

FCC Appendix RF Test Data for LTE band 5

Company : HK EKO ELECTRONICS LIMITED

EUT : GPS Tracker

Model Number : G05

Report No. : CTA26071602203

FCC ID : 2BR3K-GPSTRACK-G05

Reviewed By : Eric Wang

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.88	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.89	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.92	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.74	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.73	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.89	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.82	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.04	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.01	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.84	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.84	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.88	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.89	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.08	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.08	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.16	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.90	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.88	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.96	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	20.75	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.86	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.87	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.85	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.67	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.67	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.70	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.76	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.81	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.12	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.07	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.90	PASS

Band5	1.4MHz	16QAM	20525	3RB#1	21.88	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.99	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.90	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	20.92	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.03	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.06	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.66	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.76	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.84	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	19.81	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.80	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.31	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.24	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.14	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.18	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.35	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.24	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.80	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.03	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.71	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.84	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.74	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.93	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.82	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.81	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.93	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.82	PASS
Band5	3MHz	QPSK	20635	8RB#0	20.73	PASS
Band5	3MHz	QPSK	20635	8RB#4	20.70	PASS
Band5	3MHz	QPSK	20635	8RB#7	20.79	PASS
Band5	3MHz	QPSK	20635	15RB#0	20.73	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.24	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.53	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.50	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.30	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.31	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.50	PASS

Band5	3MHz	16QAM	20415	15RB#0	20.25	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.80	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.09	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.92	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.79	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.78	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.83	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.71	PASS
Band5	3MHz	16QAM	20635	1RB#0	20.74	PASS
Band5	3MHz	16QAM	20635	1RB#8	20.90	PASS
Band5	3MHz	16QAM	20635	1RB#14	20.86	PASS
Band5	3MHz	16QAM	20635	8RB#0	19.84	PASS
Band5	3MHz	16QAM	20635	8RB#4	19.73	PASS
Band5	3MHz	16QAM	20635	8RB#7	19.80	PASS
Band5	3MHz	16QAM	20635	15RB#0	19.66	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.56	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.65	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.94	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.56	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.57	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.74	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.67	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.55	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.09	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.23	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.12	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.15	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.22	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.19	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.88	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.54	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.95	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.47	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.52	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.57	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.53	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.47	PASS

Band5	5MHz	16QAM	20425	1RB#12	21.63	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.85	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.72	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.73	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.91	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.72	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.89	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.51	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.55	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.18	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.19	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.25	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.09	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.90	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.54	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.98	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.60	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.56	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.59	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.76	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.16	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.29	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.25	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.28	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.30	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.23	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.28	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.83	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.17	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.88	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.24	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.25	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.09	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.18	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.30	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.81	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.96	PASS

Band5	10MHz	QPSK	20600	25RB#0	21.85	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.90	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.73	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.79	PASS

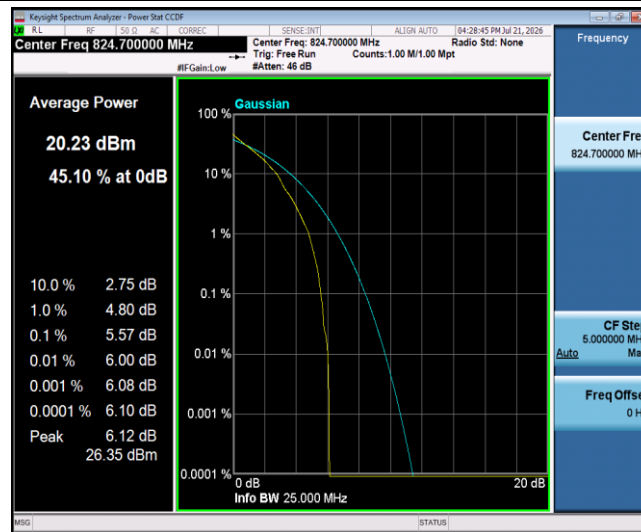
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

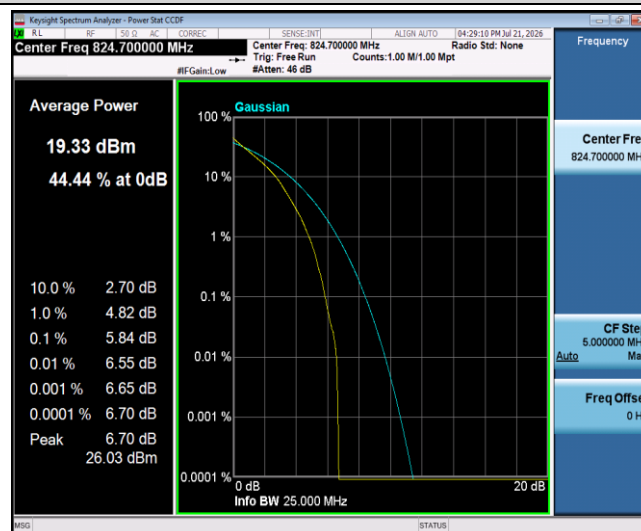
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	5.57	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.84	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	5.67	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	6.02	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	5.77	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	6.08	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	6.30	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.70	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	6.16	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	6.73	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	6.58	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	6.66	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	5.53	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	6.06	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	5.27	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	5.86	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	6.00	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	6.17	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	6.24	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.80	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	6.09	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	6.61	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	6.81	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	6.92	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	5.71	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.93	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	5.16	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	6.00	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	5.95	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	5.97	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	6.30	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.68	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	6.08	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	6.58	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	6.30	13	PASS

Band5	5MHz	16QAM	20625	25RB#0	6.62	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	5.56	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.90	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	5.25	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.97	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	5.53	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.98	13	PASS

