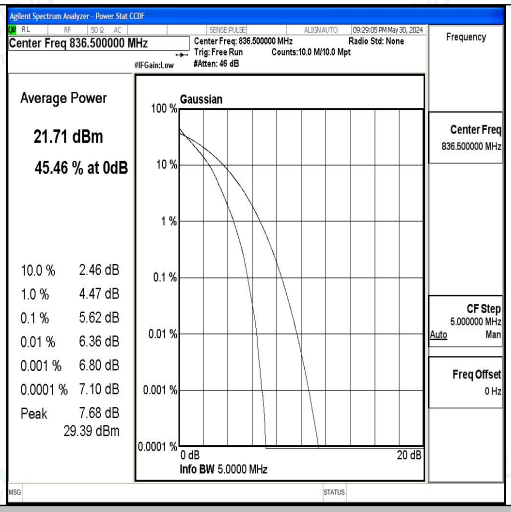

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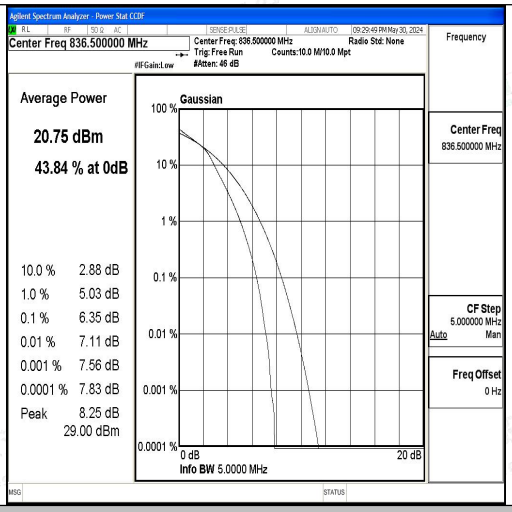

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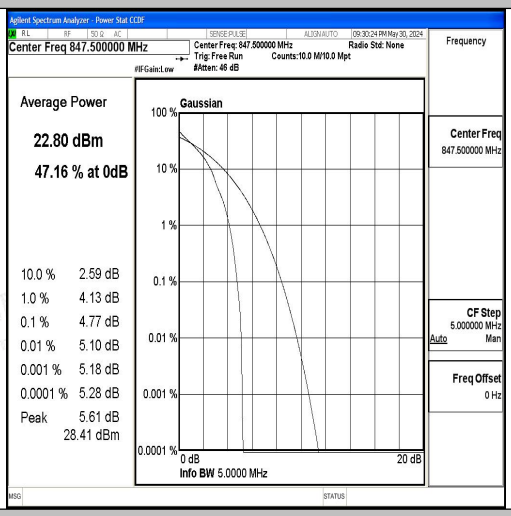

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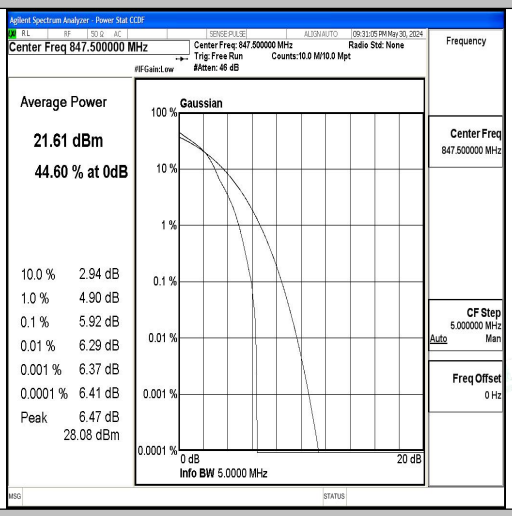

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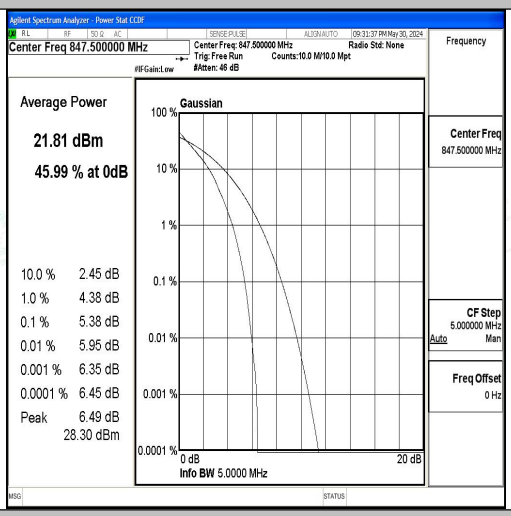

