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Appendix for LTE Band 5

Applicant: Imin Technology Pte Ltd

**Address: 11 Bishan Street 21, #03-05 Bosch Building, Singapore,
573943**

Product Name: POS Device

Model: I23M03

FCC ID: 2AYD5-I23M03

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1 Summary of Test Results Data and Graph

1.1. Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	25.25	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.00	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	25.32	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.26	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	25.21	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.00	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	25.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	24.04	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	25.22	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.06	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	25.26	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	24.01	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	24.17	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	25.08	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	25.19	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	25.07	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.78	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	25.12	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.88	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	25.13	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	25.24	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.86	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	24.17	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	23.09	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	25.04	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.87	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	25.05	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	24.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	25.03	PASS

Band5	1.4MHz	16QAM	20643	1RB#5	23.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	25.09	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.84	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	25.08	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	25.06	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.81	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	24.14	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	23.06	PASS
Band5	3MHz	QPSK	20415	1RB#0	25.25	PASS
Band5	3MHz	16QAM	20415	1RB#0	24.29	PASS
Band5	3MHz	QPSK	20415	1RB#8	25.27	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.28	PASS
Band5	3MHz	QPSK	20415	1RB#14	25.29	PASS
Band5	3MHz	16QAM	20415	1RB#14	24.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	24.26	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.27	PASS
Band5	3MHz	QPSK	20415	8RB#4	24.24	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.30	PASS
Band5	3MHz	QPSK	20415	8RB#7	24.27	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	24.20	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.27	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.28	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.07	PASS
Band5	3MHz	QPSK	20525	1RB#8	25.29	PASS
Band5	3MHz	16QAM	20525	1RB#8	24.03	PASS
Band5	3MHz	QPSK	20525	1RB#14	25.31	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.01	PASS
Band5	3MHz	QPSK	20525	8RB#0	24.24	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.15	PASS
Band5	3MHz	QPSK	20525	8RB#4	24.23	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.17	PASS
Band5	3MHz	QPSK	20525	8RB#7	24.21	PASS
Band5	3MHz	16QAM	20525	8RB#7	23.09	PASS
Band5	3MHz	QPSK	20525	15RB#0	24.17	PASS
Band5	3MHz	16QAM	20525	15RB#0	23.10	PASS
Band5	3MHz	QPSK	20635	1RB#0	25.17	PASS

Band5	3MHz	16QAM	20635	1RB#0	23.90	PASS
Band5	3MHz	QPSK	20635	1RB#8	25.16	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.91	PASS
Band5	3MHz	QPSK	20635	1RB#14	25.17	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.97	PASS
Band5	3MHz	QPSK	20635	8RB#0	24.19	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.14	PASS
Band5	3MHz	QPSK	20635	8RB#4	24.21	PASS
Band5	3MHz	16QAM	20635	8RB#4	23.12	PASS
Band5	3MHz	QPSK	20635	8RB#7	24.19	PASS
Band5	3MHz	16QAM	20635	8RB#7	23.08	PASS
Band5	3MHz	QPSK	20635	15RB#0	24.11	PASS
Band5	3MHz	16QAM	20635	15RB#0	23.02	PASS
Band5	5MHz	QPSK	20425	1RB#0	25.17	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.08	PASS
Band5	5MHz	QPSK	20425	1RB#12	25.35	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.19	PASS
Band5	5MHz	QPSK	20425	1RB#24	25.20	PASS
Band5	5MHz	16QAM	20425	1RB#24	24.12	PASS
Band5	5MHz	QPSK	20425	12RB#0	24.12	PASS
Band5	5MHz	16QAM	20425	12RB#0	23.12	PASS
Band5	5MHz	QPSK	20425	12RB#6	24.16	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.09	PASS
Band5	5MHz	QPSK	20425	12RB#13	24.22	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.15	PASS
Band5	5MHz	QPSK	20425	25RB#0	24.21	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.16	PASS
Band5	5MHz	QPSK	20525	1RB#0	25.06	PASS
Band5	5MHz	16QAM	20525	1RB#0	24.07	PASS
Band5	5MHz	QPSK	20525	1RB#12	25.16	PASS
Band5	5MHz	16QAM	20525	1RB#12	24.19	PASS
Band5	5MHz	QPSK	20525	1RB#24	25.05	PASS
Band5	5MHz	16QAM	20525	1RB#24	24.04	PASS
Band5	5MHz	QPSK	20525	12RB#0	24.13	PASS
Band5	5MHz	16QAM	20525	12RB#0	23.16	PASS
Band5	5MHz	QPSK	20525	12RB#6	24.15	PASS
Band5	5MHz	16QAM	20525	12RB#6	23.12	PASS
Band5	5MHz	QPSK	20525	12RB#13	24.04	PASS

Band5	5MHz	16QAM	20525	12RB#13	23.01	PASS
Band5	5MHz	QPSK	20525	25RB#0	24.09	PASS
Band5	5MHz	16QAM	20525	25RB#0	23.07	PASS
Band5	5MHz	QPSK	20625	1RB#0	25.09	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.95	PASS
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Band5	5MHz	16QAM	20625	1RB#12	24.00	PASS
Band5	5MHz	QPSK	20625	1RB#24	25.04	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.88	PASS
Band5	5MHz	QPSK	20625	12RB#0	24.01	PASS
Band5	5MHz	16QAM	20625	12RB#0	23.00	PASS
Band5	5MHz	QPSK	20625	12RB#6	24.02	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.97	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.90	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.84	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.96	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.94	PASS
Band5	10MHz	QPSK	20450	1RB#0	25.17	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.17	PASS
Band5	10MHz	QPSK	20450	1RB#24	25.34	PASS
Band5	10MHz	16QAM	20450	1RB#24	24.30	PASS
Band5	10MHz	QPSK	20450	1RB#49	25.11	PASS
Band5	10MHz	16QAM	20450	1RB#49	24.08	PASS
Band5	10MHz	QPSK	20450	25RB#0	24.17	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.14	PASS
Band5	10MHz	QPSK	20450	25RB#12	24.18	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.18	PASS
Band5	10MHz	QPSK	20450	25RB#25	24.22	PASS
Band5	10MHz	16QAM	20450	25RB#25	23.21	PASS
Band5	10MHz	QPSK	20450	50RB#0	24.21	PASS
Band5	10MHz	16QAM	20450	50RB#0	23.17	PASS
Band5	10MHz	QPSK	20525	1RB#0	25.23	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.96	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.39	PASS
Band5	10MHz	16QAM	20525	1RB#24	24.07	PASS
Band5	10MHz	QPSK	20525	1RB#49	25.12	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.86	PASS
Band5	10MHz	QPSK	20525	25RB#0	24.25	PASS

Band5	10MHz	16QAM	20525	25RB#0	23.22	PASS
Band5	10MHz	QPSK	20525	25RB#12	24.26	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.23	PASS
Band5	10MHz	QPSK	20525	25RB#25	24.01	PASS
Band5	10MHz	16QAM	20525	25RB#25	23.06	PASS
Band5	10MHz	QPSK	20525	50RB#0	24.15	PASS
Band5	10MHz	16QAM	20525	50RB#0	23.16	PASS
Band5	10MHz	QPSK	20600	1RB#0	25.09	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.89	PASS
Band5	10MHz	QPSK	20600	1RB#24	25.33	PASS
Band5	10MHz	16QAM	20600	1RB#24	24.15	PASS
Band5	10MHz	QPSK	20600	1RB#49	25.05	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.82	PASS
Band5	10MHz	QPSK	20600	25RB#0	24.11	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.11	PASS
Band5	10MHz	QPSK	20600	25RB#12	24.11	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.12	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.96	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.96	PASS
Band5	10MHz	QPSK	20600	50RB#0	24.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	23.06	PASS

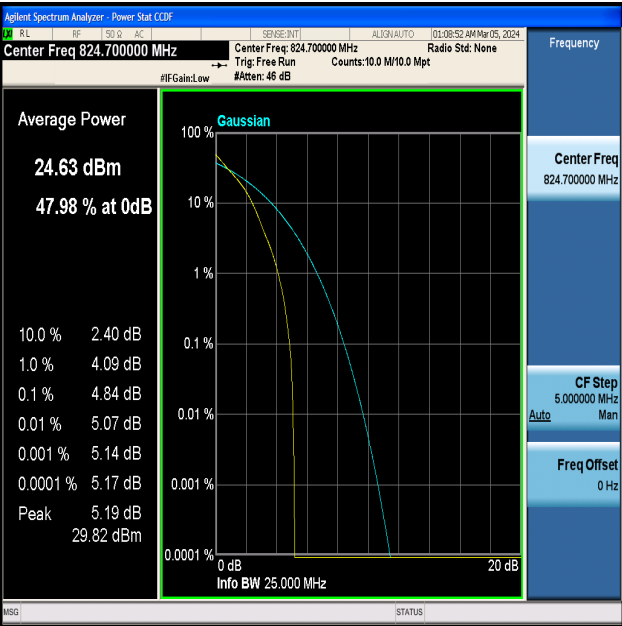
1.2. Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

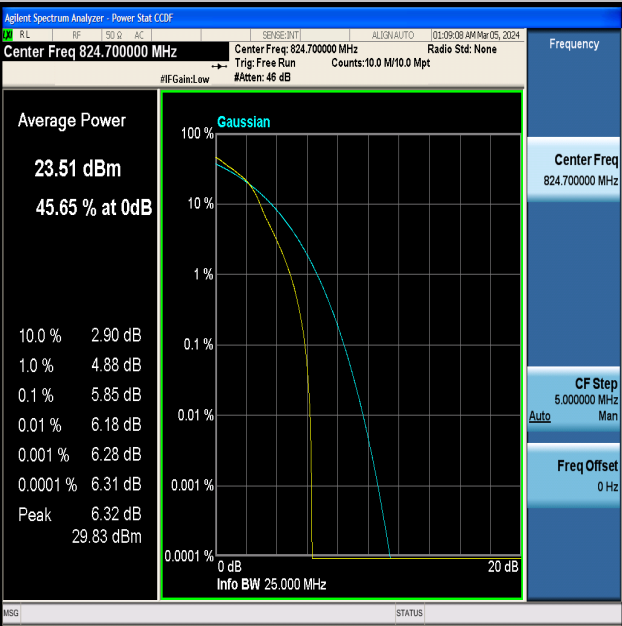
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	4.84	13	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	5.85	13	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	5.47	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	6.24	13	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	4.07	13	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	4.90	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.68	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.55	13	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3.93	13	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	5.02	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.65	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.47	13	PASS
Band5	3MHz	QPSK	20415	1RB#0	4.75	13	PASS
Band5	3MHz	16QAM	20415	1RB#0	5.89	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.44	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.33	13	PASS
Band5	3MHz	QPSK	20525	1RB#0	3.95	13	PASS
Band5	3MHz	16QAM	20525	1RB#0	4.85	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.69	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.53	13	PASS
Band5	3MHz	QPSK	20635	1RB#0	3.90	13	PASS
Band5	3MHz	16QAM	20635	1RB#0	4.78	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.58	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.39	13	PASS
Band5	5MHz	QPSK	20425	1RB#0	4.80	13	PASS
Band5	5MHz	16QAM	20425	1RB#0	5.50	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	5.54	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	6.29	13	PASS
Band5	5MHz	QPSK	20525	1RB#0	4.07	13	PASS
Band5	5MHz	16QAM	20525	1RB#0	4.75	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.80	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.56	13	PASS
Band5	5MHz	QPSK	20625	1RB#0	4.74	13	PASS
Band5	5MHz	16QAM	20625	1RB#0	5.51	13	PASS

Band5	5MHz	QPSK	20625	25RB#0	4.91	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.67	13	PASS
Band5	10MHz	QPSK	20450	1RB#0	4.81	13	PASS
Band5	10MHz	16QAM	20450	1RB#0	5.94	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	5.12	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.97	13	PASS
Band5	10MHz	QPSK	20525	1RB#0	4.12	13	PASS
Band5	10MHz	16QAM	20525	1RB#0	5.03	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.90	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.68	13	PASS
Band5	10MHz	QPSK	20600	1RB#0	4.80	13	PASS
Band5	10MHz	16QAM	20600	1RB#0	5.58	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.16	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.01	13	PASS

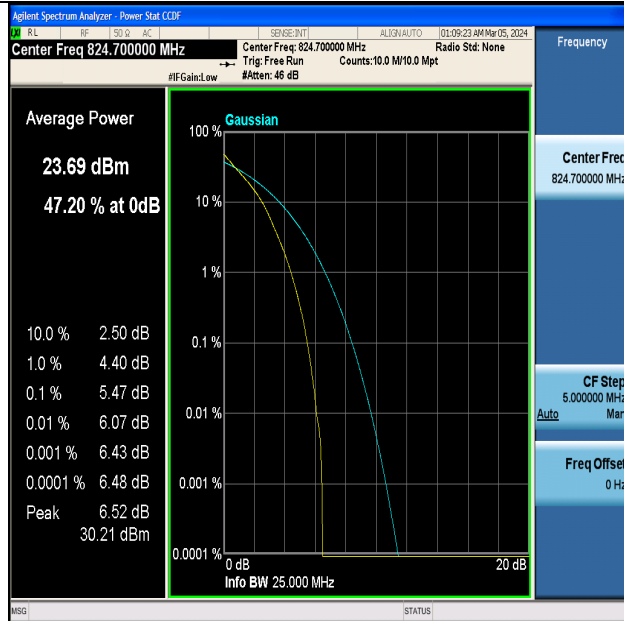
Test Graphs



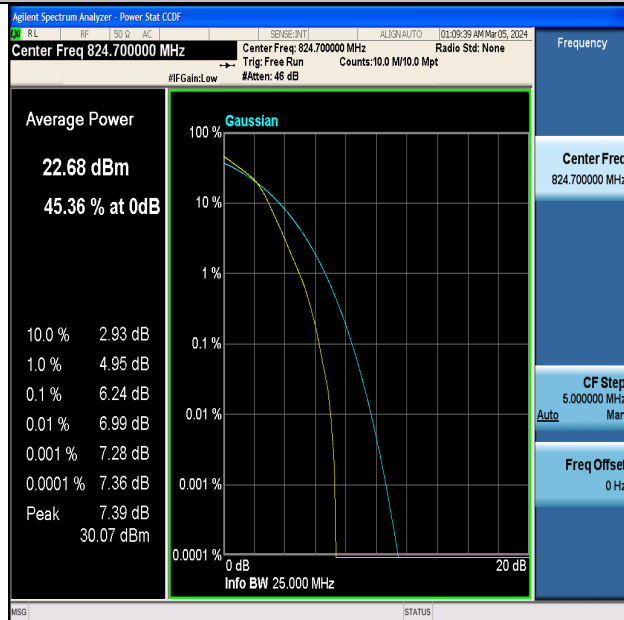
Band5-1.4MHz-QPSK-20407-1RB#0-PASS



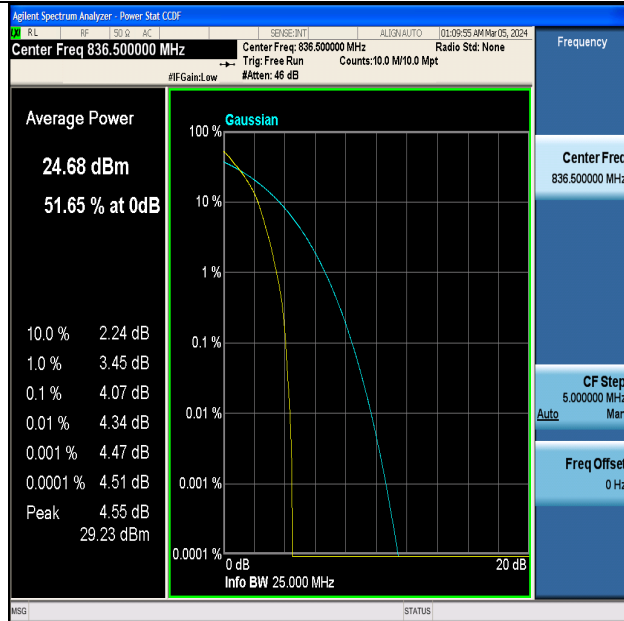
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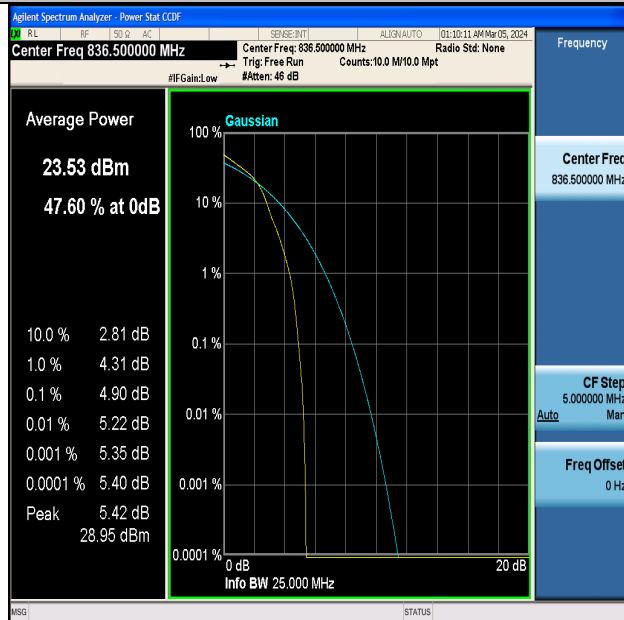
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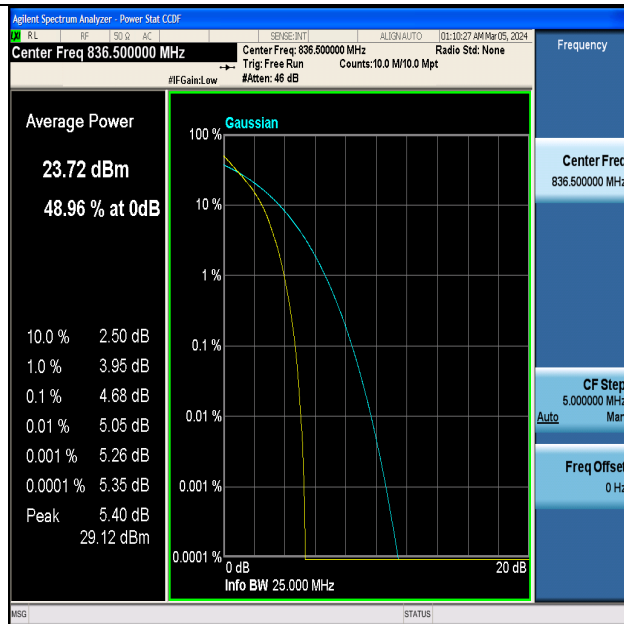
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