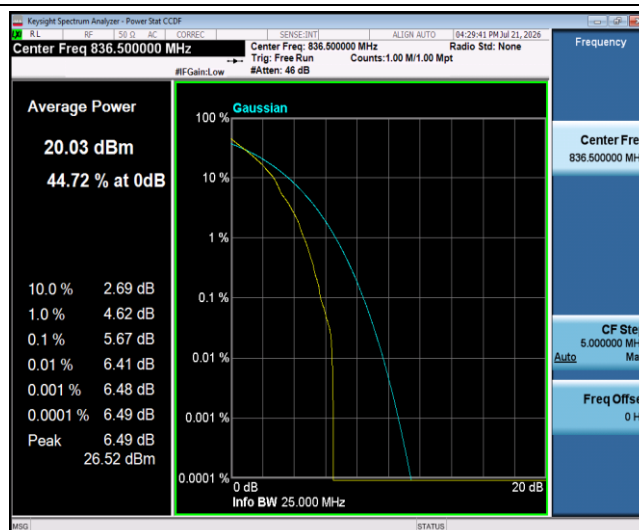
Test Graphs



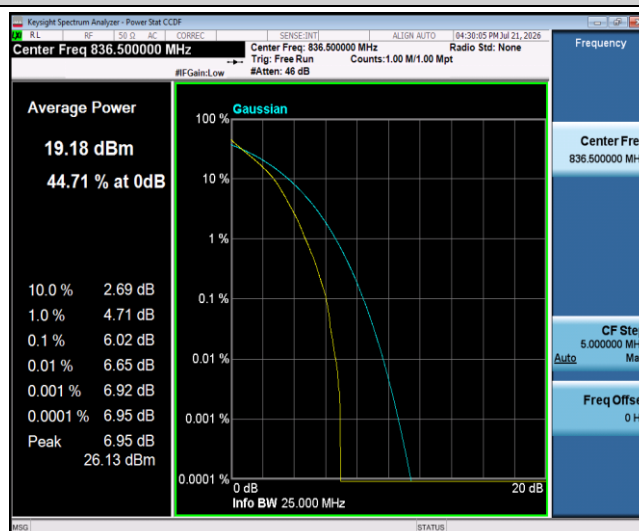
Band5-1.4MHz-QPSK-20407-1RB#0



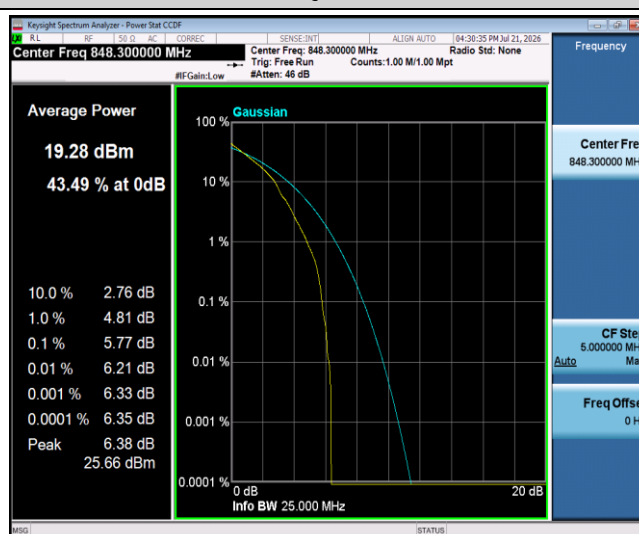
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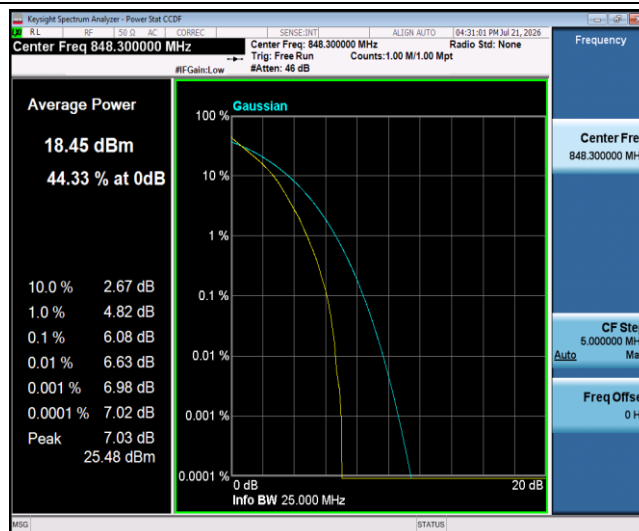
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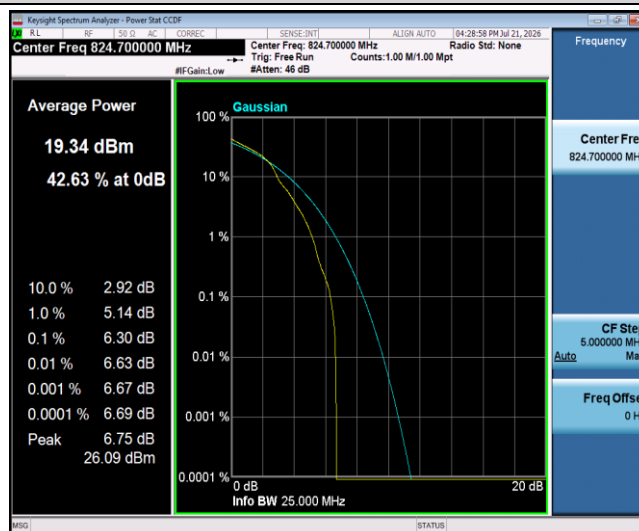
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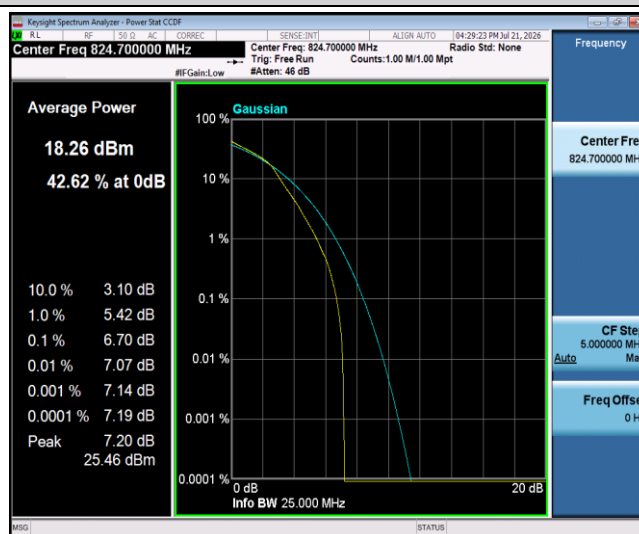
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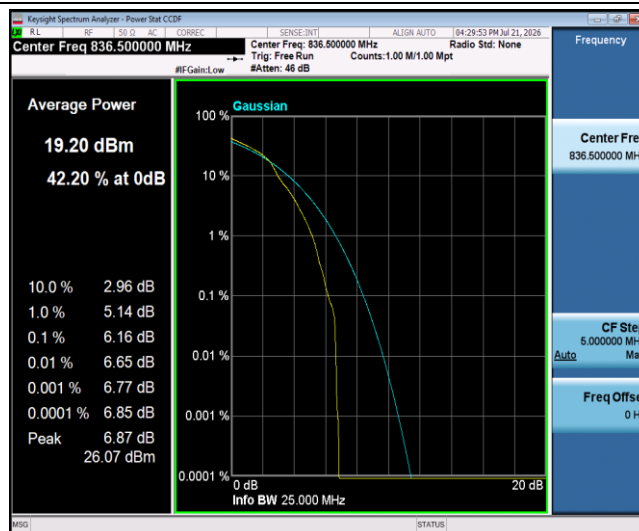
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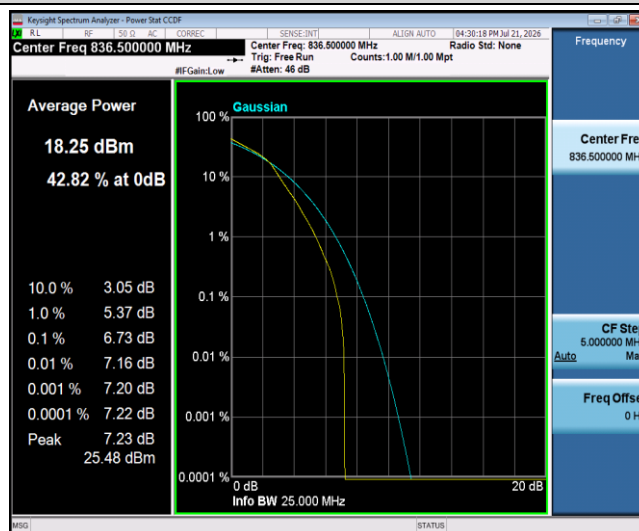
Band5-1.4MHz-16QAM-20407-1RB#0