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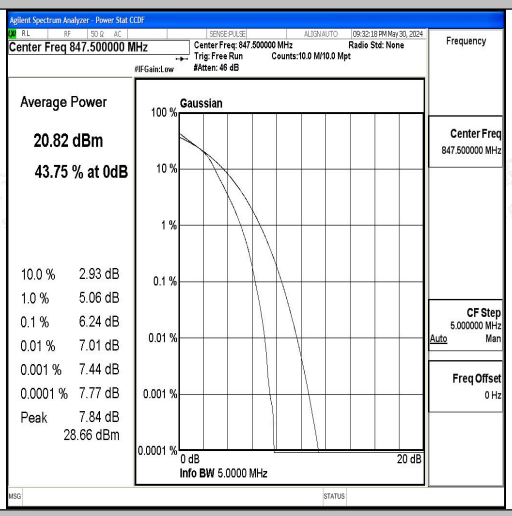

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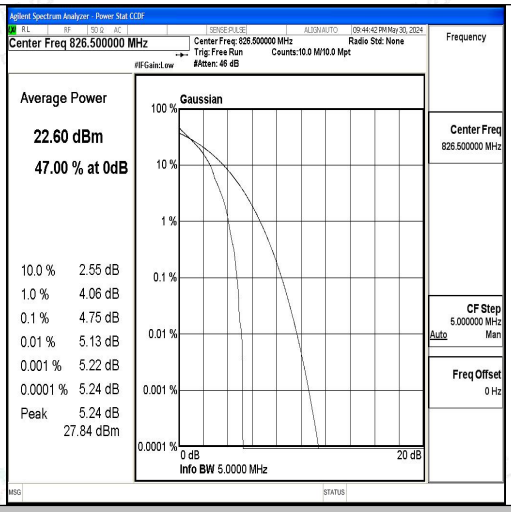

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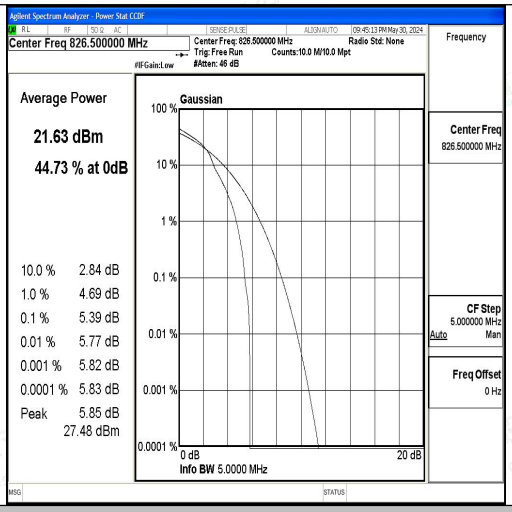

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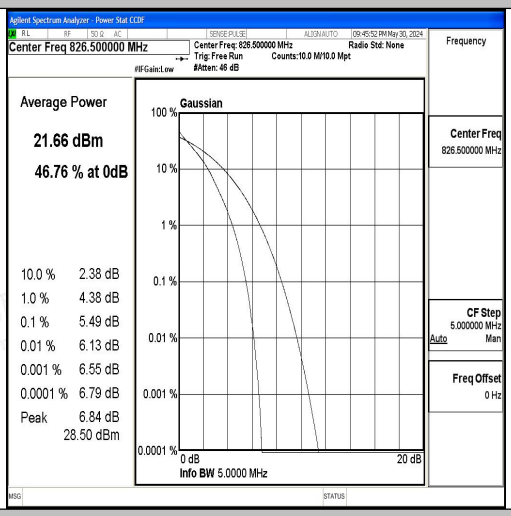