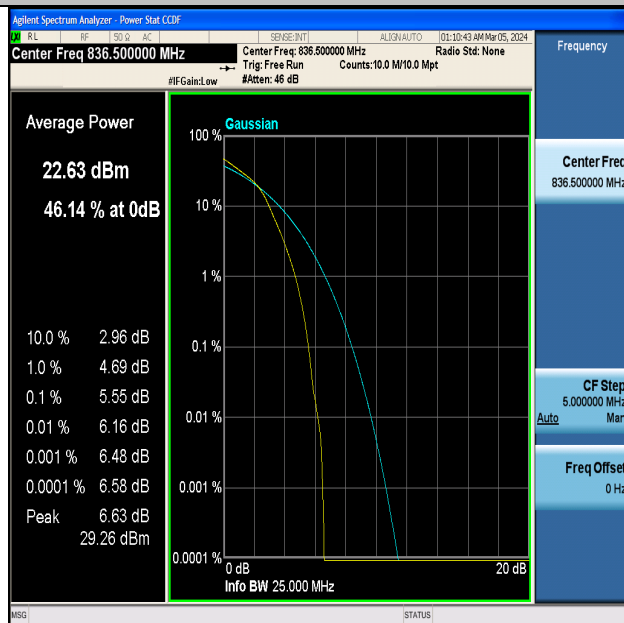
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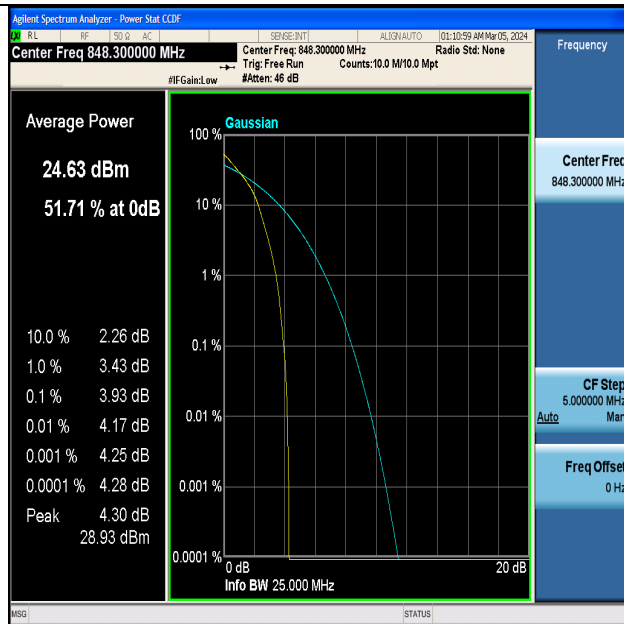
Band5-1.4MHz-16QAM-20525-1RB#0-PASS



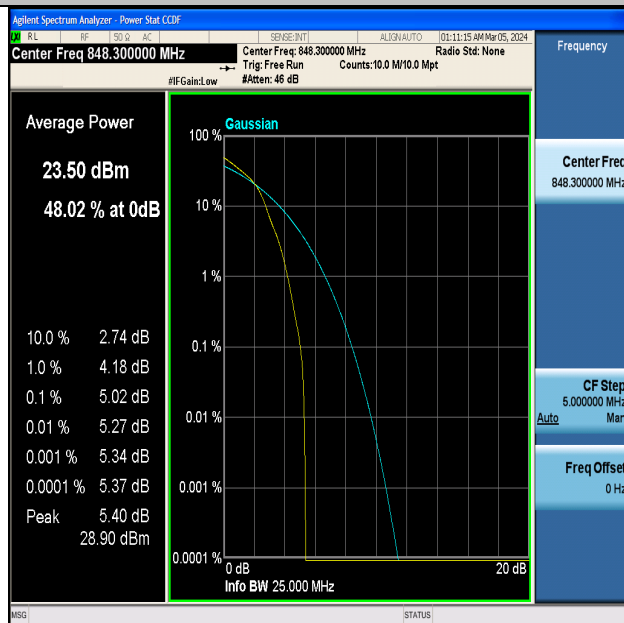
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



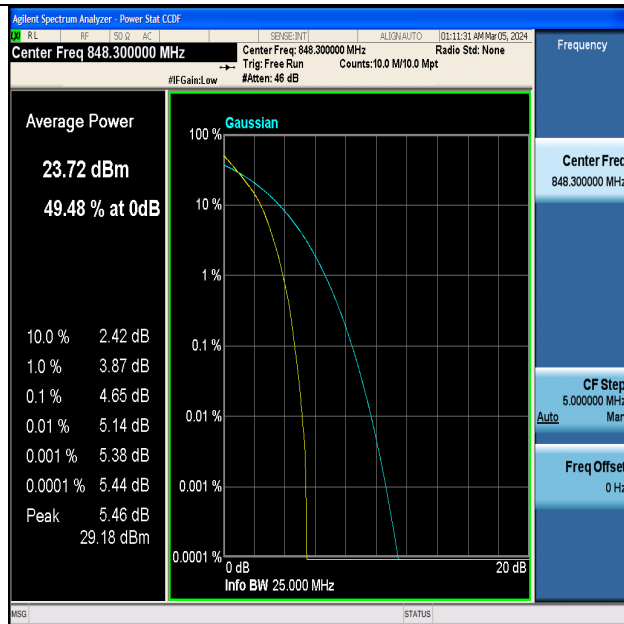
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



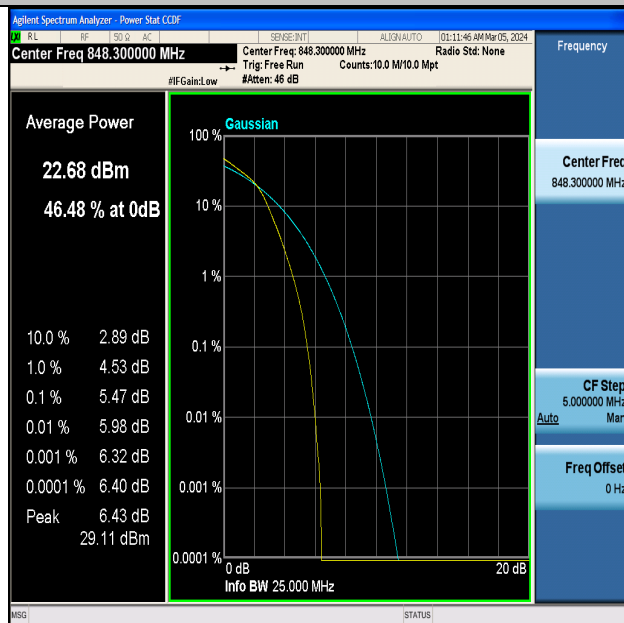
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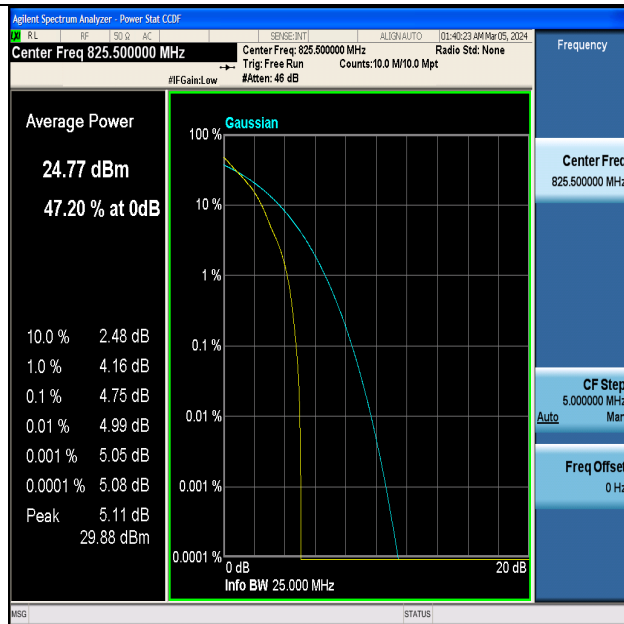
Band5-1.4MHz-16QAM-20643-1RB#0-PASS



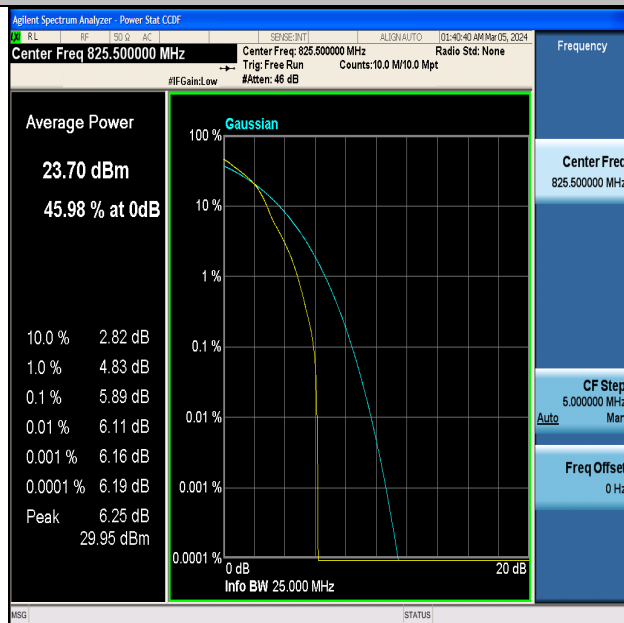
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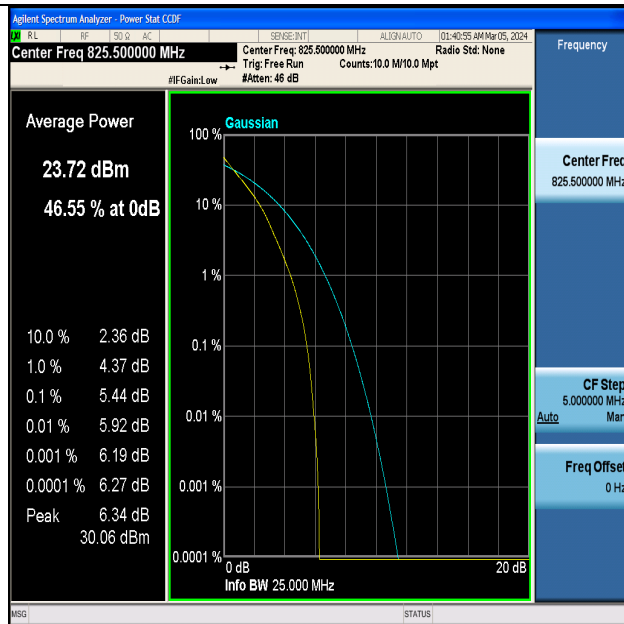
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



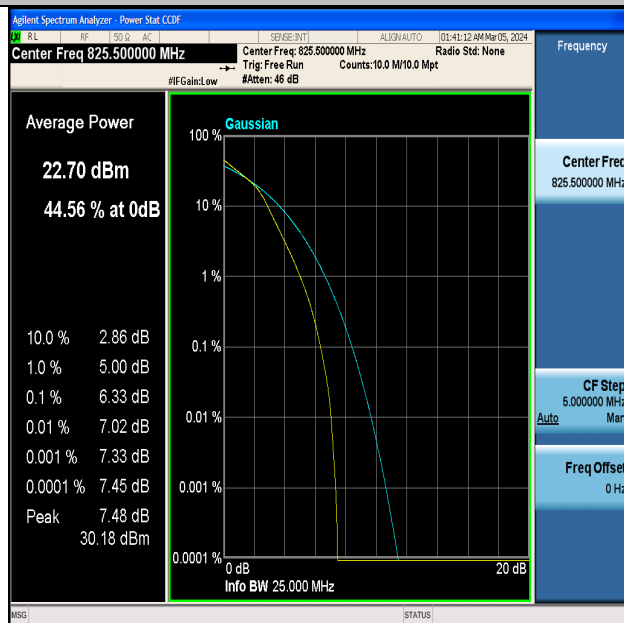
Band5-3MHz-QPSK-20415-1RB#0-PASS



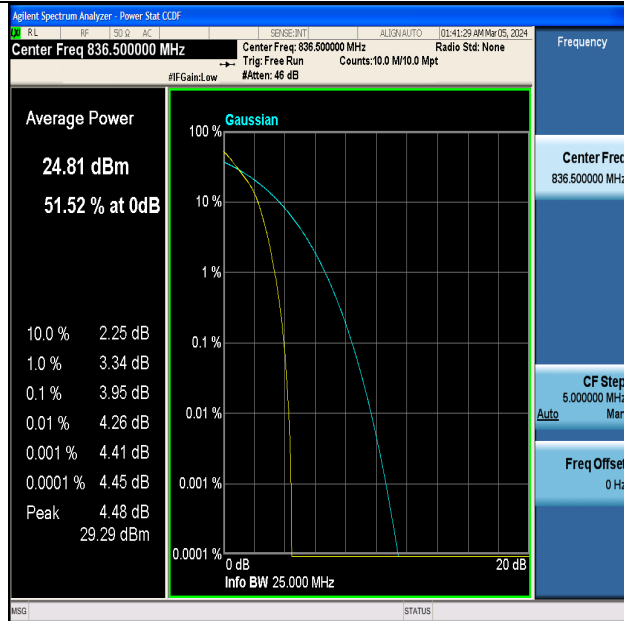
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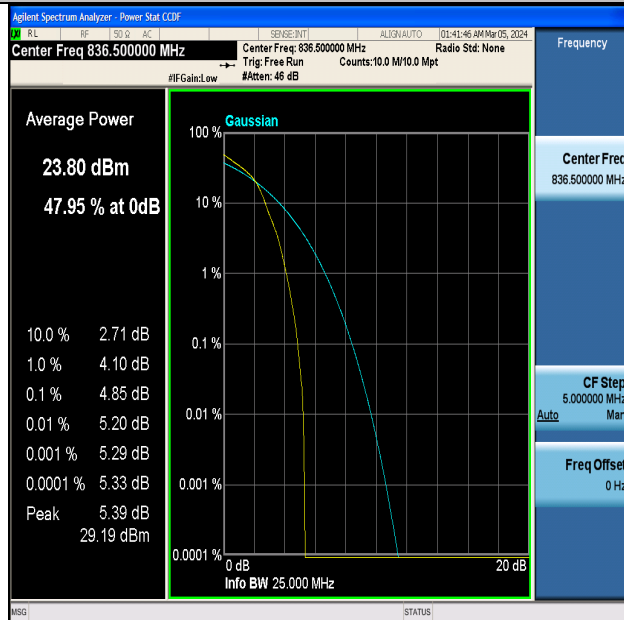
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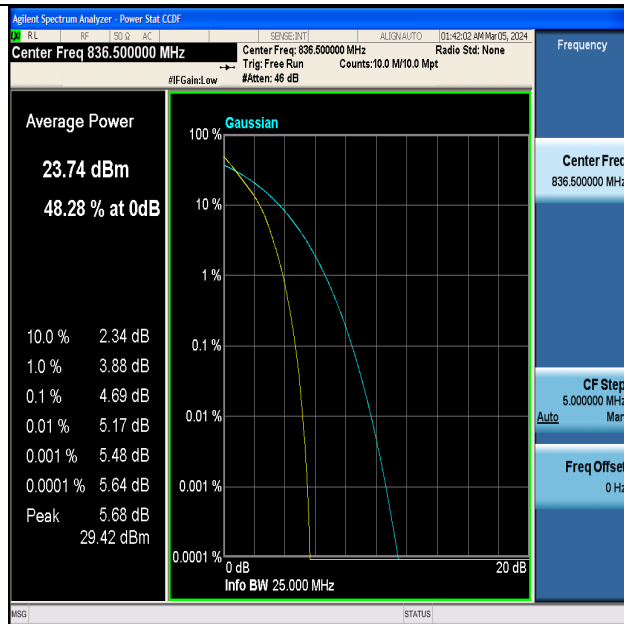
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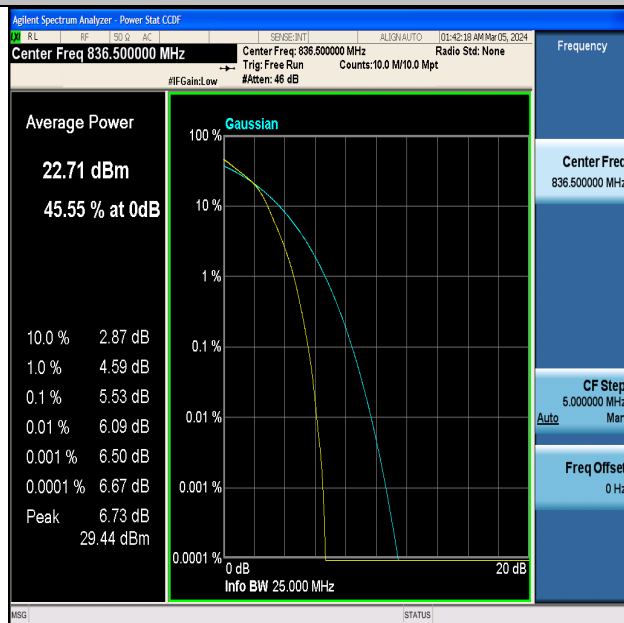
Band5-3MHz-QPSK-20525-1RB#0-PASS