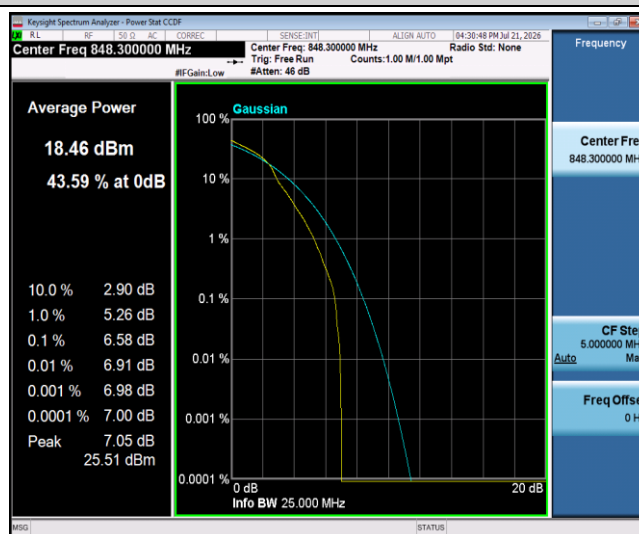
Band5-1.4MHz-16QAM-20407-6RB#0



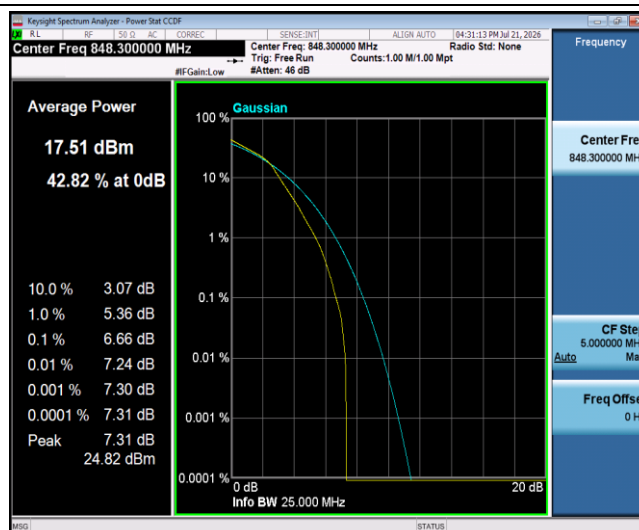
Band5-1.4MHz-16QAM-20525-1RB#0



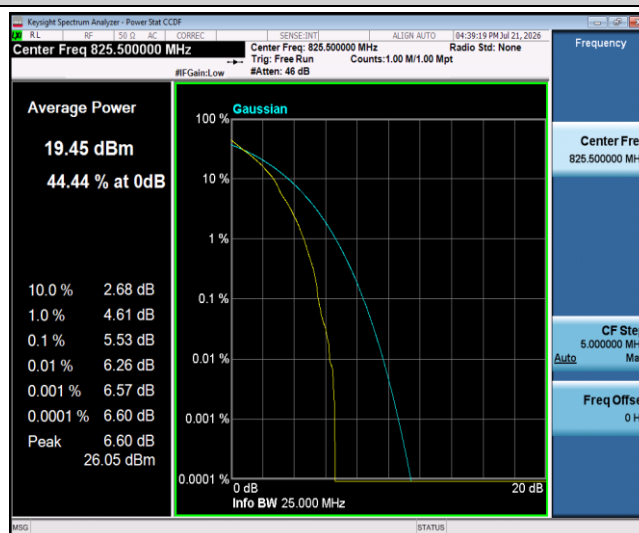
Band5-1.4MHz-16QAM-20525-6RB#0



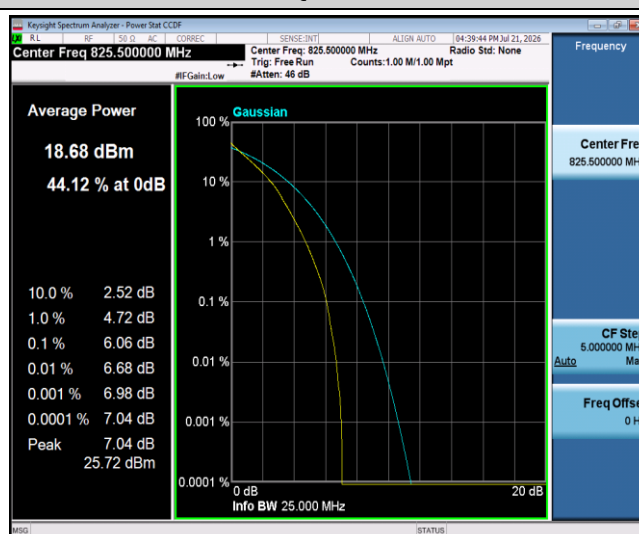
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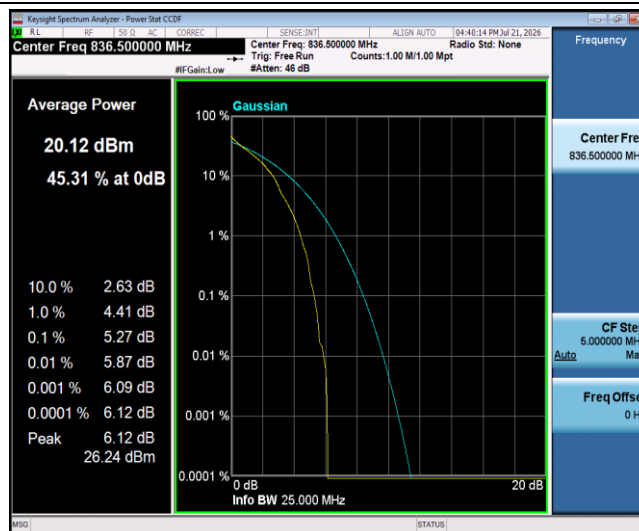
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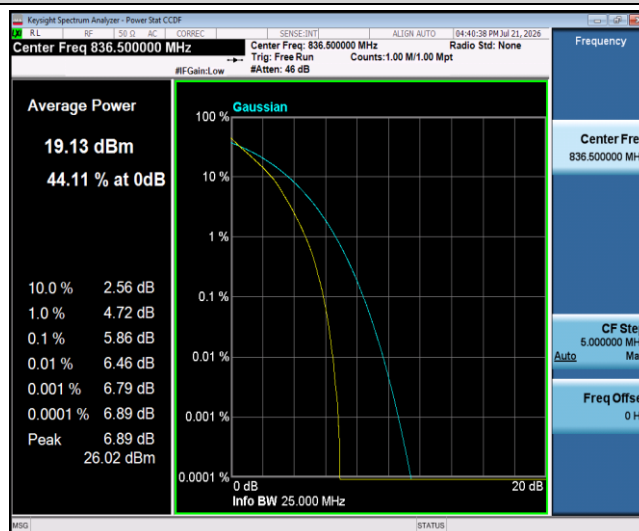
Band5-3MHz-QPSK-20415-1RB#0