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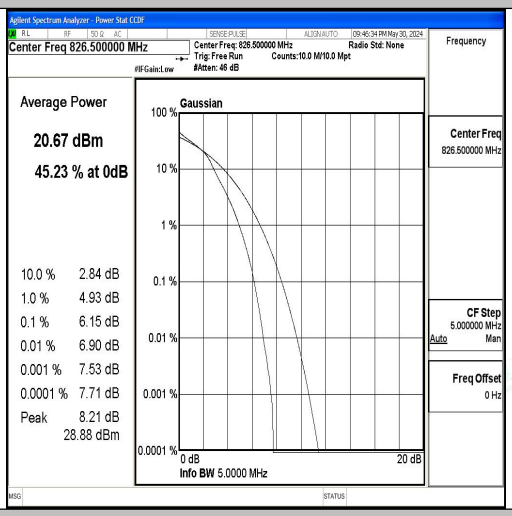

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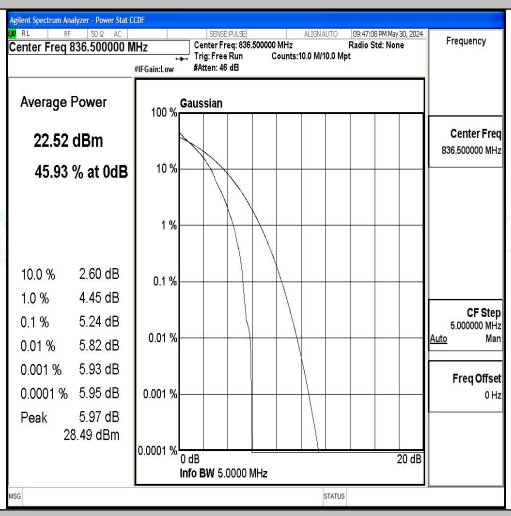

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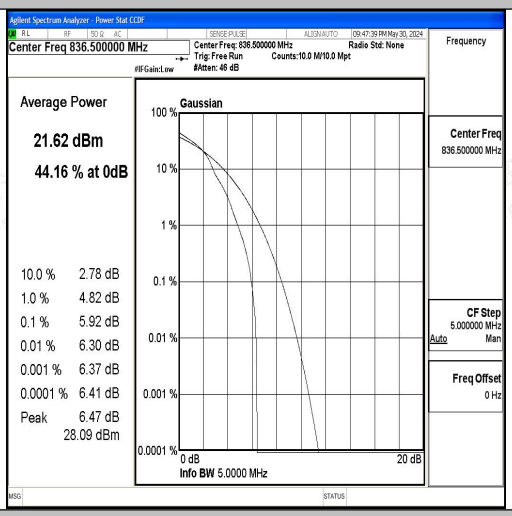

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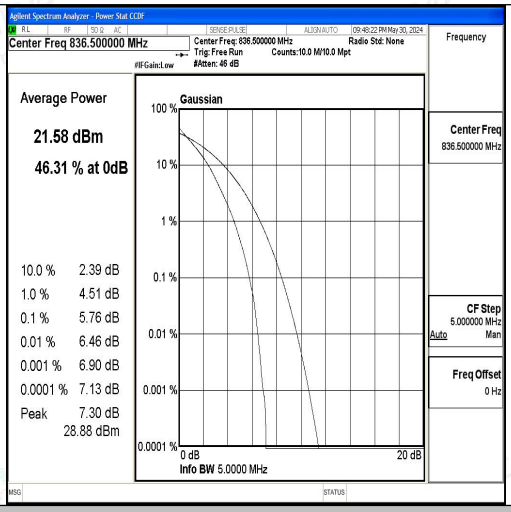

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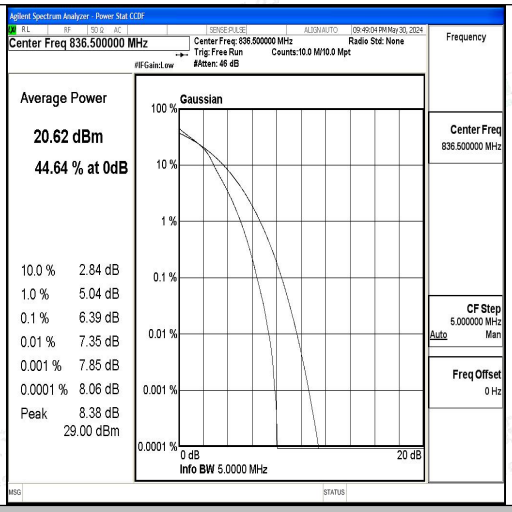