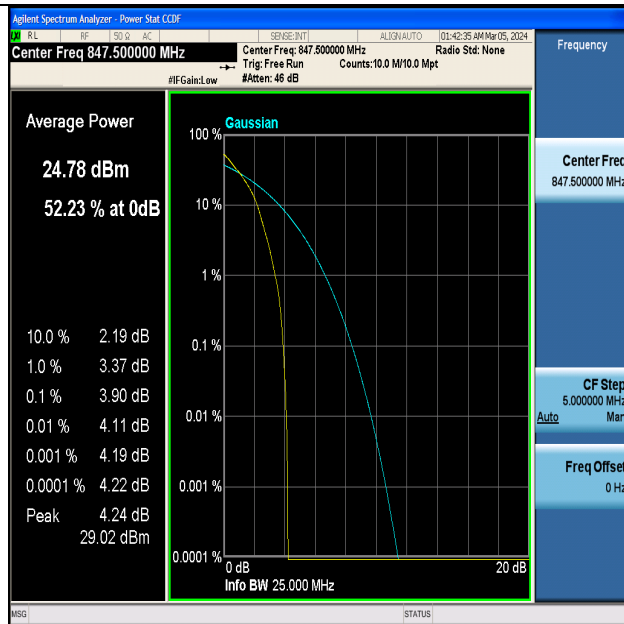
Band5-3MHz-16QAM-20525-1RB#0-PASS



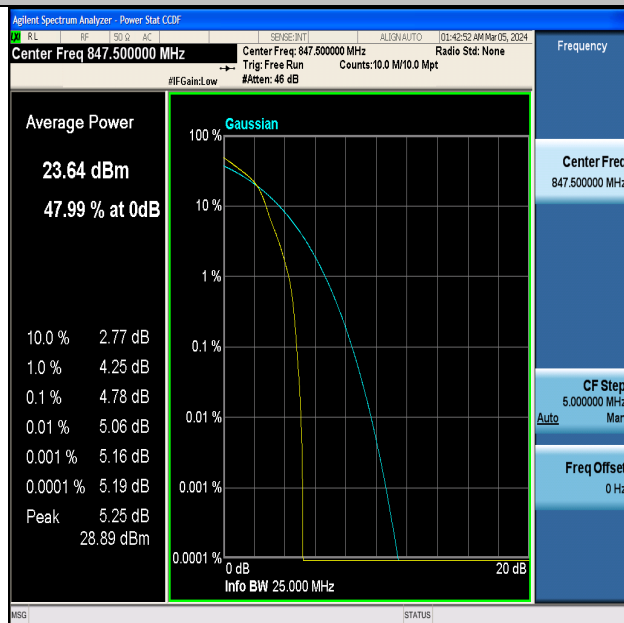
Band5-3MHz-QPSK-20525-15RB#0-PASS



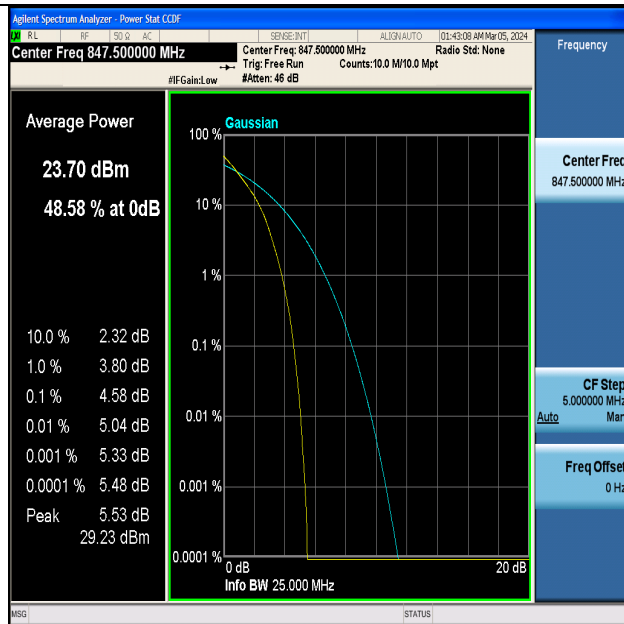
Band5-3MHz-16QAM-20525-15RB#0-PASS



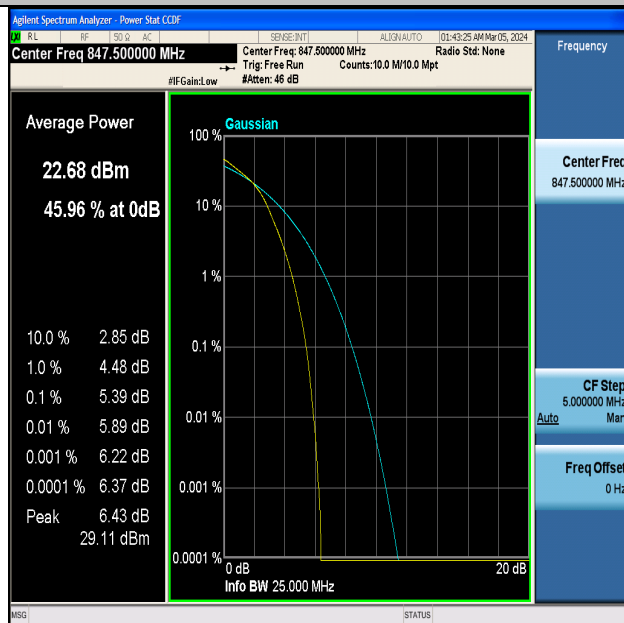
Band5-3MHz-QPSK-20635-1RB#0-PASS



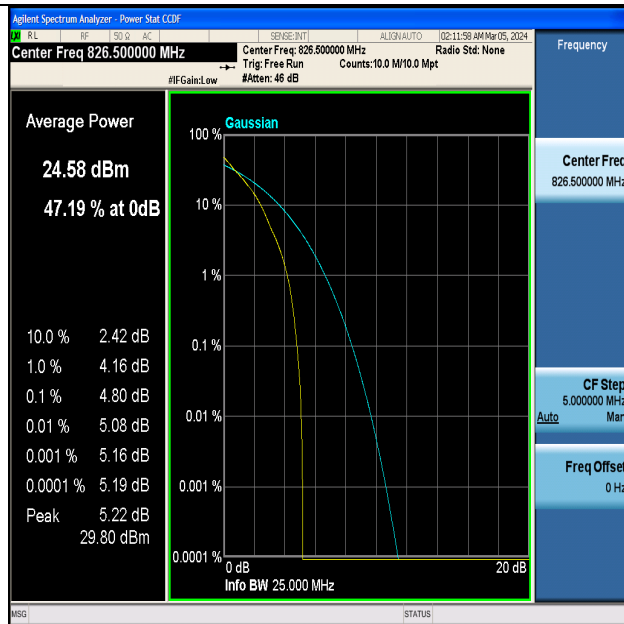
Band5-3MHz-16QAM-20635-1RB#0-PASS



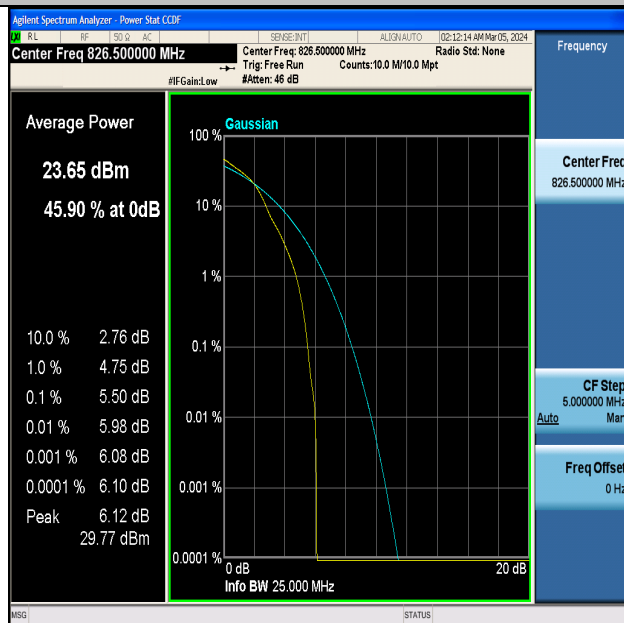
Band5-3MHz-QPSK-20635-15RB#0-PASS



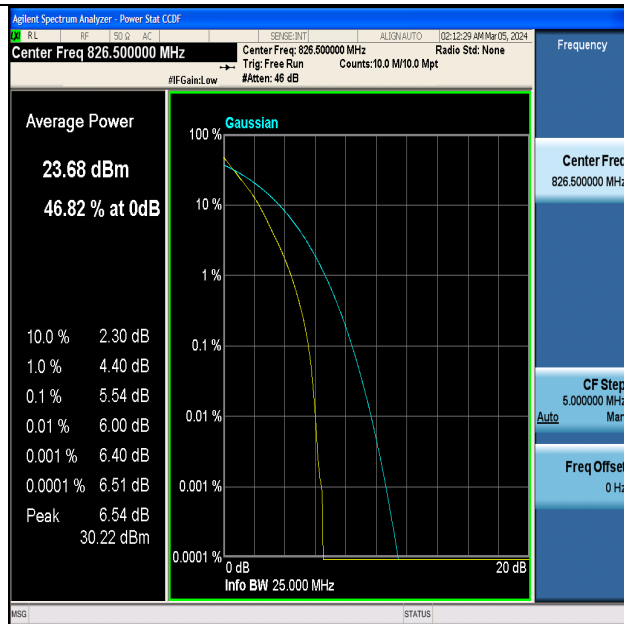
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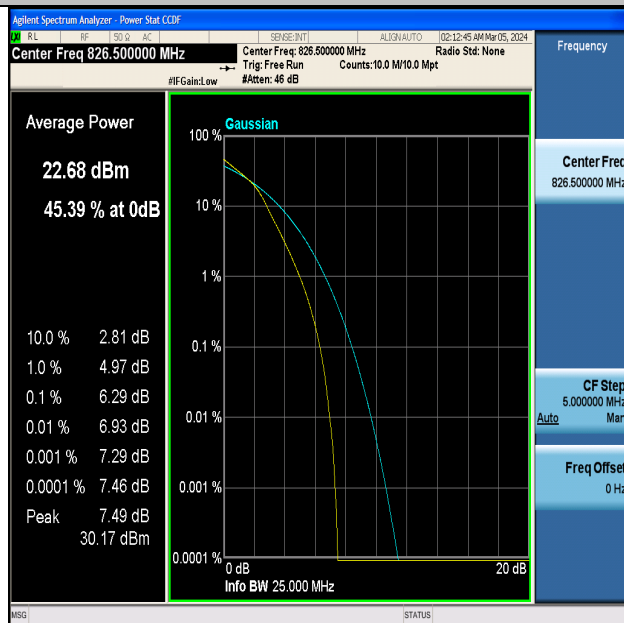
Band5-5MHz-QPSK-20425-1RB#0-PASS



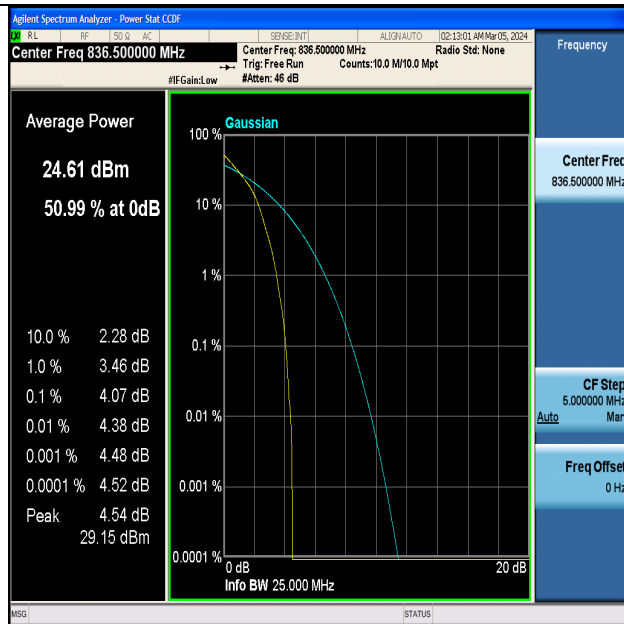
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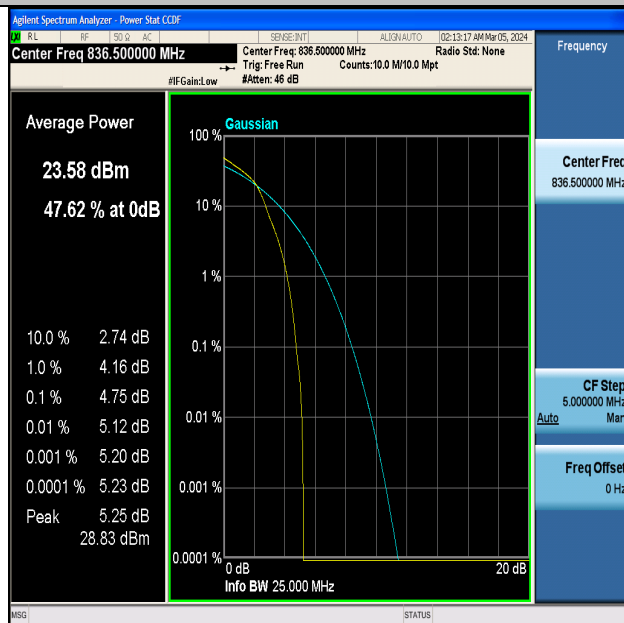
Band5-5MHz-QPSK-20425-25RB#0-PASS



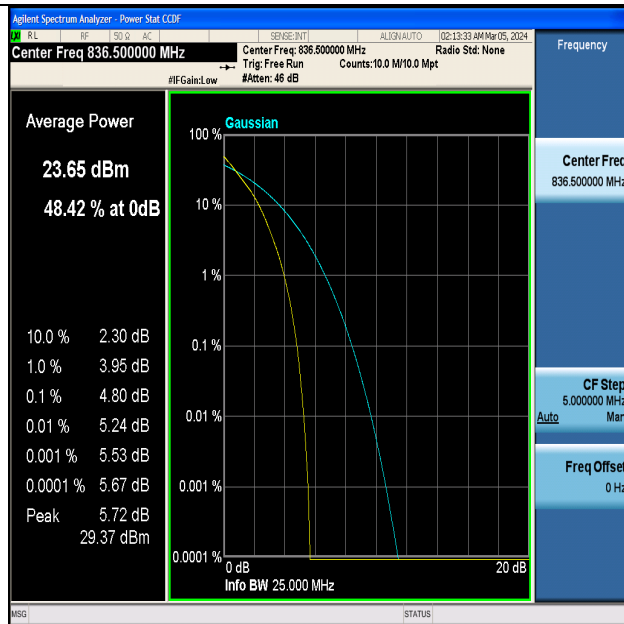
Band5-5MHz-16QAM-20425-25RB#0-PASS



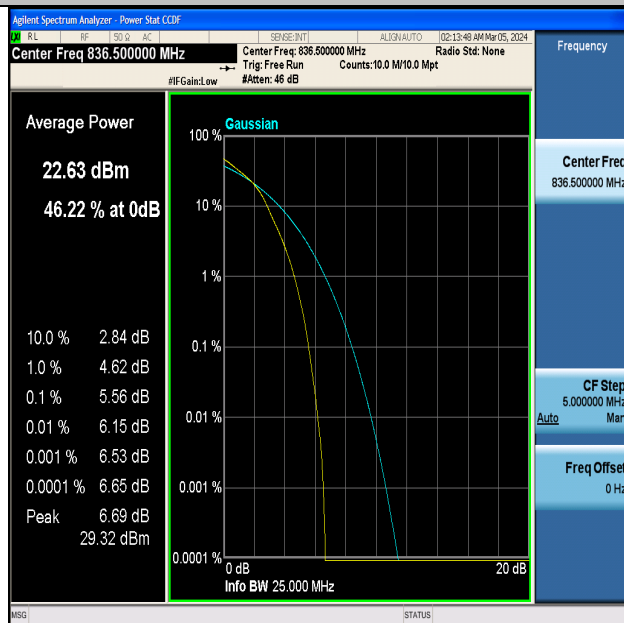
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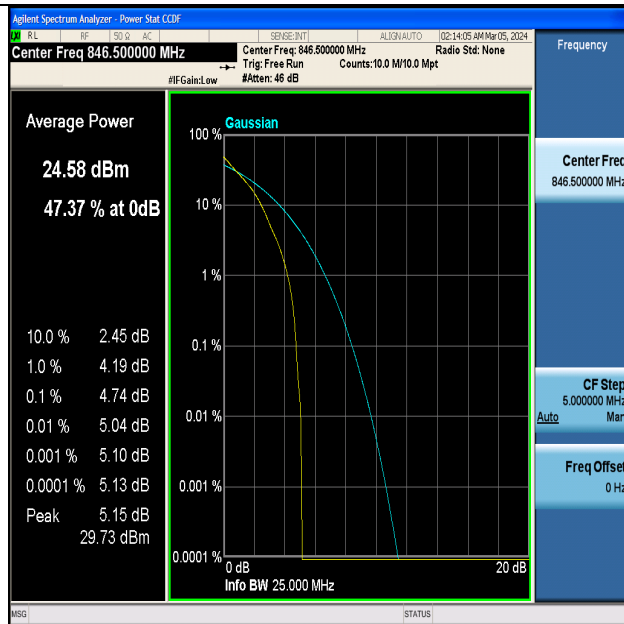
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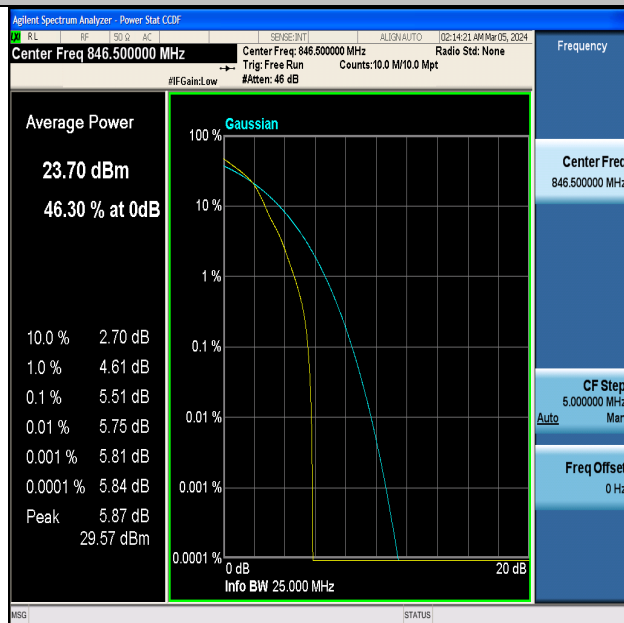
Band5-5MHz-QPSK-20525-25RB#0-PASS