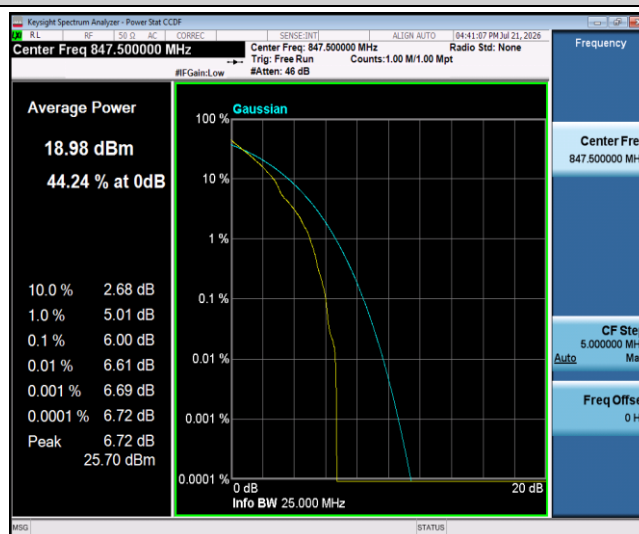
Band5-3MHz-QPSK-20415-15RB#0



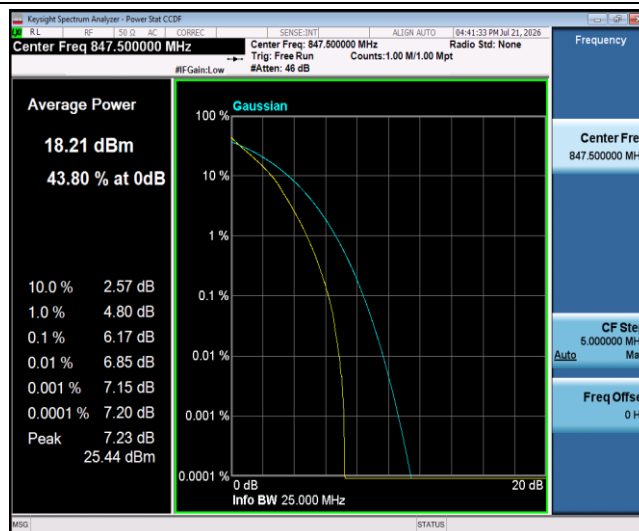
Band5-3MHz-QPSK-20525-1RB#0



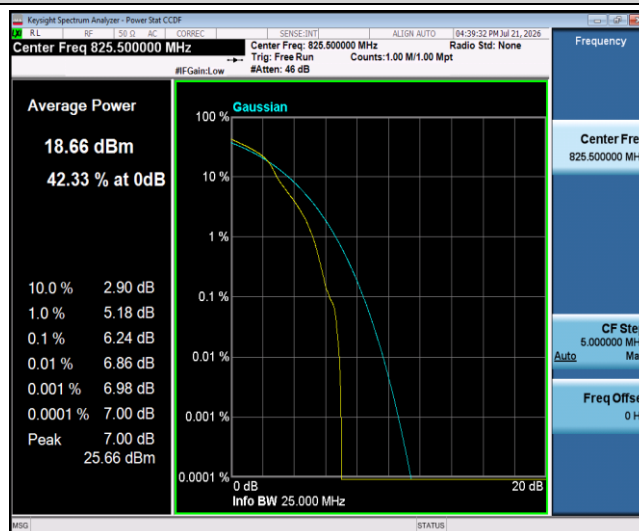
Band5-3MHz-QPSK-20525-15RB#0



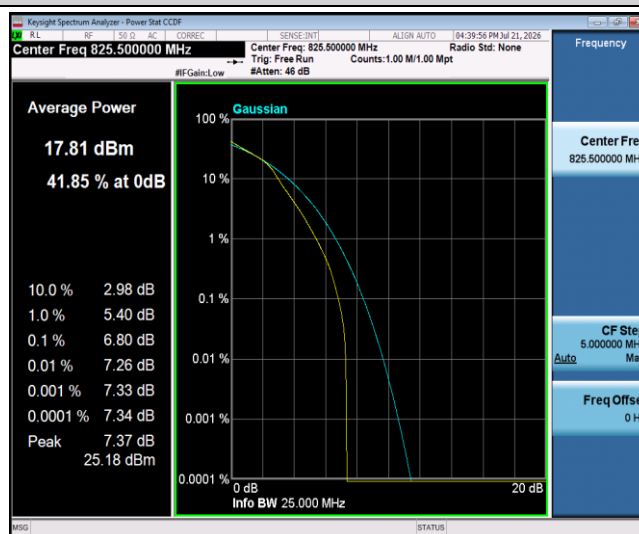
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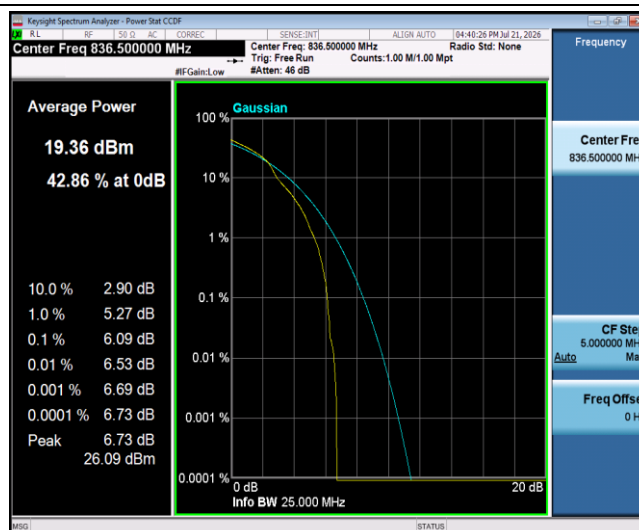
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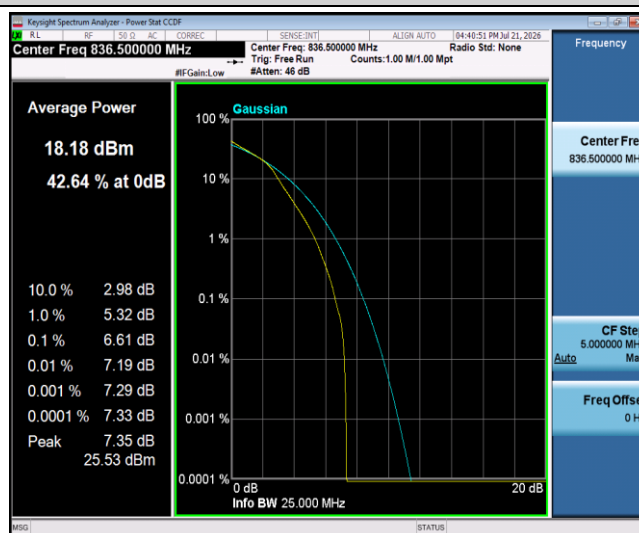
Band5-3MHz-16QAM-20415-1RB#0