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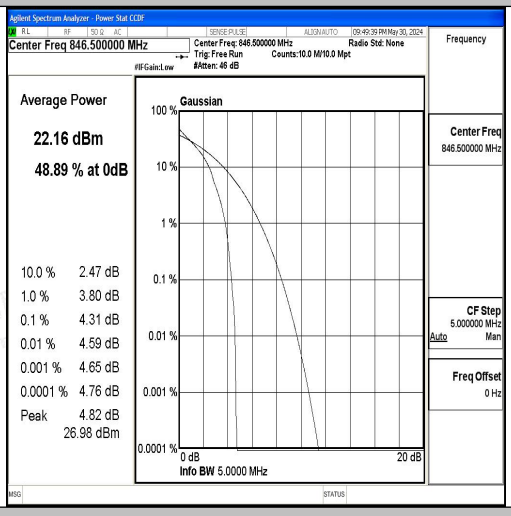

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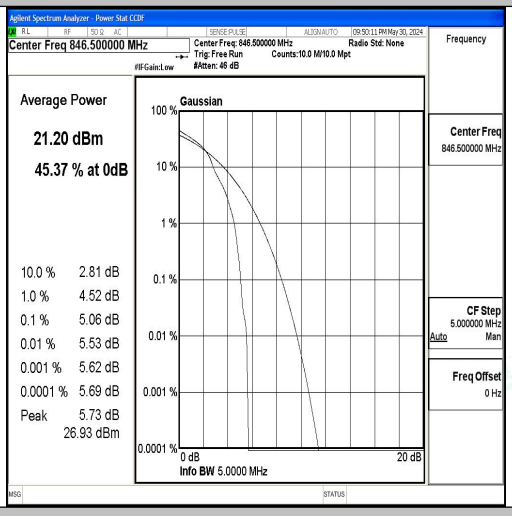

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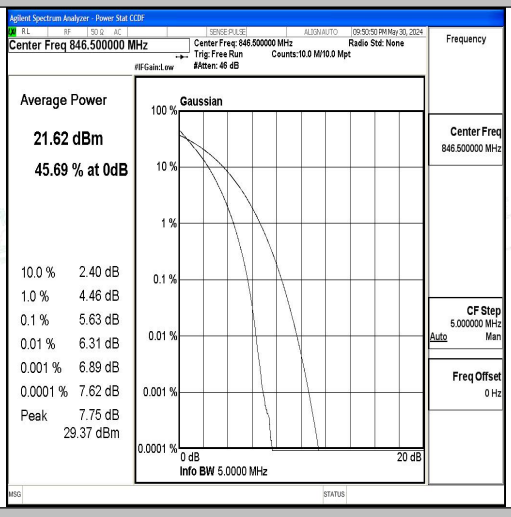

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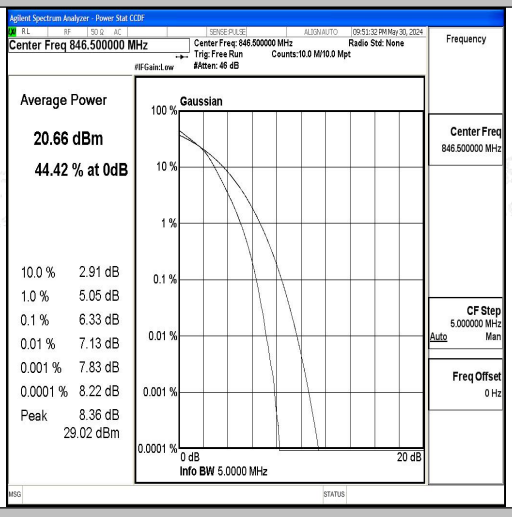

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