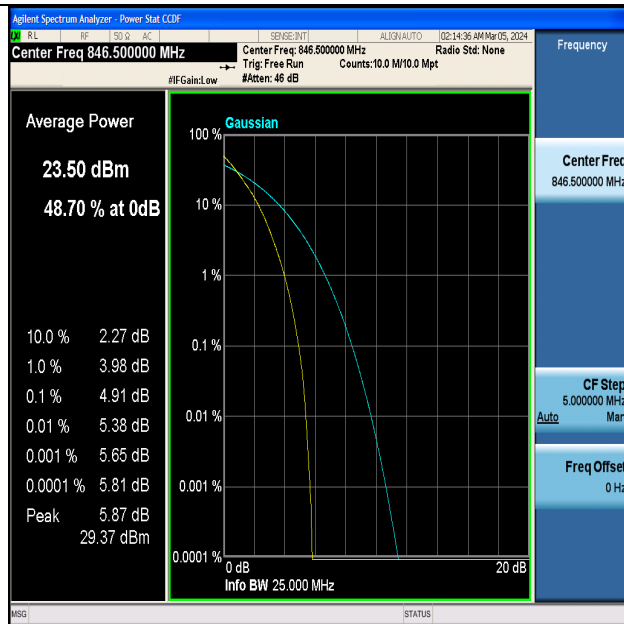
Band5-5MHz-16QAM-20525-25RB#0-PASS



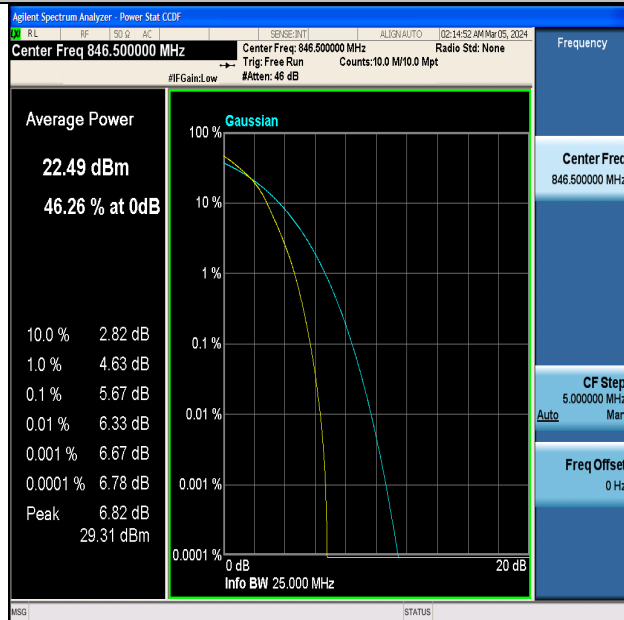
Band5-5MHz-QPSK-20625-1RB#0-PASS



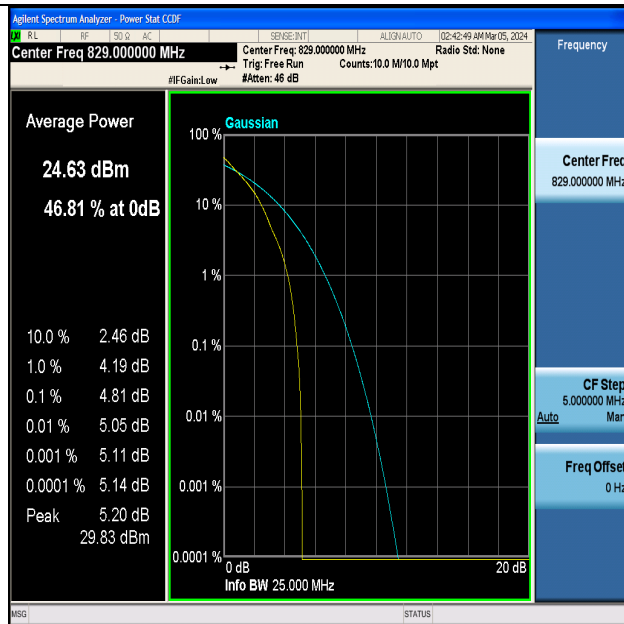
Band5-5MHz-16QAM-20625-1RB#0-PASS



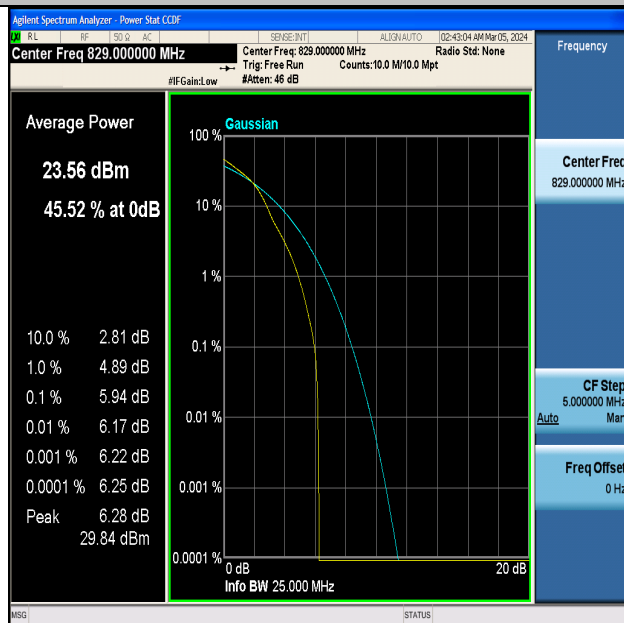
Band5-5MHz-QPSK-20625-25RB#0-PASS



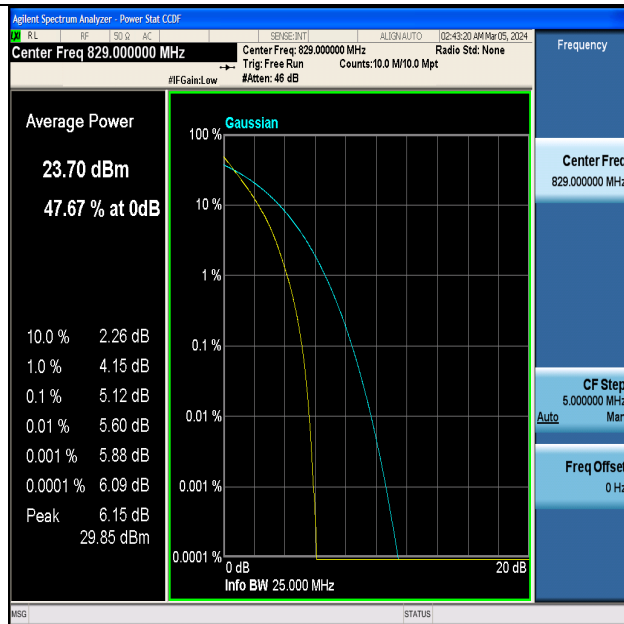
Band5-5MHz-16QAM-20625-25RB#0-PASS



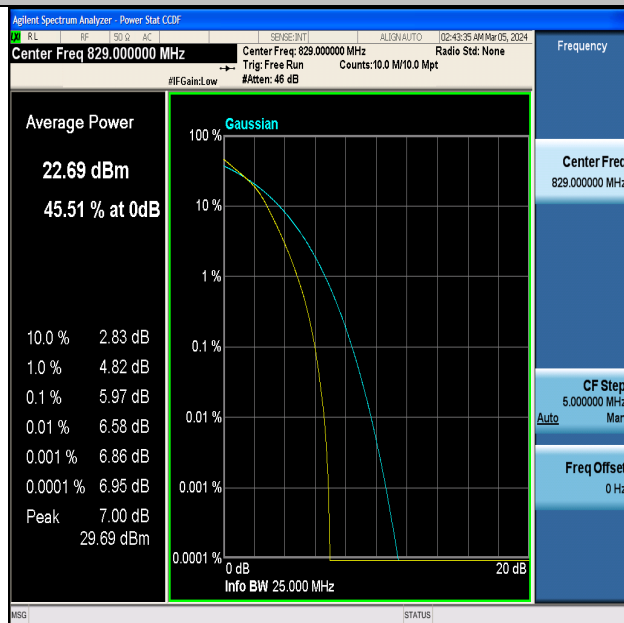
Band5-10MHz-QPSK-20450-1RB#0-PASS



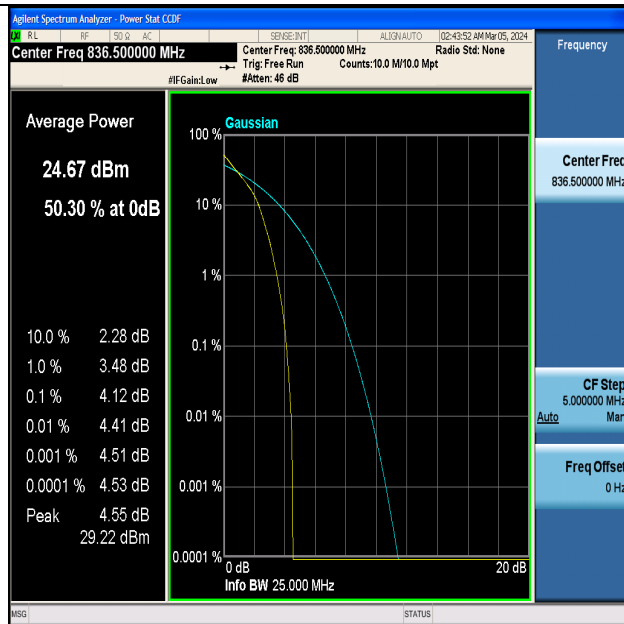
Band5-10MHz-16QAM-20450-1RB#0-PASS



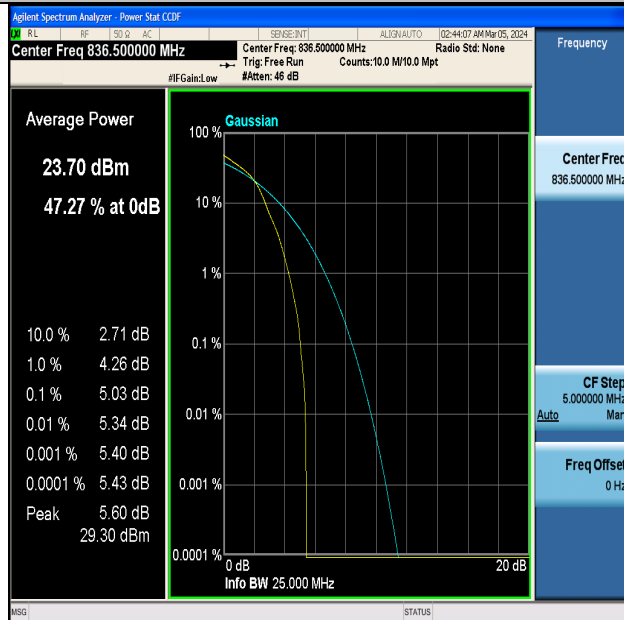
Band5-10MHz-QPSK-20450-50RB#0-PASS



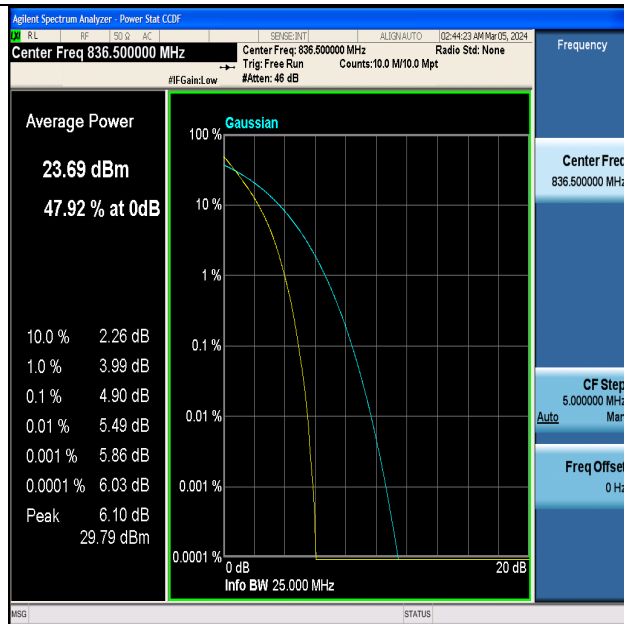
Band5-10MHz-16QAM-20450-50RB#0-PASS



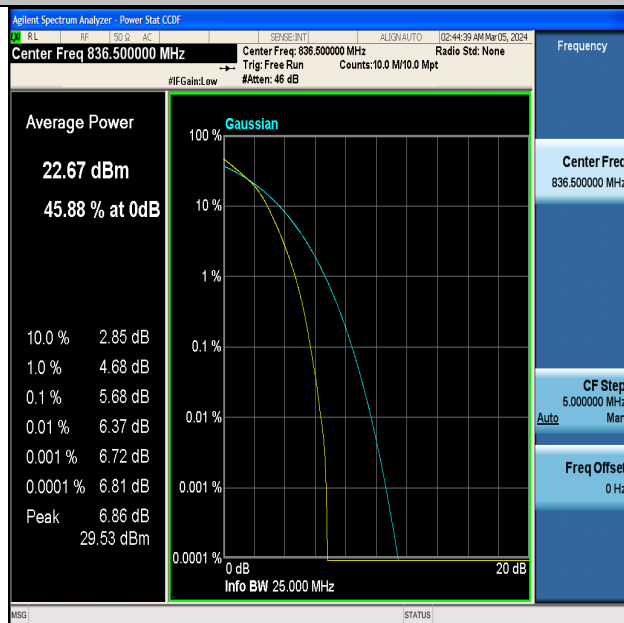
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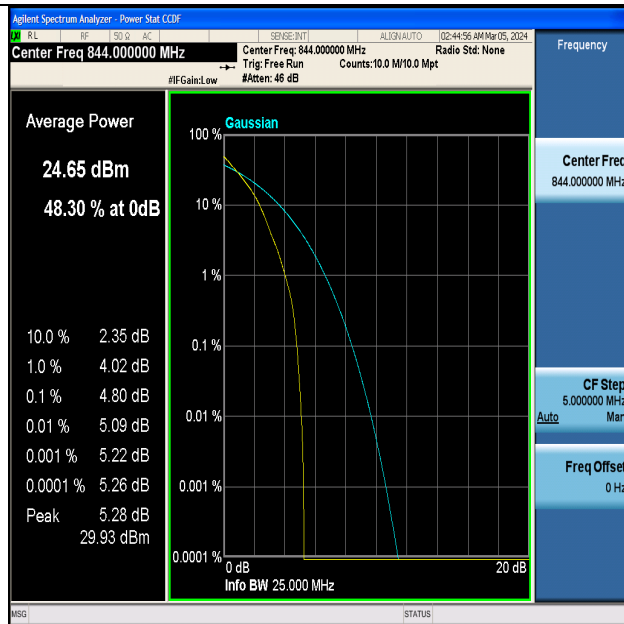
Band5-10MHz-16QAM-20525-1RB#0-PASS



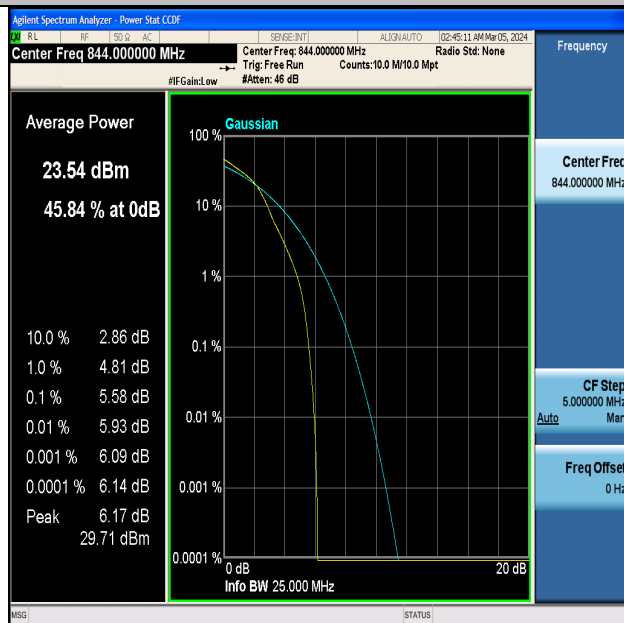
Band5-10MHz-QPSK-20525-50RB#0-PASS



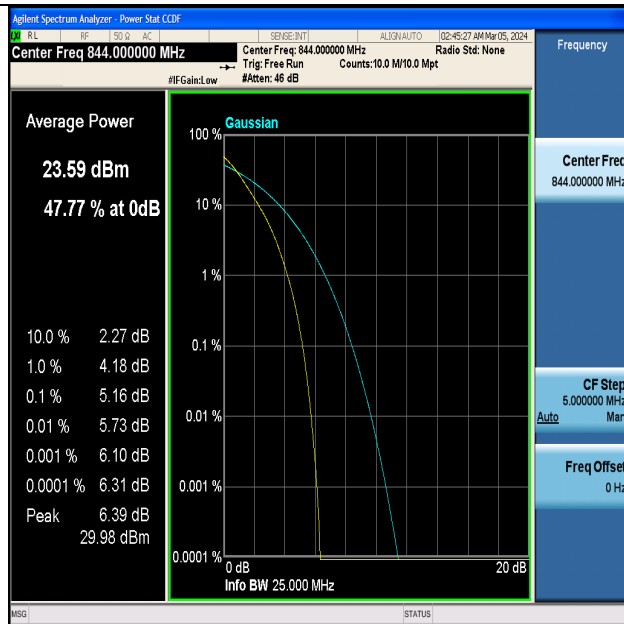
Band5-10MHz-16QAM-20525-50RB#0-PASS



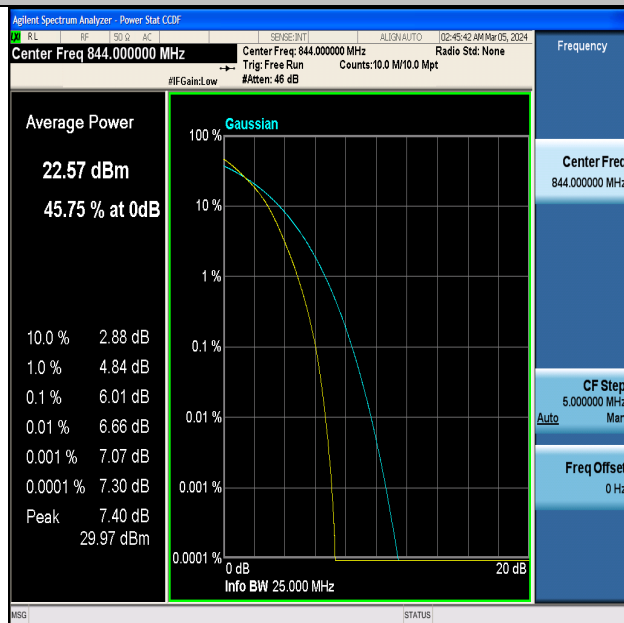
Band5-10MHz-QPSK-20600-1RB#0-PASS



Band5-10MHz-16QAM-20600-1RB#0-PASS



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



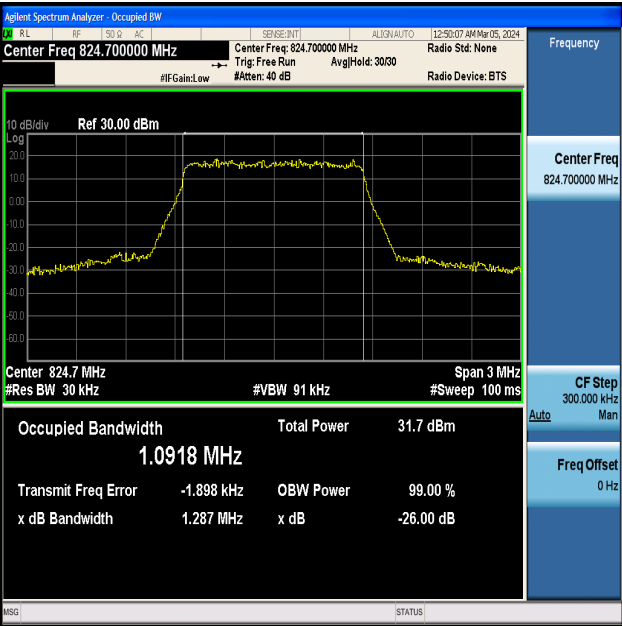
Band5-10MHz-16QAM-20600-50RB#0-PASS

1.3. Appendix C: 26dB Bandwidth and Occupied Bandwidth

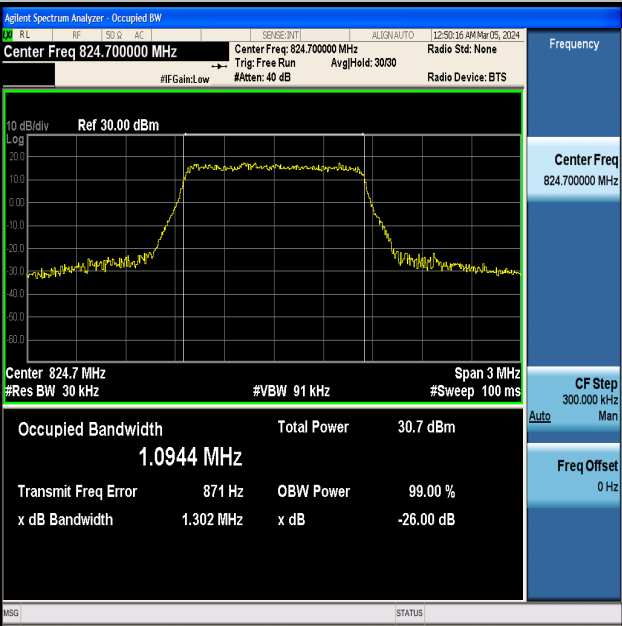
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0918	1.287	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0944	1.302	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0948	1.305	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0865	1.274	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0909	1.308	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0950	1.315	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6869	2.899	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6796	2.887	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6855	2.900	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6831	2.890	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6971	2.904	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6837	2.890	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5213	5.203	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5198	5.129	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5093	5.136	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5255	5.192	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5067	5.135	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5211	5.154	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9958	10.11	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9924	10.02	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9974	10.11	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9944	10.08	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9600	10.03	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9655	9.995	PASS