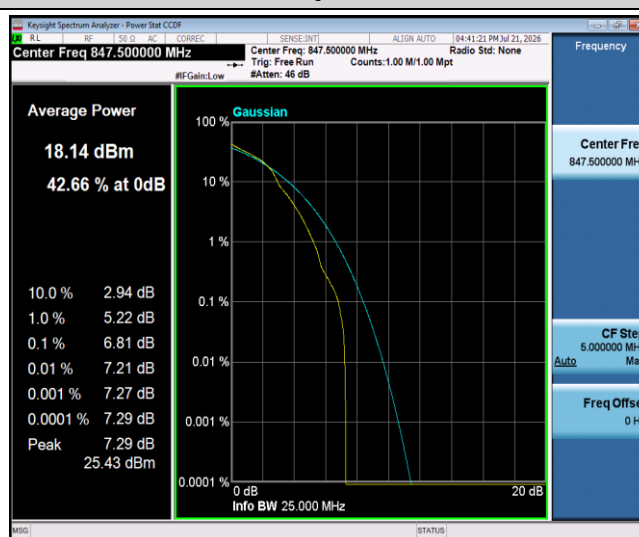
Band5-3MHz-16QAM-20415-15RB#0



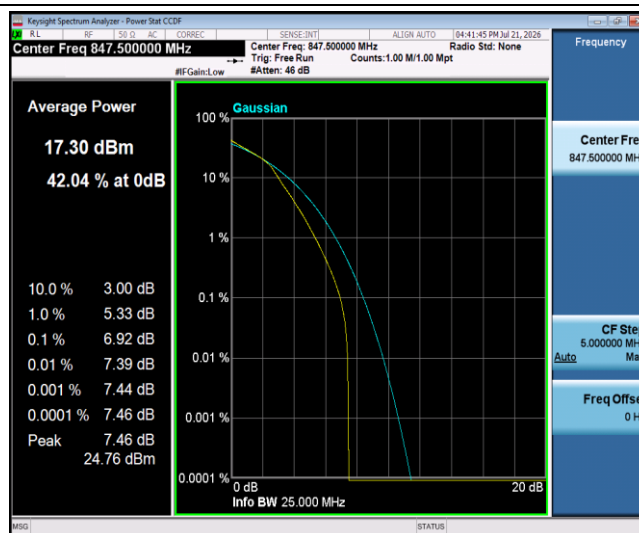
Band5-3MHz-16QAM-20525-1RB#0



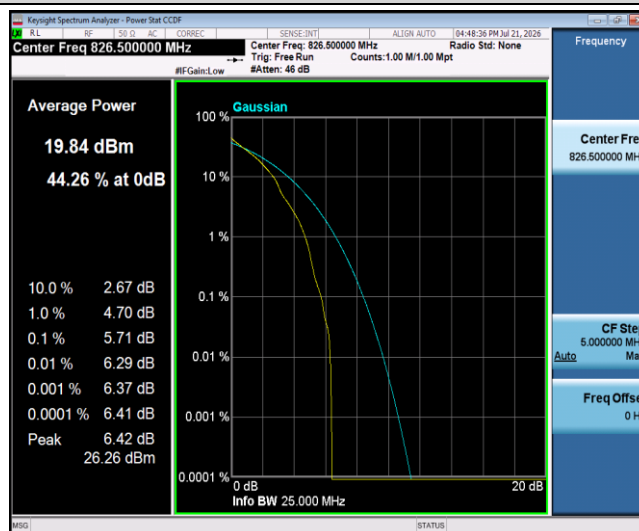
Band5-3MHz-16QAM-20525-15RB#0



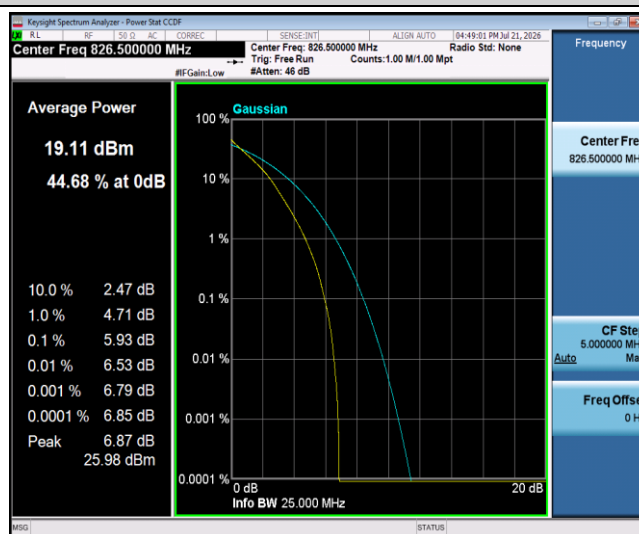
Band5-3MHz-16QAM-20635-1RB#0



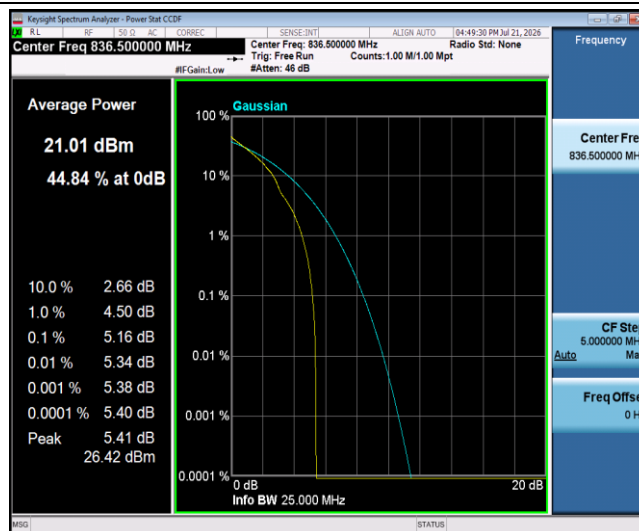