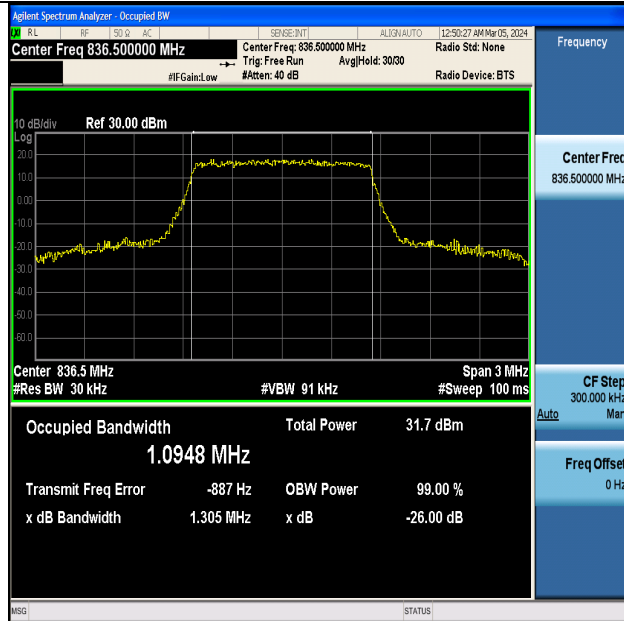
Test Graphs



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



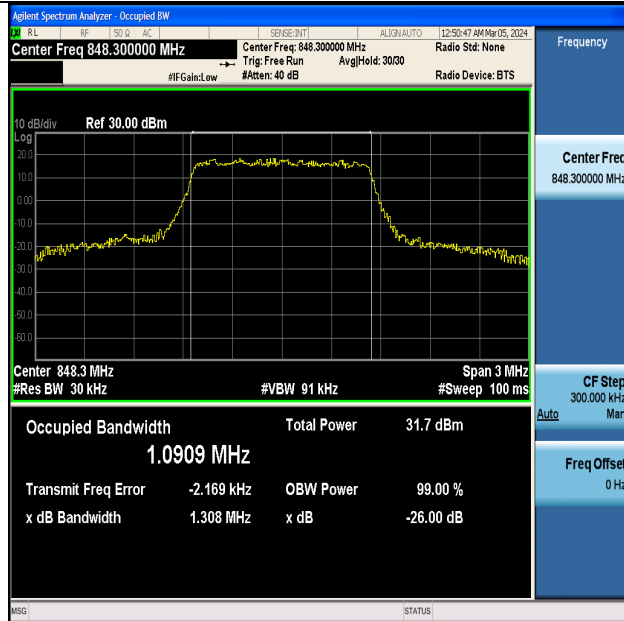
Band5-1.4MHz-16QAM-20407-6RB#0-PASS



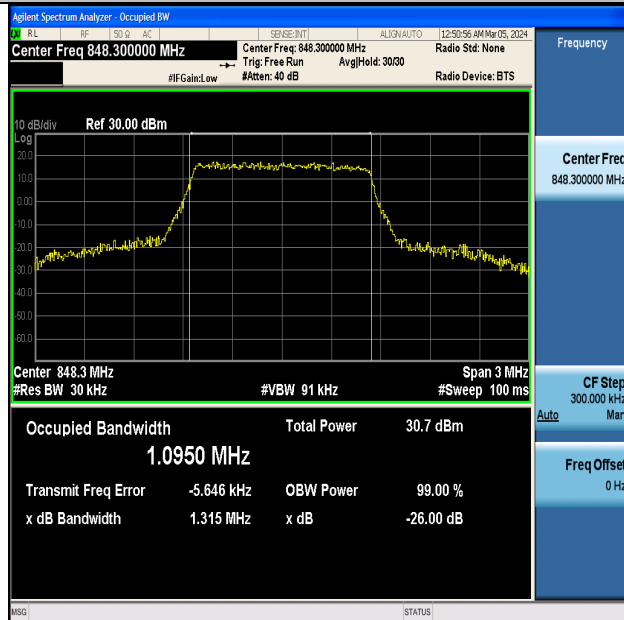
Band5-1.4MHz-QPSK-20525-6RB#0-PASS



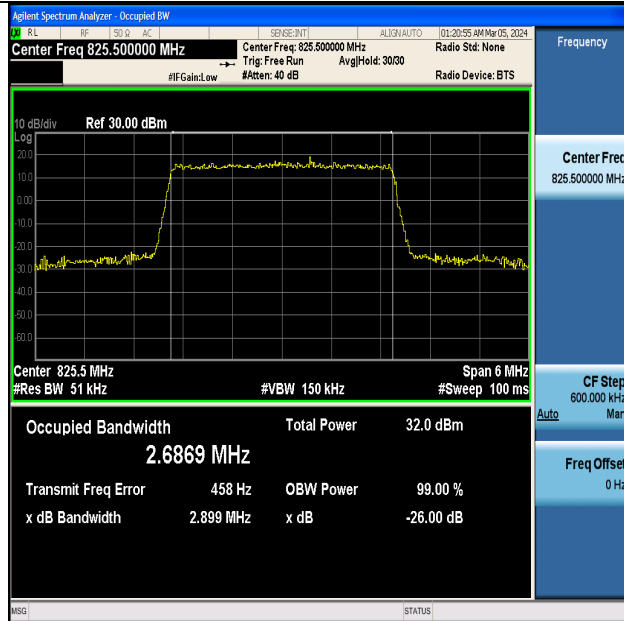
Band5-1.4MHz-16QAM-20525-6RB#0-PASS



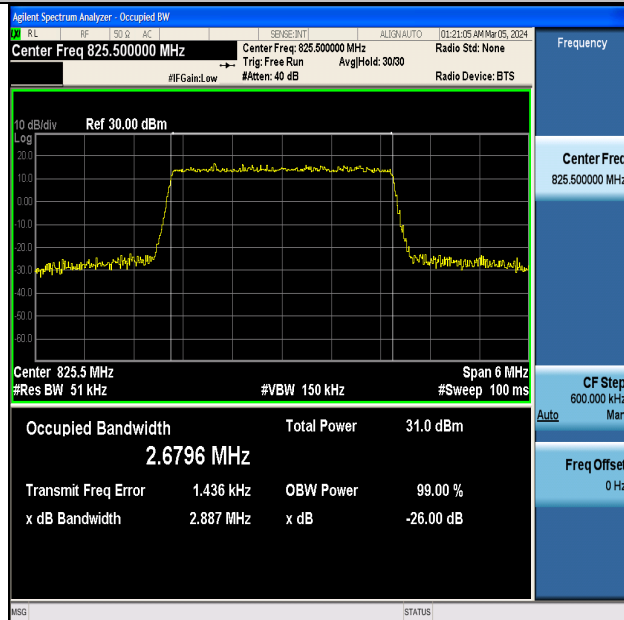
Band5-1.4MHz-QPSK-20643-6RB#0-PASS



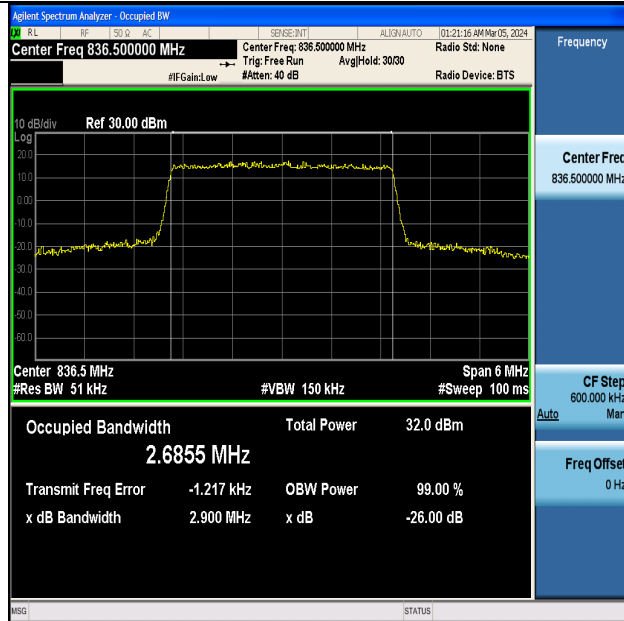
Band5-1.4MHz-16QAM-20643-6RB#0-PASS



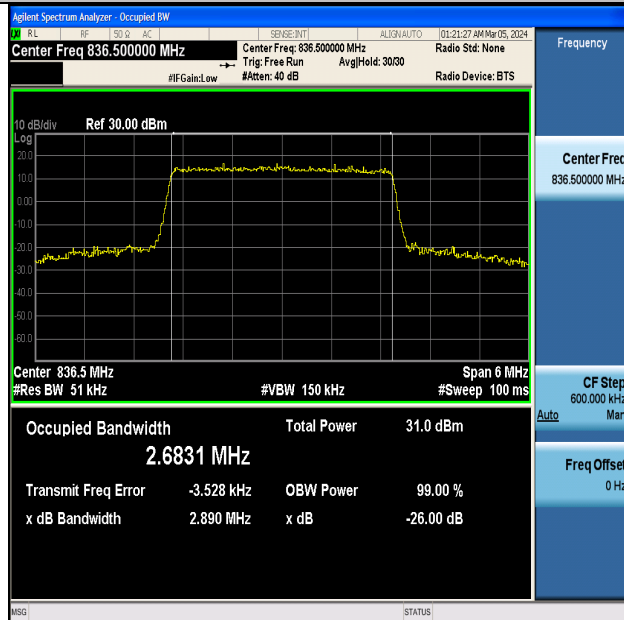
Band5-3MHz-QPSK-20415-15RB#0-PASS



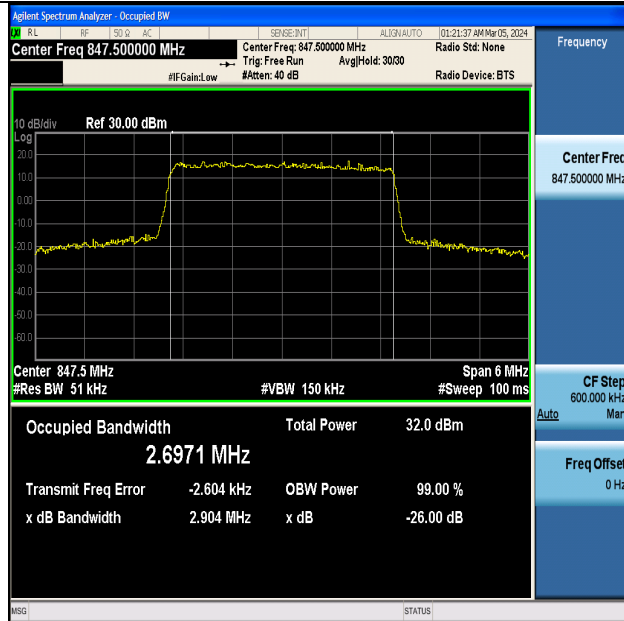
Band5-3MHz-16QAM-20415-15RB#0-PASS



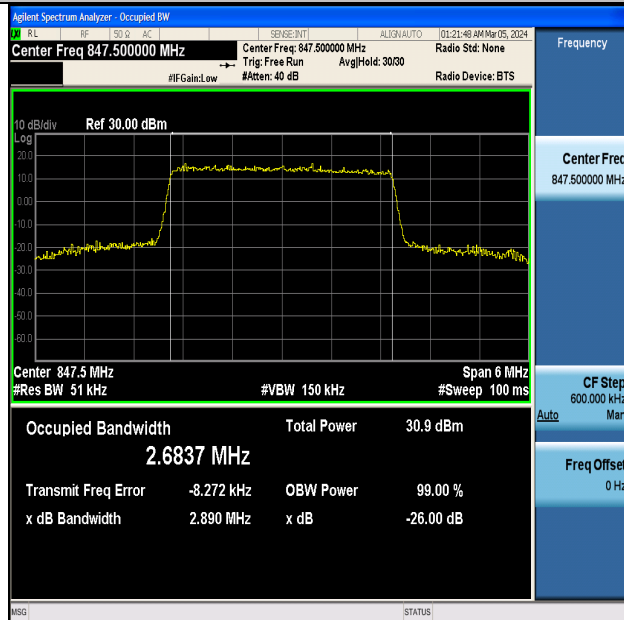
Band5-3MHz-QPSK-20525-15RB#0-PASS



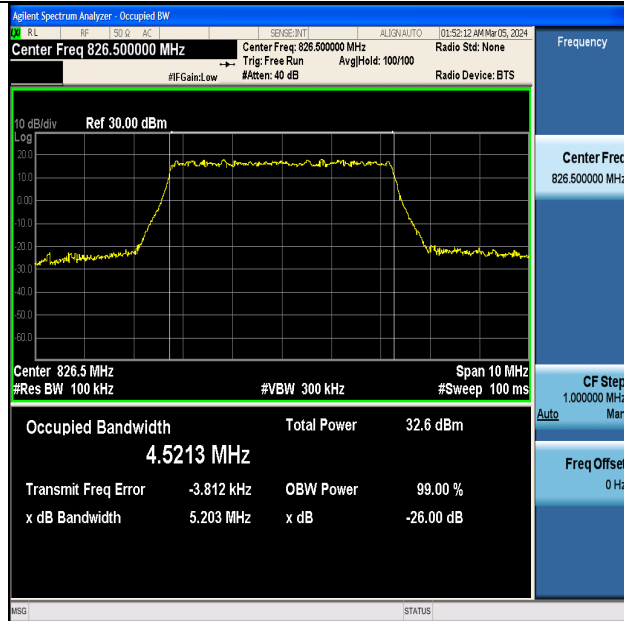
Band5-3MHz-16QAM-20525-15RB#0-PASS



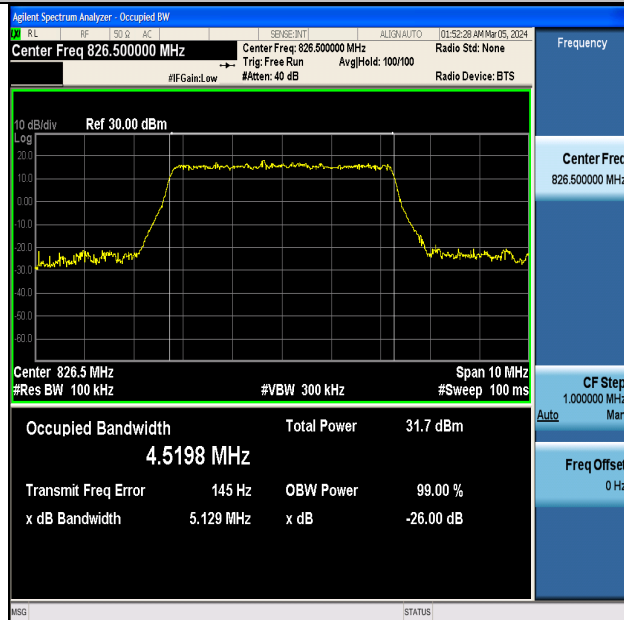
Band5-3MHz-QPSK-20635-15RB#0-PASS



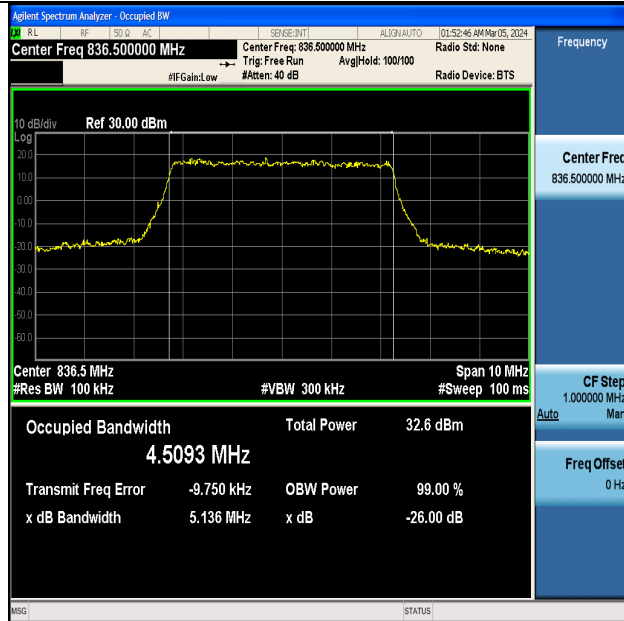
Band5-3MHz-16QAM-20635-15RB#0-PASS



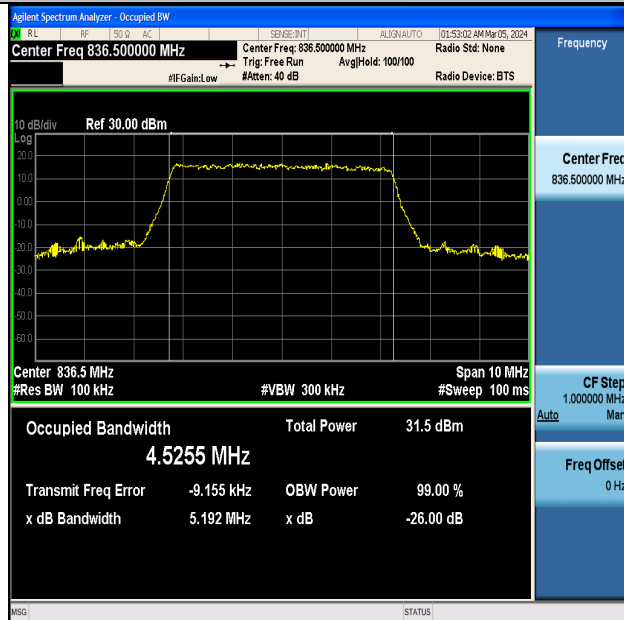
Band5-5MHz-QPSK-20425-25RB#0-PASS



Band5-5MHz-16QAM-20425-25RB#0-PASS



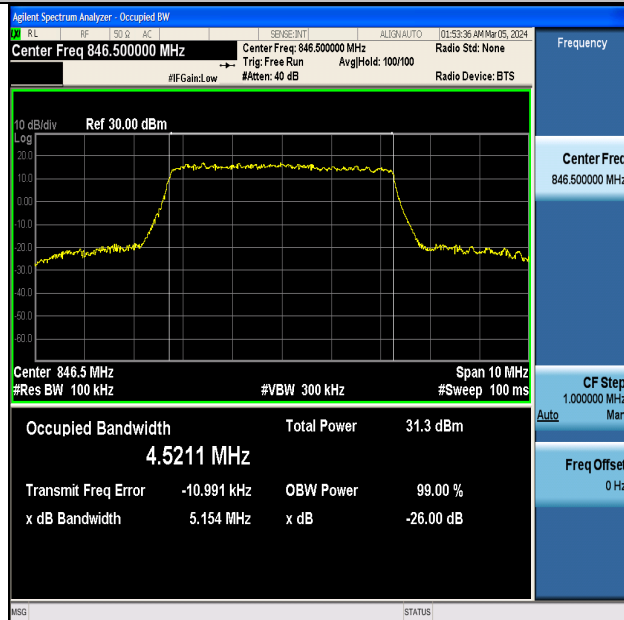
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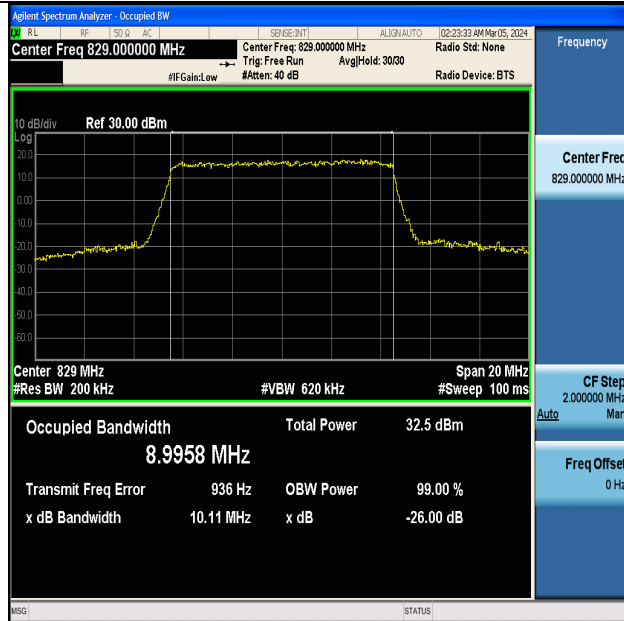
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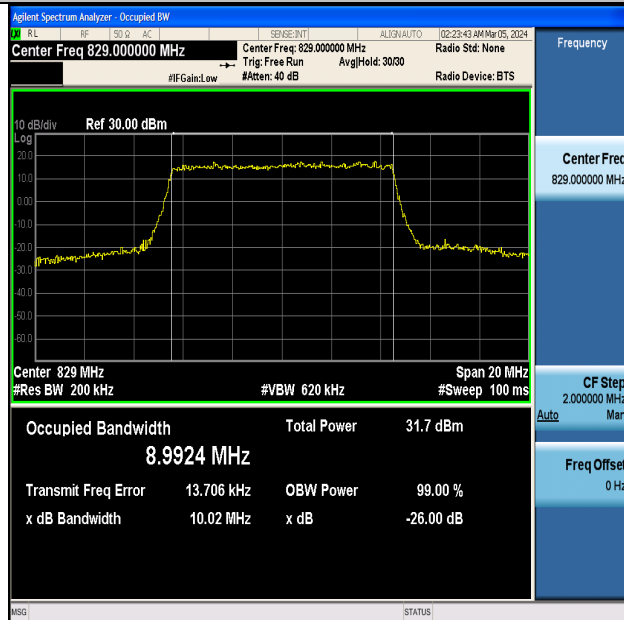
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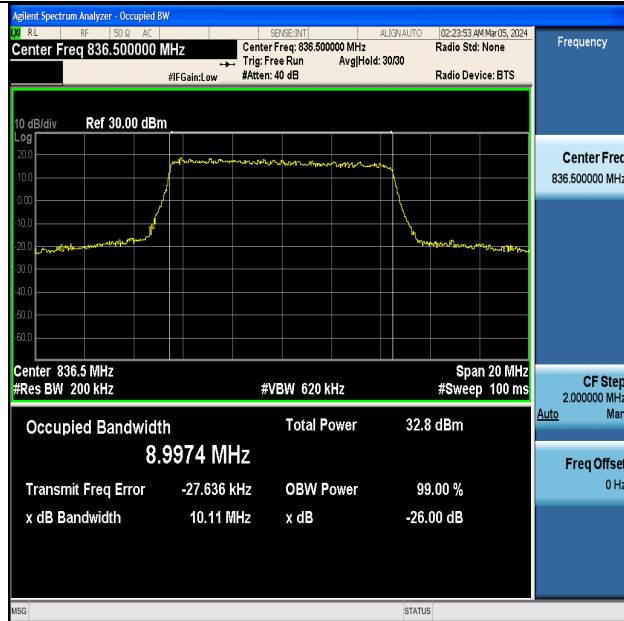
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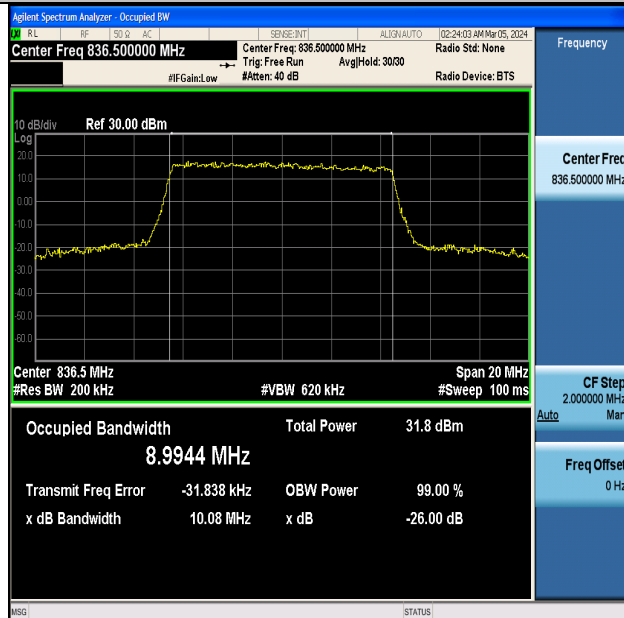
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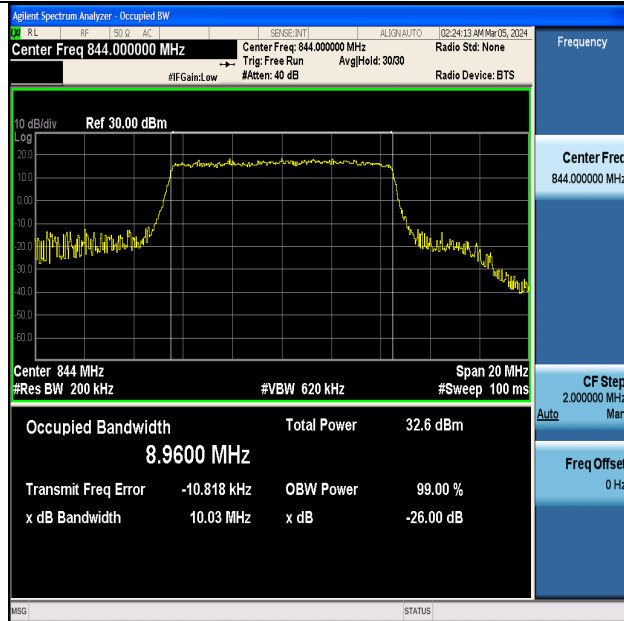
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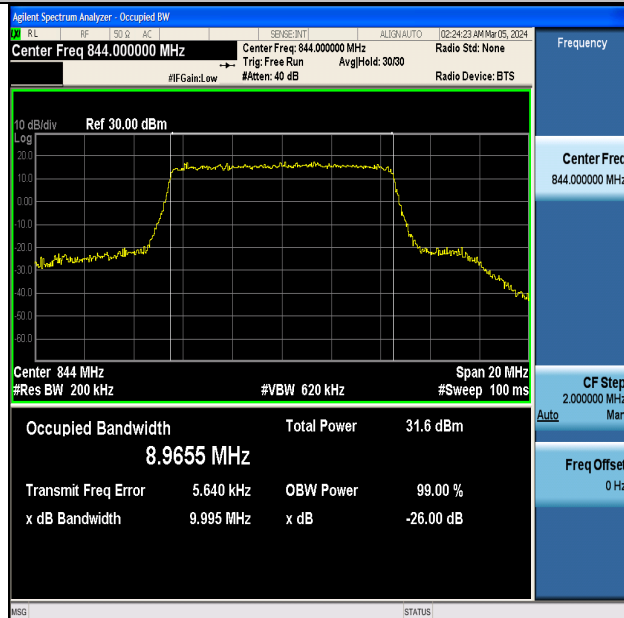
Band5-10MHz-QPSK-20525-50RB#0-PASS



Band5-10MHz-16QAM-20525-50RB#0-PASS



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



Band5-10MHz-16QAM-20600-50RB#0-PASS

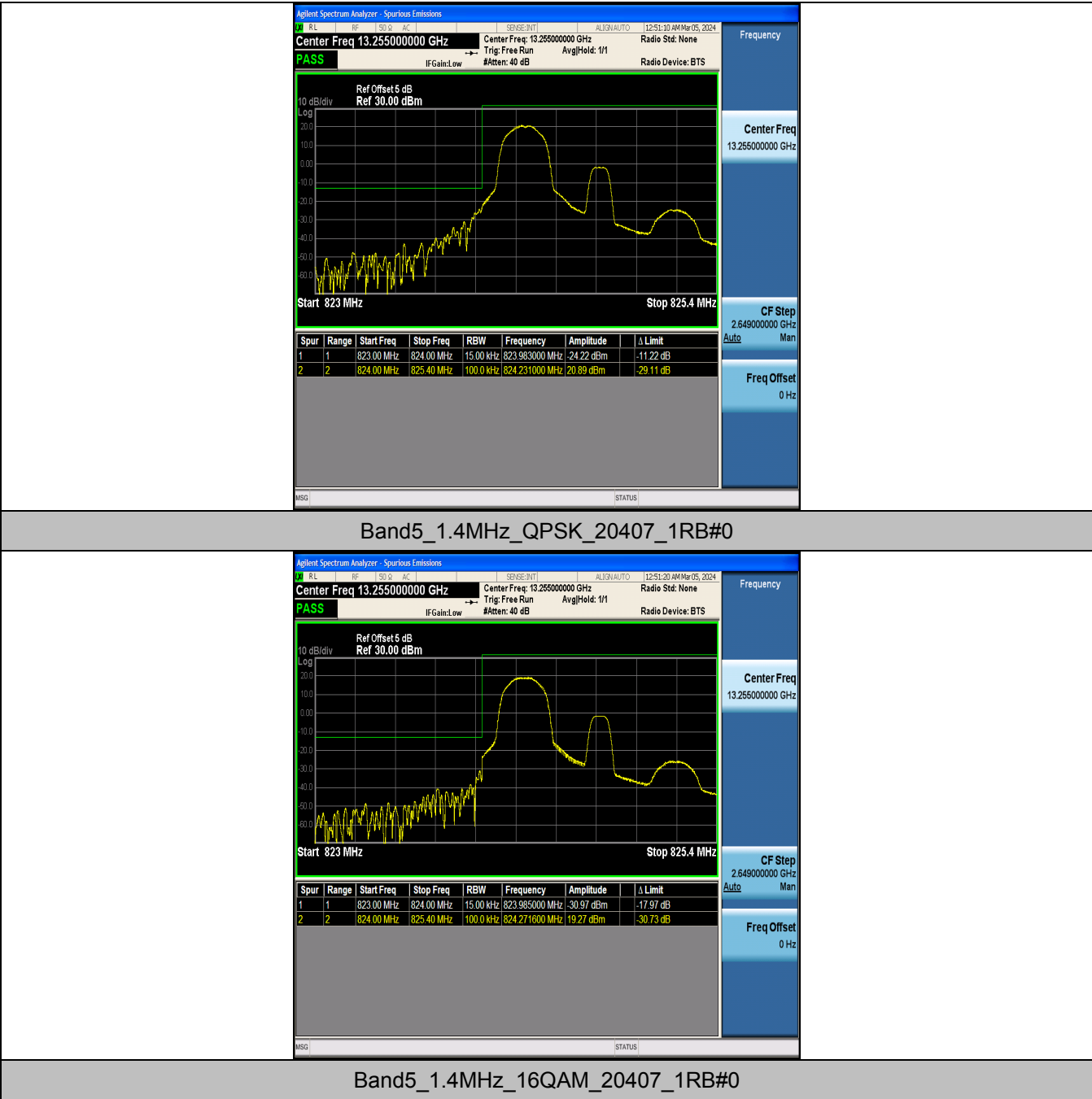
1.4. Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-24.22	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-30.97	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	-40.10	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	-43.43	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-30.35	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-33.95	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	-42.36	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	-45.20	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-30.10	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-24.12	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-25.04	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-27.07	PASS