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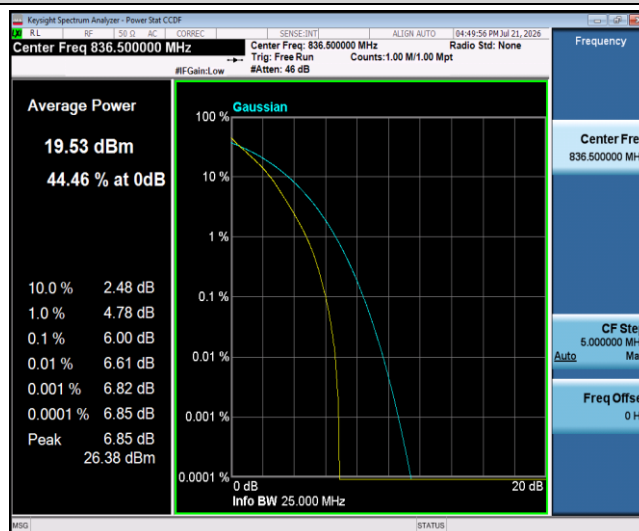
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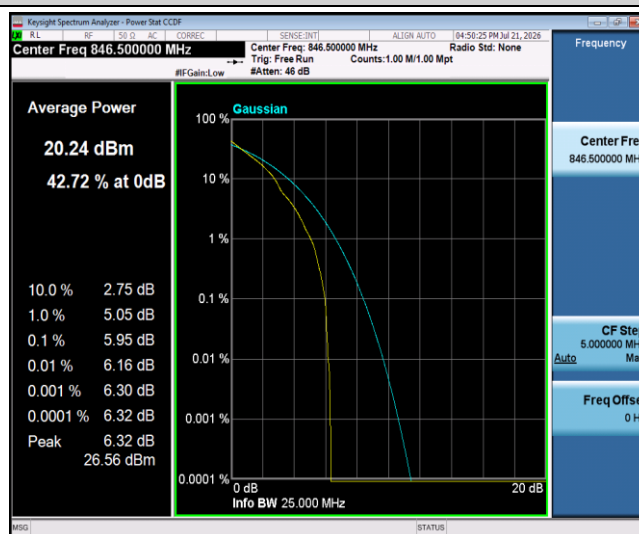
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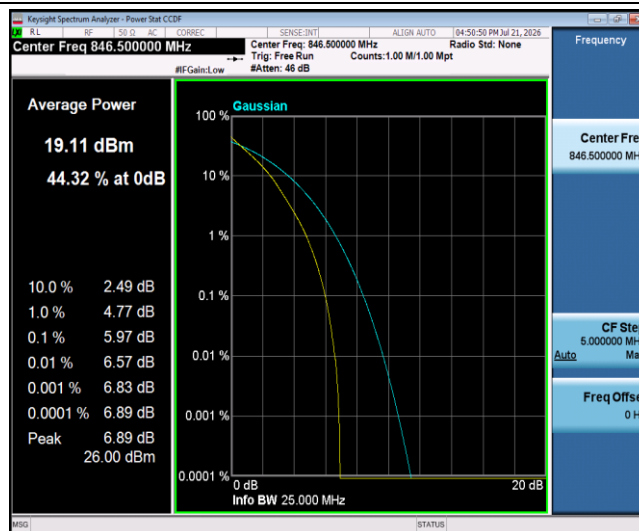
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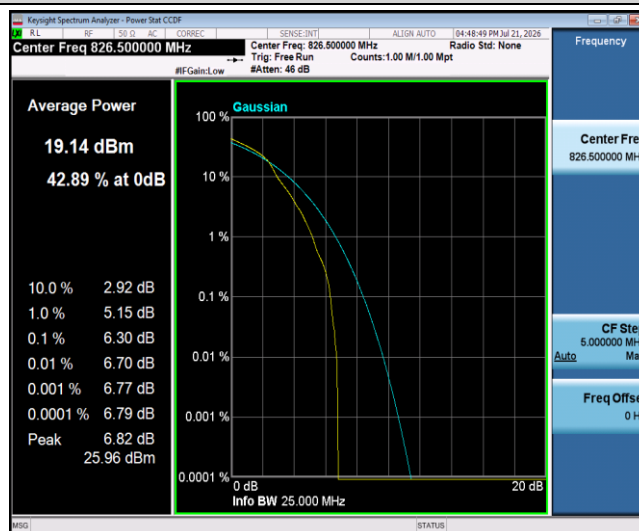
Band5-5MHz-QPSK-20525-25RB#0