Band5	3MHz	QPSK	20415	1RB#0	-25.56	PASS
Band5	3MHz	16QAM	20415	1RB#0	-26.51	PASS
Band5	3MHz	QPSK	20415	1RB#14	-49.53	PASS
Band5	3MHz	16QAM	20415	1RB#14	-50.34	PASS
Band5	3MHz	QPSK	20415	15RB#0	-33.58	PASS
Band5	3MHz	16QAM	20415	15RB#0	-36.74	PASS
Band5	3MHz	QPSK	20635	1RB#0	-52.00	PASS
Band5	3MHz	16QAM	20635	1RB#0	-52.16	PASS
Band5	3MHz	QPSK	20635	1RB#14	-23.84	PASS
Band5	3MHz	16QAM	20635	1RB#14	-26.86	PASS
Band5	3MHz	QPSK	20635	15RB#0	-29.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	-33.01	PASS
Band5	5MHz	QPSK	20425	1RB#0	-23.09	PASS
Band5	5MHz	16QAM	20425	1RB#0	-23.35	PASS
Band5	5MHz	QPSK	20425	1RB#24	-49.67	PASS
Band5	5MHz	16QAM	20425	1RB#24	-49.49	PASS
Band5	5MHz	QPSK	20425	25RB#0	-30.75	PASS
Band5	5MHz	16QAM	20425	25RB#0	-33.54	PASS
Band5	5MHz	QPSK	20625	1RB#0	-50.65	PASS
Band5	5MHz	16QAM	20625	1RB#0	-50.96	PASS
Band5	5MHz	QPSK	20625	1RB#24	-22.76	PASS

Band5	5MHz	16QAM	20625	1RB#24	-24.17	PASS
Band5	5MHz	QPSK	20625	25RB#0	-30.26	PASS
Band5	5MHz	16QAM	20625	25RB#0	-31.86	PASS
Band5	10MHz	QPSK	20450	1RB#0	-33.07	PASS
Band5	10MHz	16QAM	20450	1RB#0	-34.17	PASS
Band5	10MHz	QPSK	20450	1RB#49	-49.66	PASS
Band5	10MHz	16QAM	20450	1RB#49	-49.79	PASS
Band5	10MHz	QPSK	20450	50RB#0	-32.24	PASS
Band5	10MHz	16QAM	20450	50RB#0	-35.09	PASS
Band5	10MHz	QPSK	20600	1RB#0	-49.84	PASS
Band5	10MHz	16QAM	20600	1RB#0	-50.07	PASS
Band5	10MHz	QPSK	20600	1RB#49	-34.02	PASS
Band5	10MHz	16QAM	20600	1RB#49	-34.98	PASS
Band5	10MHz	QPSK	20600	50RB#0	-34.23	PASS
Band5	10MHz	16QAM	20600	50RB#0	-36.46	PASS

Test Graphs



Agilent Spectrum Analyzer - Spurious Emissions

RF

Center Freq 13.255000000 GHz

PASS

IF Gain: Low

#Atten: 40 dB

Center Freq: 13.255000000 GHz

Trig: Free Run

Avg/Hold: 1/1

Radio Stat: None

Radio Device: BTS

12:51:20 AM Mar 05, 2024

ALIGN: AUTO

Frequency

Center Freq
13.255000000 GHz

CF Step
2.649000000 GHz
Auto Man

Freq Offset
0 Hz

10 dB/div

Ref Offset 5 dB

Ref 30.00 dBm

Log

Start 823 MHz

Stop 825.4 MHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	823.00 MHz	824.00 MHz	15.00 kHz	823.985000 MHz	-30.97 dBm	-17.97 dB
2	2	824.00 MHz	825.40 MHz	100.0 kHz	824.271600 MHz	19.27 dBm	-30.73 dB

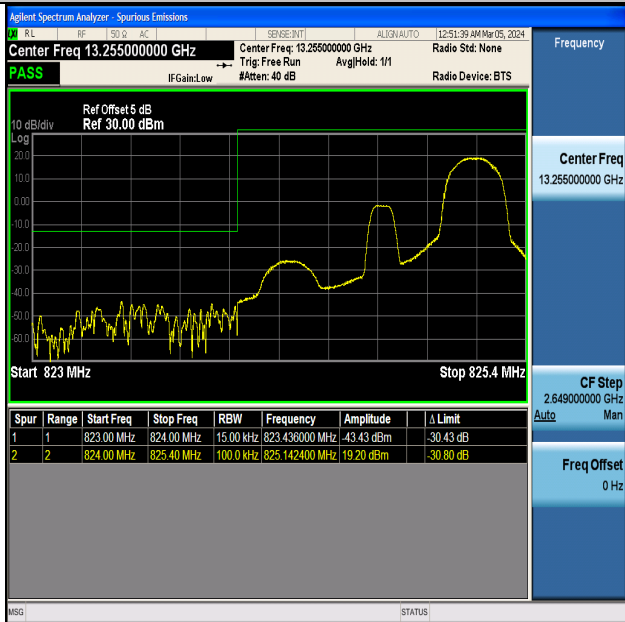
MSG

STATUS

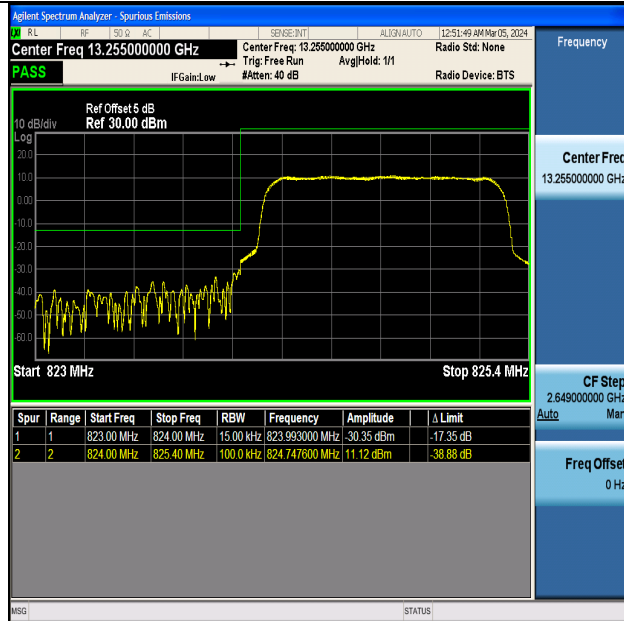
Band5_1.4MHz_16QAM_20407_1RB#0



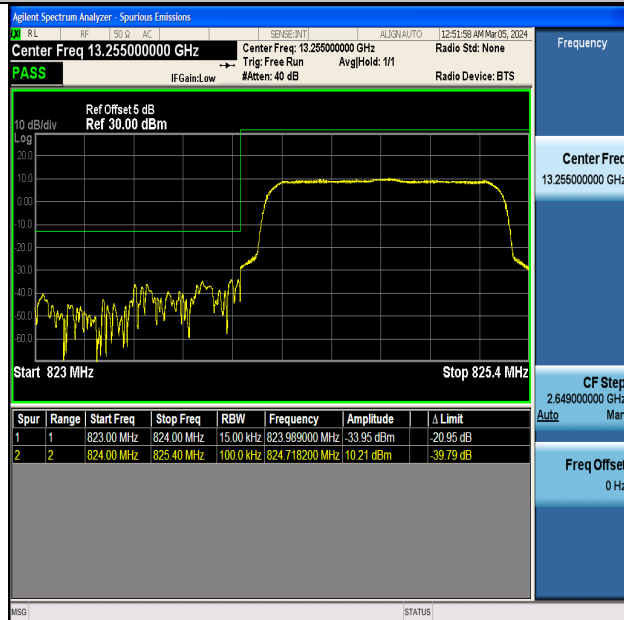
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Band5_1.4MHz_16QAM_20407_1RB#5



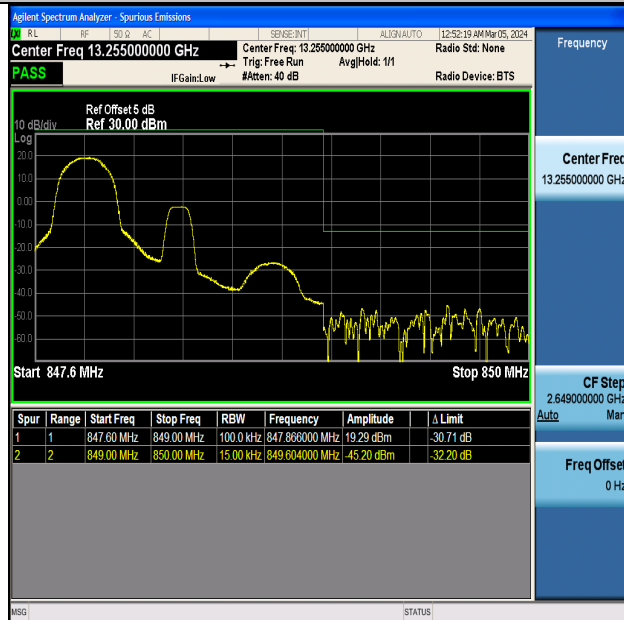
Band5_1.4MHz_QPSK_20407_6RB#0



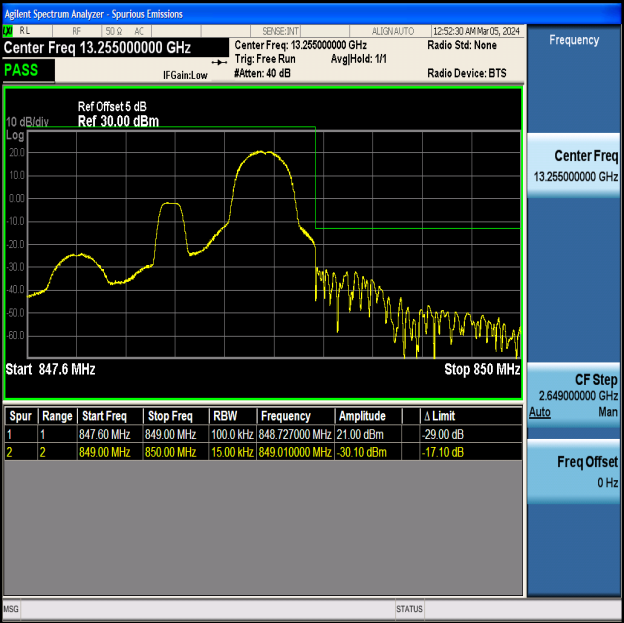
Band5_1.4MHz_16QAM_20407_6RB#0



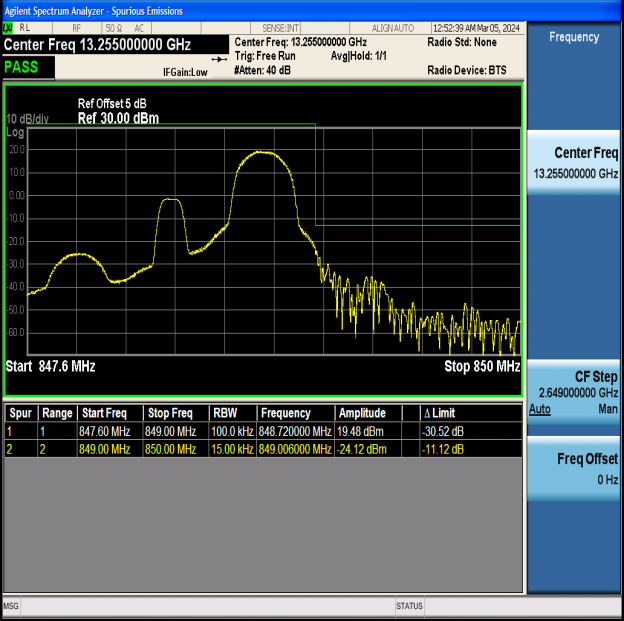
Band5_1.4MHz_QPSK_20643_1RB#0



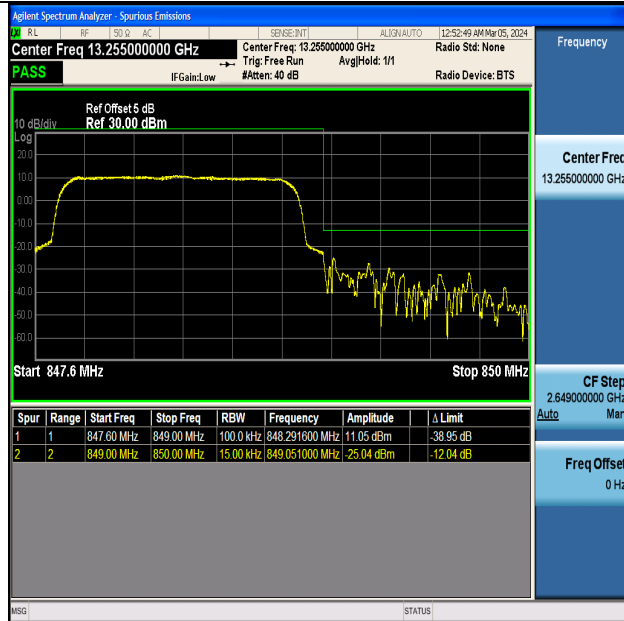
Band5_1.4MHz_16QAM_20643_1RB#0



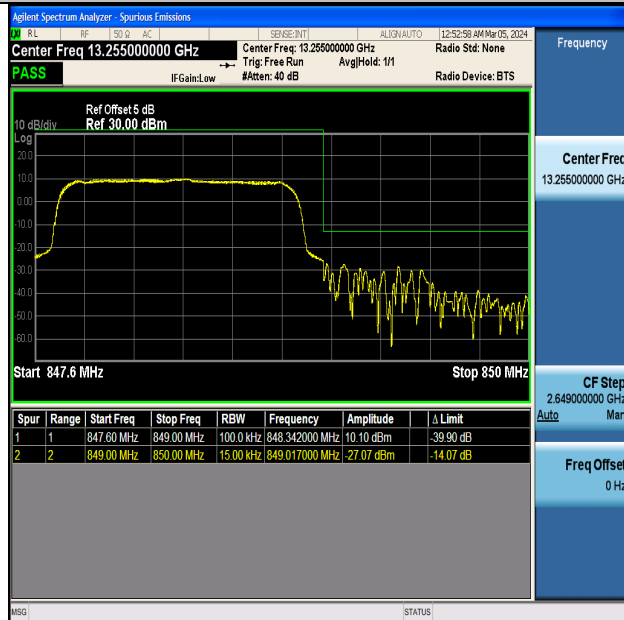
Band5_1.4MHz_QPSK_20643_1RB#5



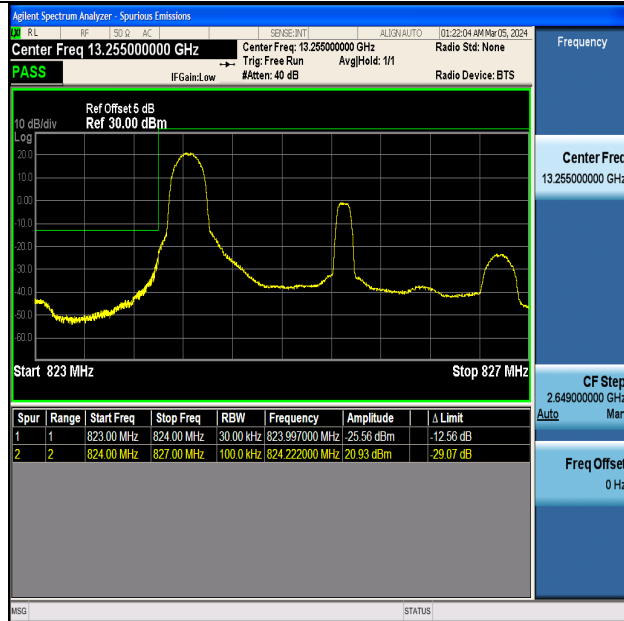
Band5_1.4MHz_16QAM_20643_1RB#5



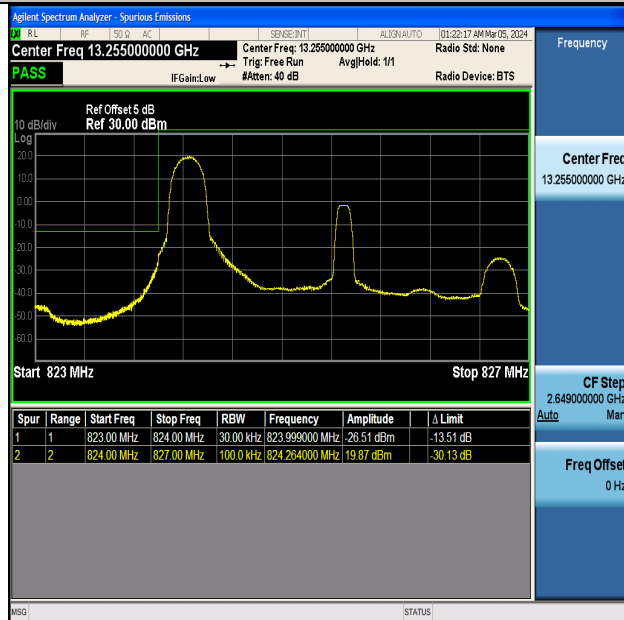
Band5_1.4MHz_QPSK_20643_6RB#0



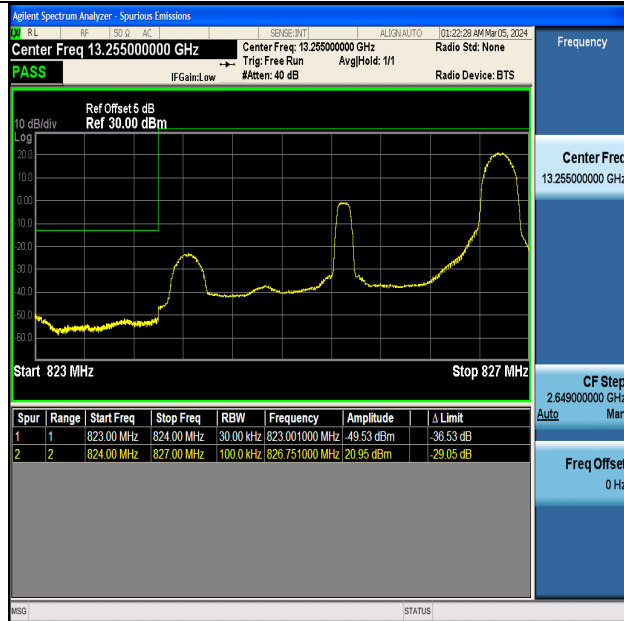
Band5_1.4MHz_16QAM_20643_6RB#0



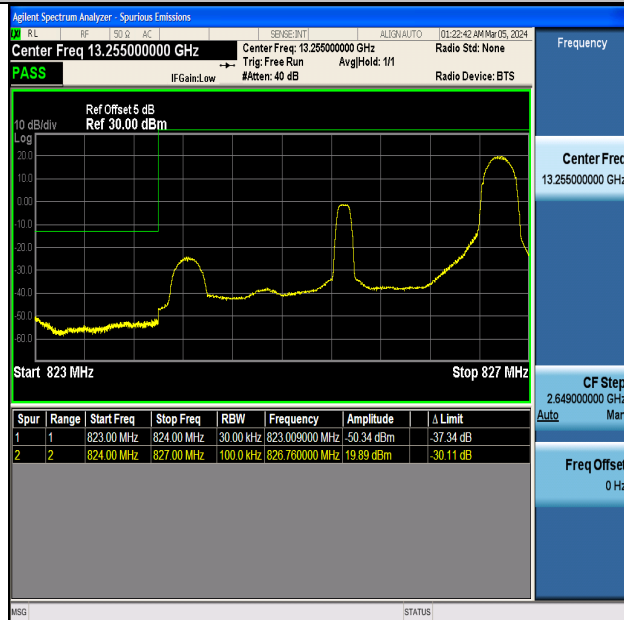
Band5_3MHz_QPSK_20415_1RB#0



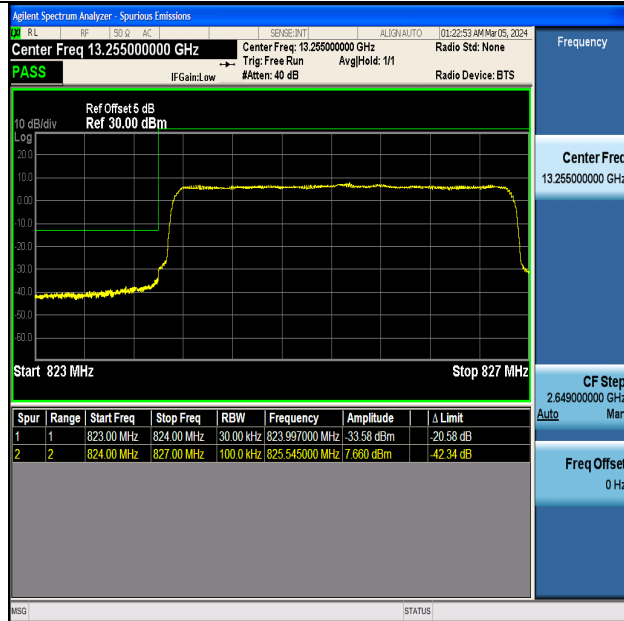
Band5_3MHz_16QAM_20415_1RB#0



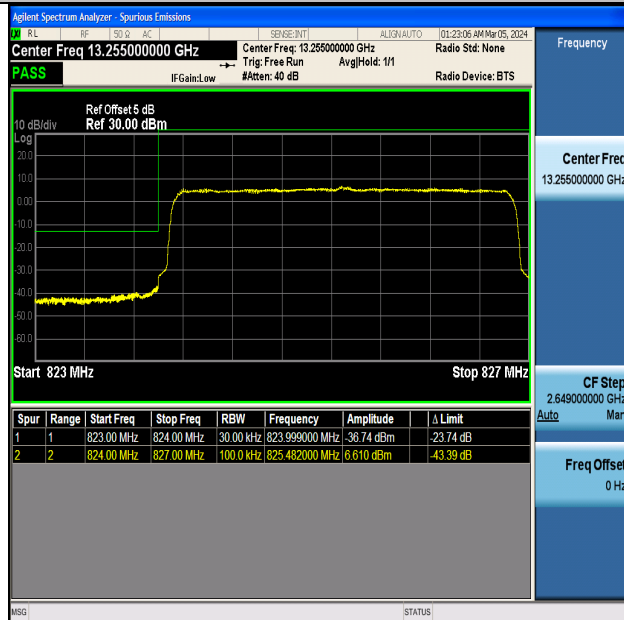
Band5_3MHz_QPSK_20415_1RB#14



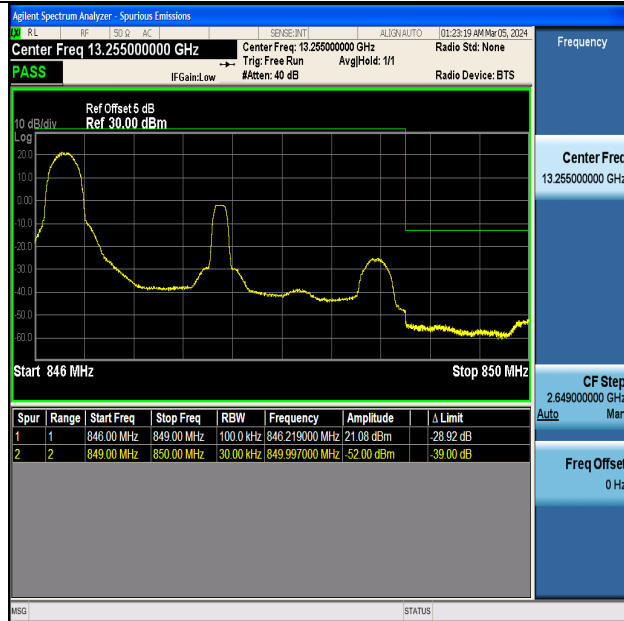
Band5_3MHz_16QAM_20415_1RB#14



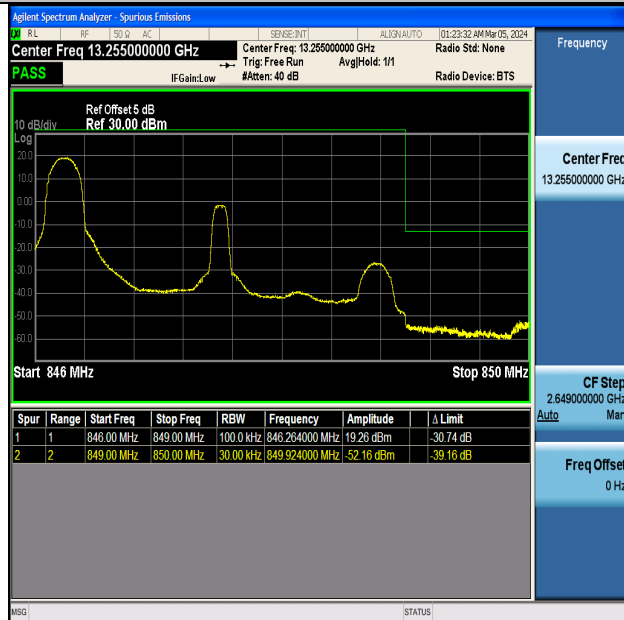
Band5_3MHz_QPSK_20415_15RB#0



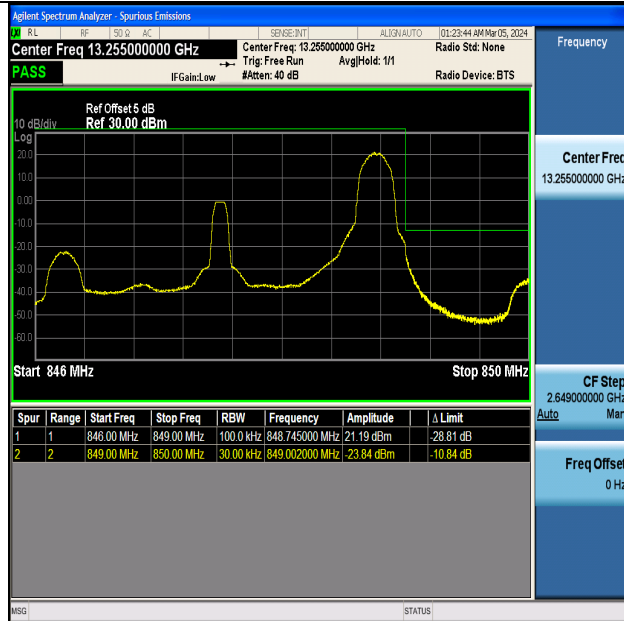
Band5_3MHz_16QAM_20415_15RB#0



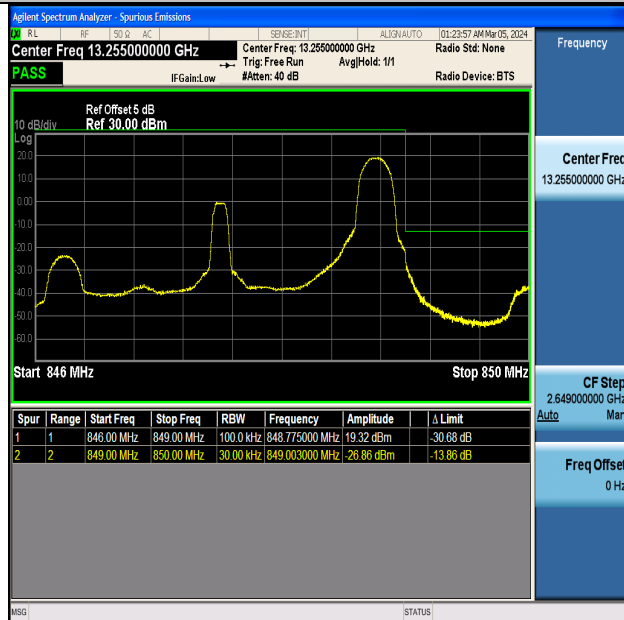