Band5-5MHz-QPSK-20625-1RB#0



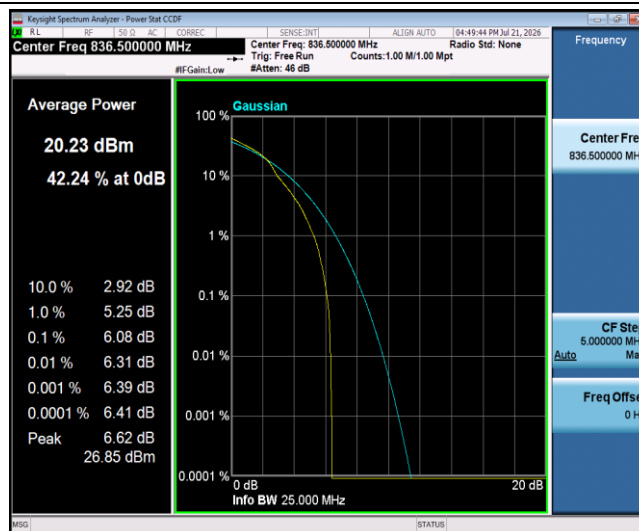
Band5-5MHz-QPSK-20625-25RB#0



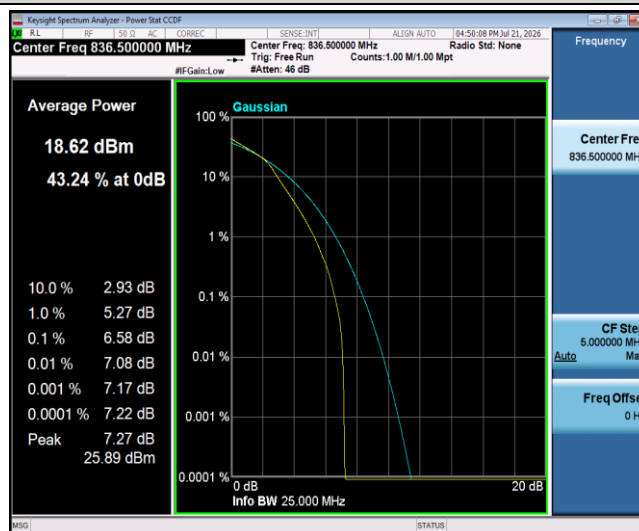
Band5-5MHz-16QAM-20425-1RB#0



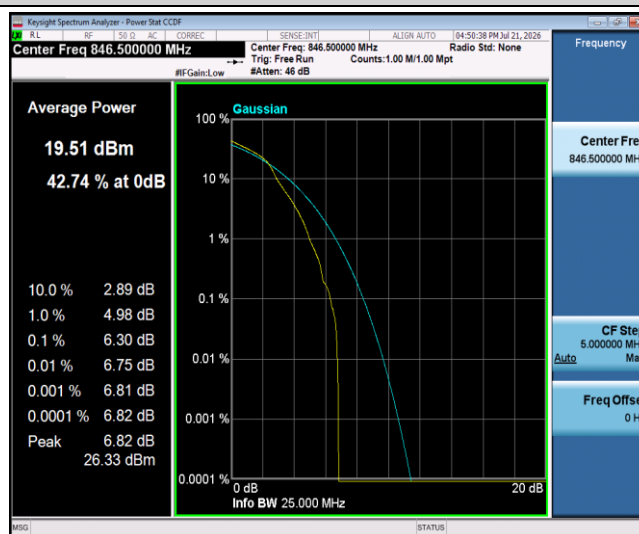
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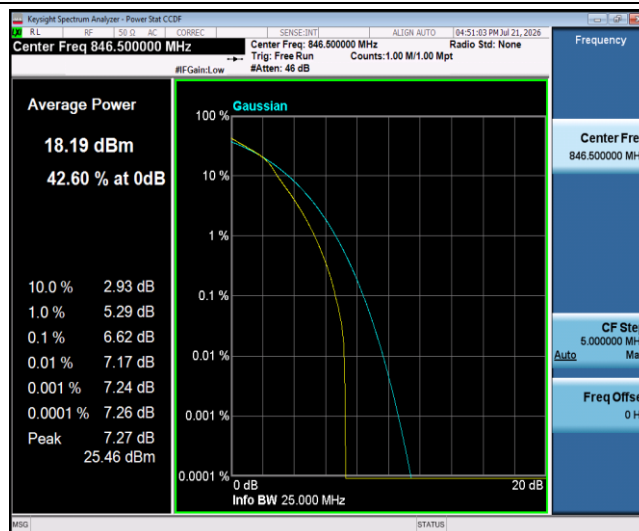
Band5-5MHz-16QAM-20525-1RB#0



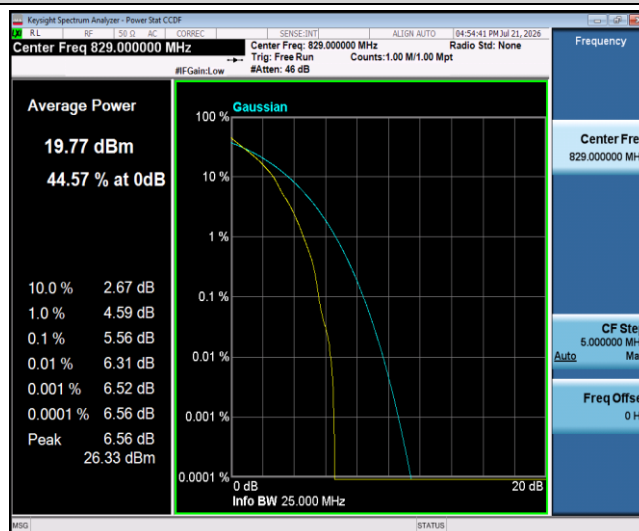
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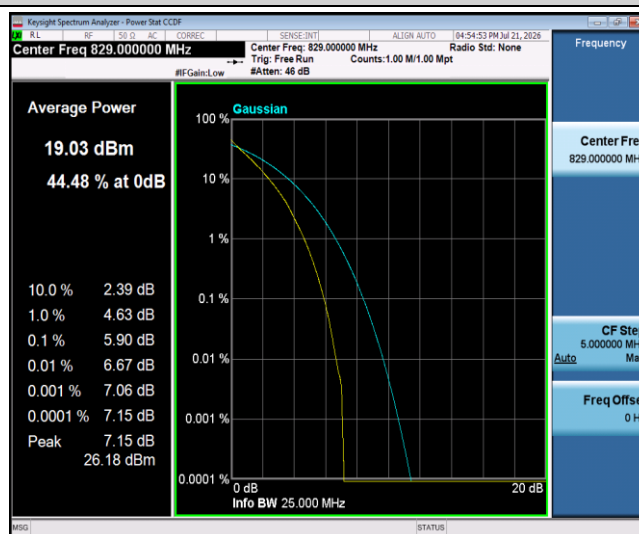
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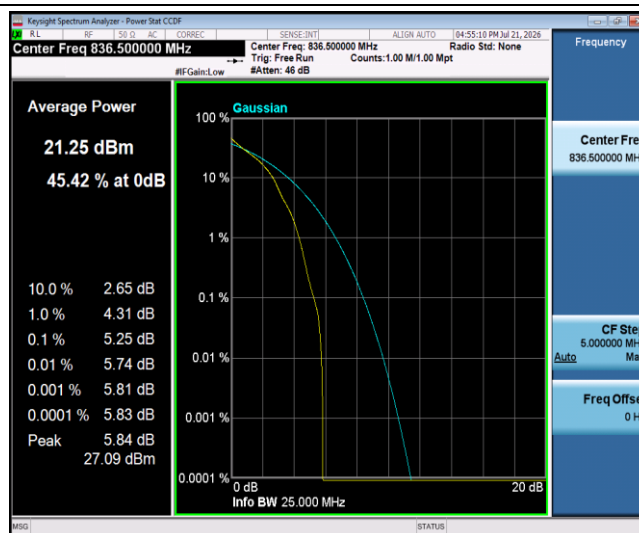
Band5-5MHz-16QAM-20625-25RB#0



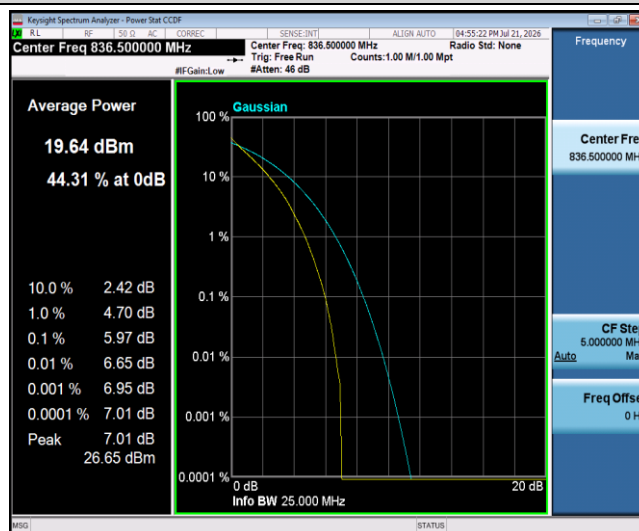
Band5-10MHz-QPSK-20450-1RB#0



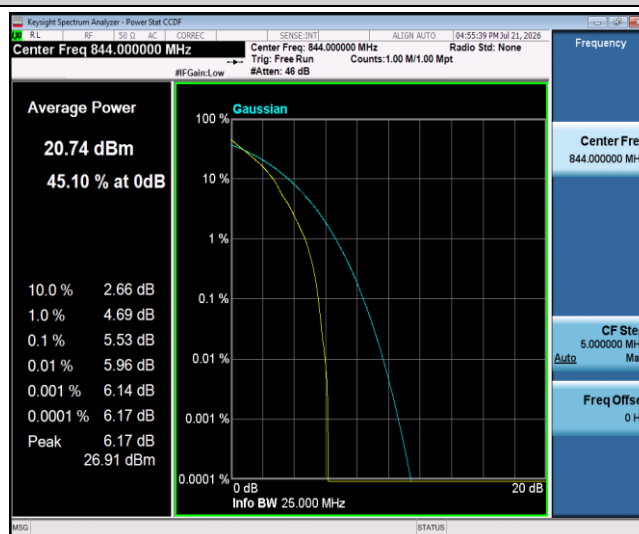
Band5-10MHz-QPSK-20450-50RB#0



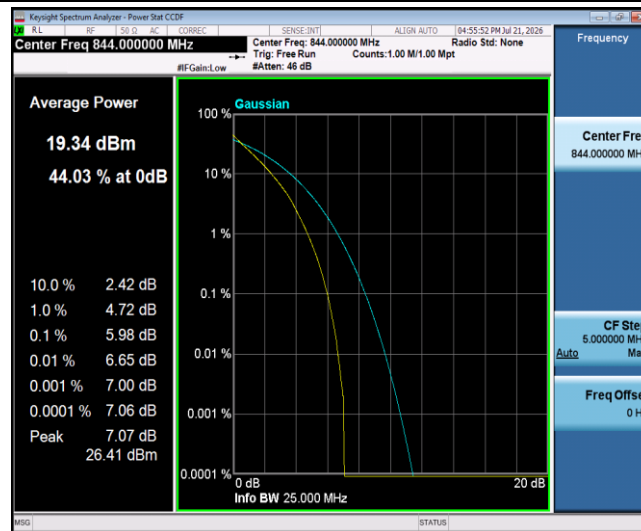
Band5-10MHz-QPSK-20525-1RB#0



Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-QPSK-20600-1RB#0



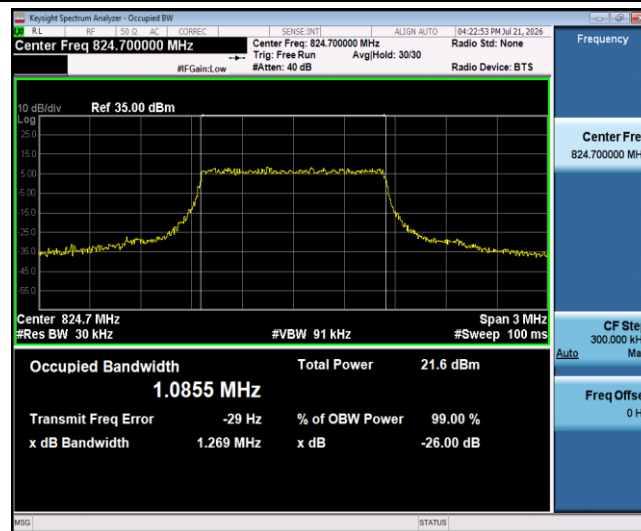
Band5-10MHz-QPSK-20600-50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

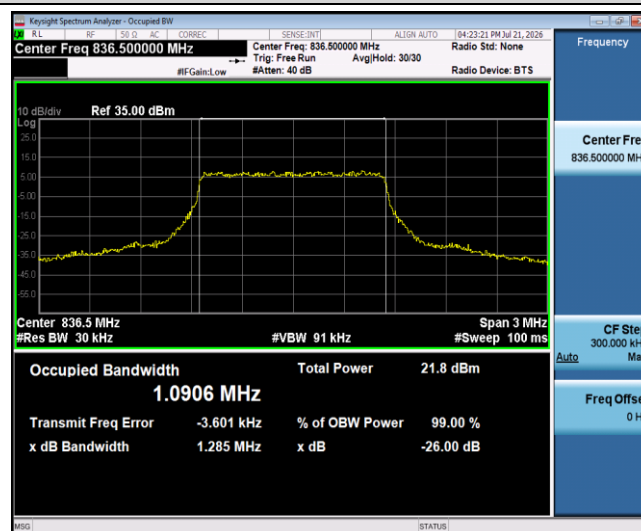
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0855	1.269	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0906	1.285	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0921	1.273	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0894	1.294	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0878	1.296	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0914	1.310	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6960	3.032	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.7027	3.024	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.7000	3.028	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.7017	3.036	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6984	3.069	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6969	2.999	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5138	5.189	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4955	5.094	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5134	5.138	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5002	5.156	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5061	5.189	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5092	5.101	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9844	9.644	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9887	9.669	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9914	9.856	PASS

Test Graphs



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



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