Band5_3MHz_QPSK_20635_1RB#0



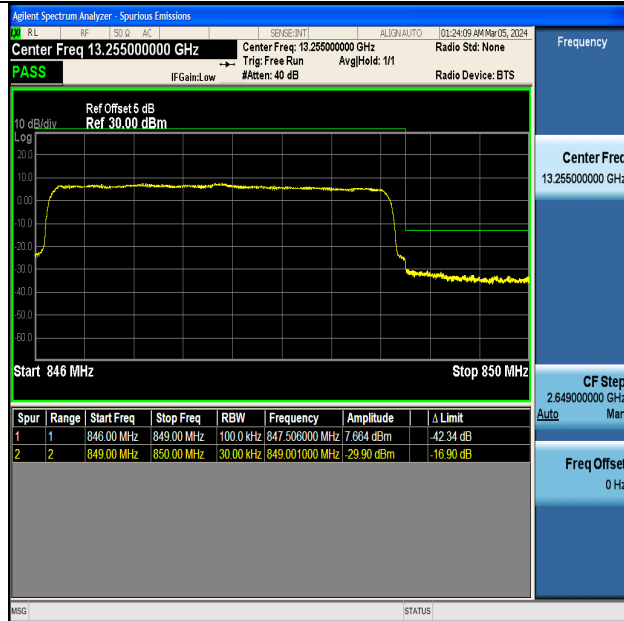
Band5_3MHz_16QAM_20635_1RB#0



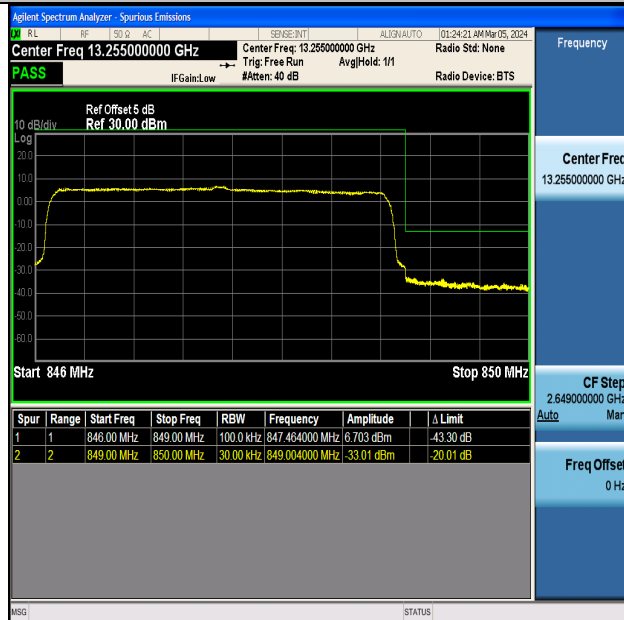
Band5_3MHz_QPSK_20635_1RB#14



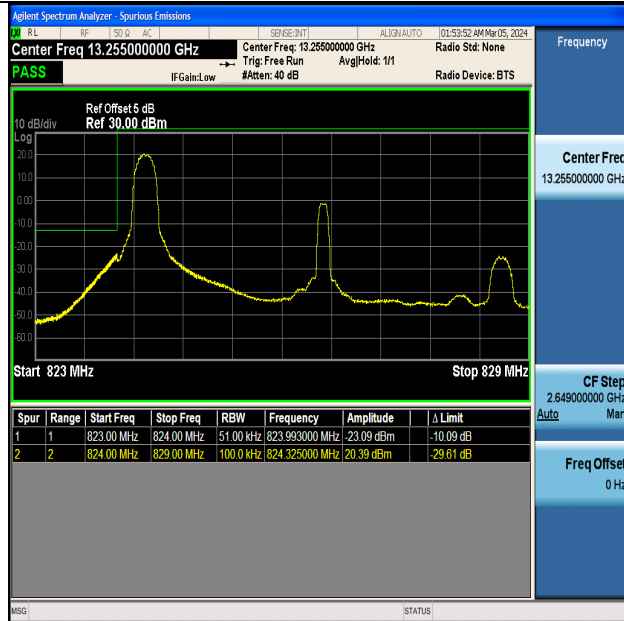
Band5_3MHz_16QAM_20635_1RB#14



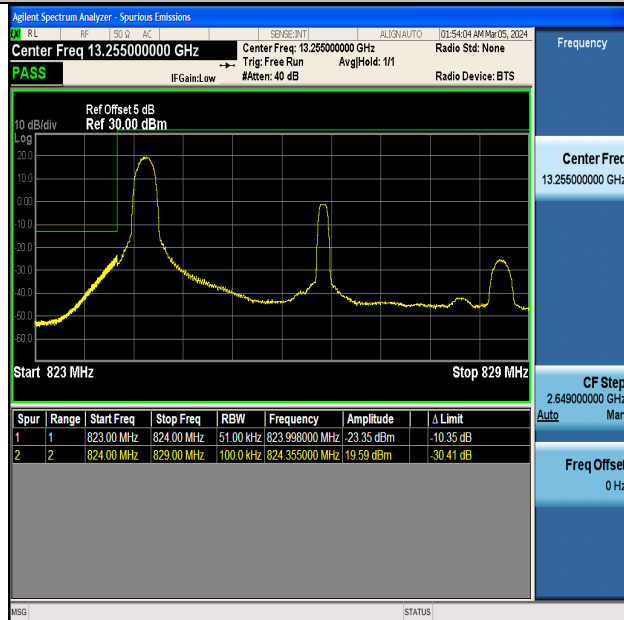
Band5_3MHz_QPSK_20635_15RB#0



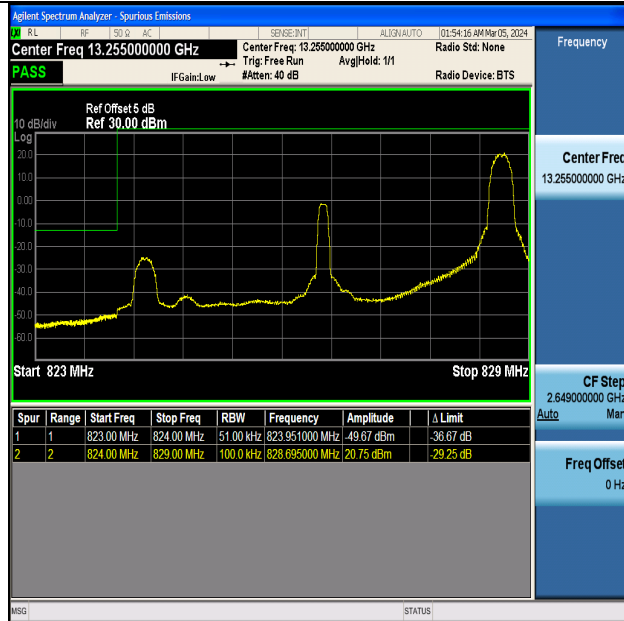
Band5_3MHz_16QAM_20635_15RB#0



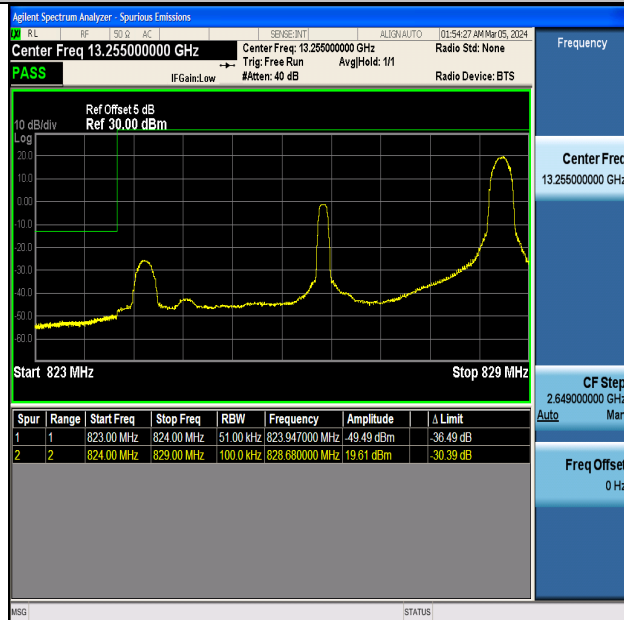
Band5_5MHz_QPSK_20425_1RB#0



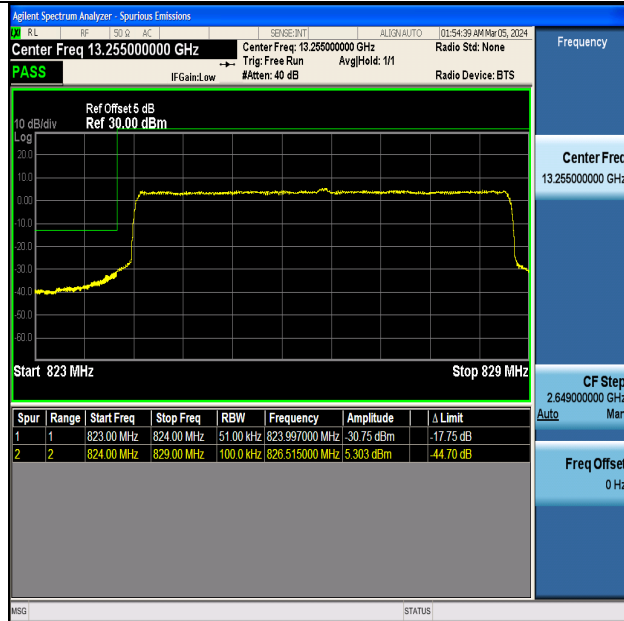
Band5_5MHz_16QAM_20425_1RB#0



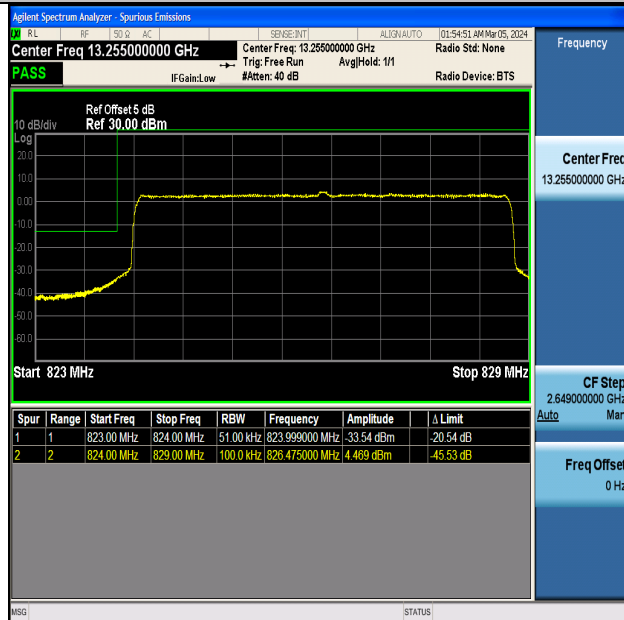
Band5_5MHz_QPSK_20425_1RB#24



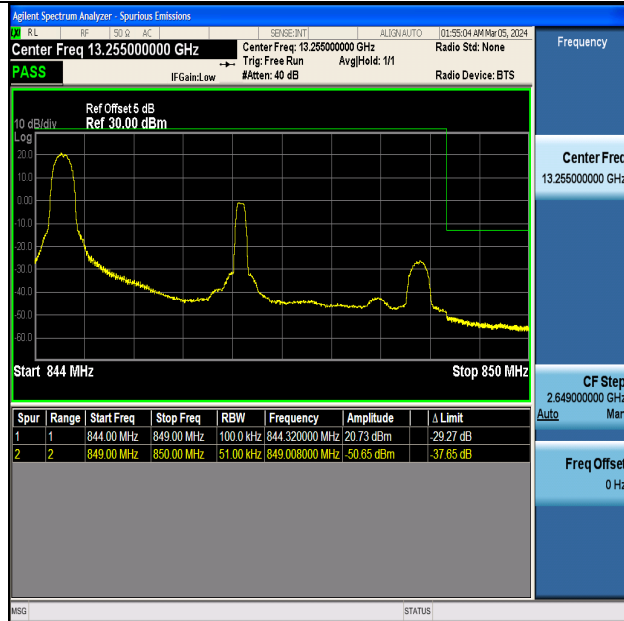
Band5_5MHz_16QAM_20425_1RB#24



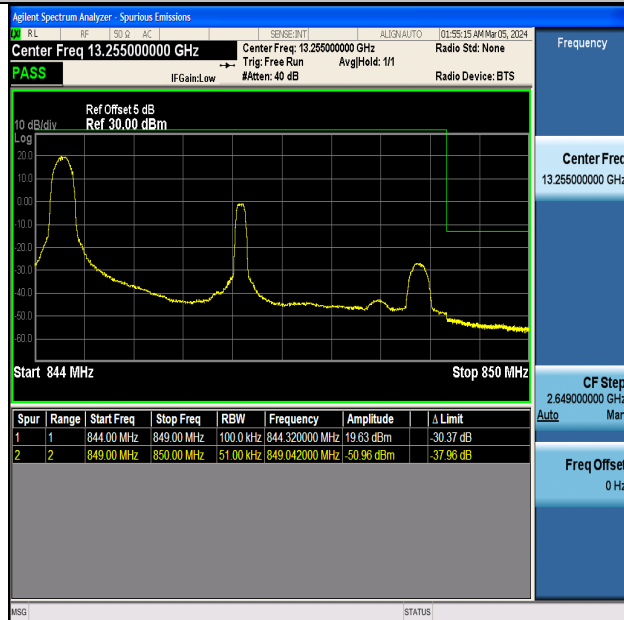
Band5_5MHz_QPSK_20425_25RB#0



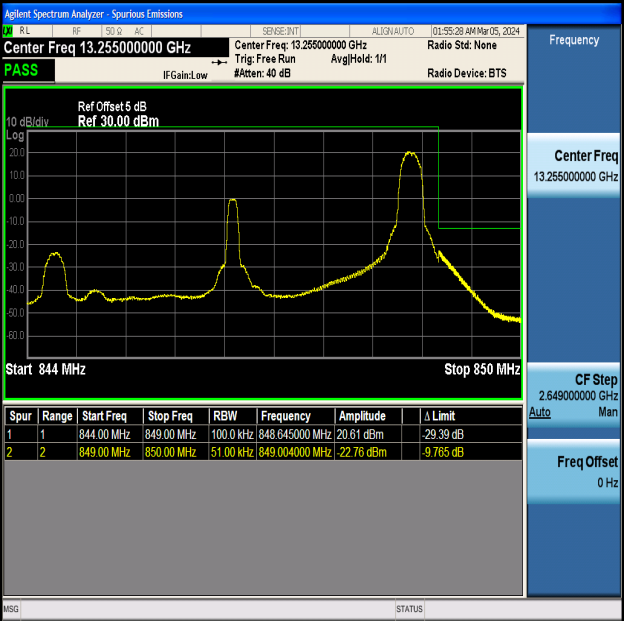
Band5_5MHz_16QAM_20425_25RB#0



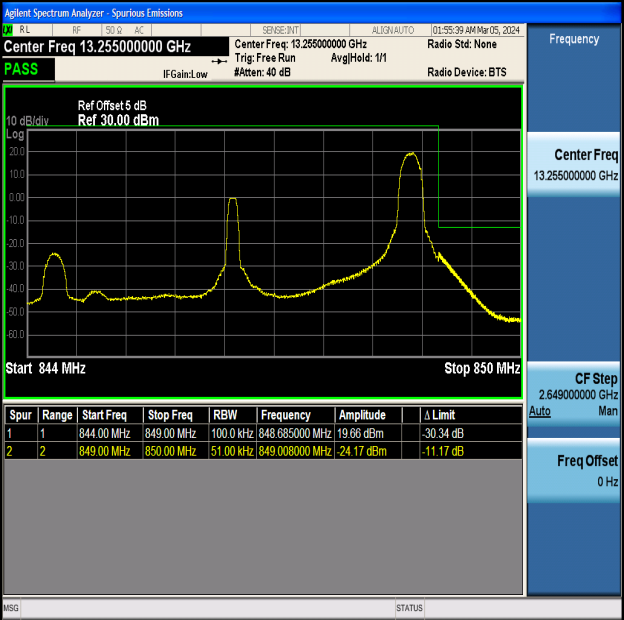
Band5_5MHz_QPSK_20625_1RB#0



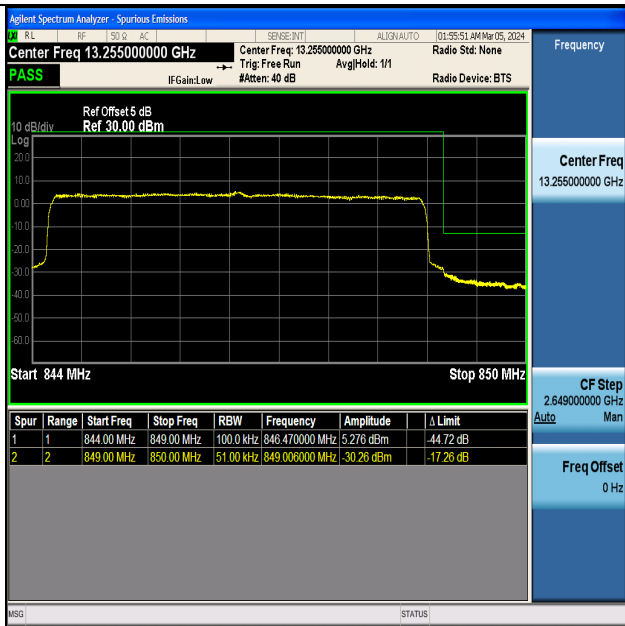
Band5_5MHz_16QAM_20625_1RB#0



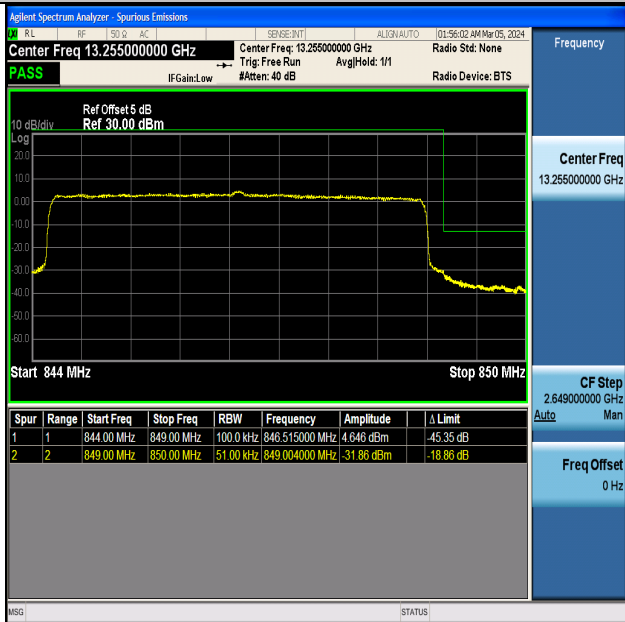
Band5_5MHz_QPSK_20625_1RB#24



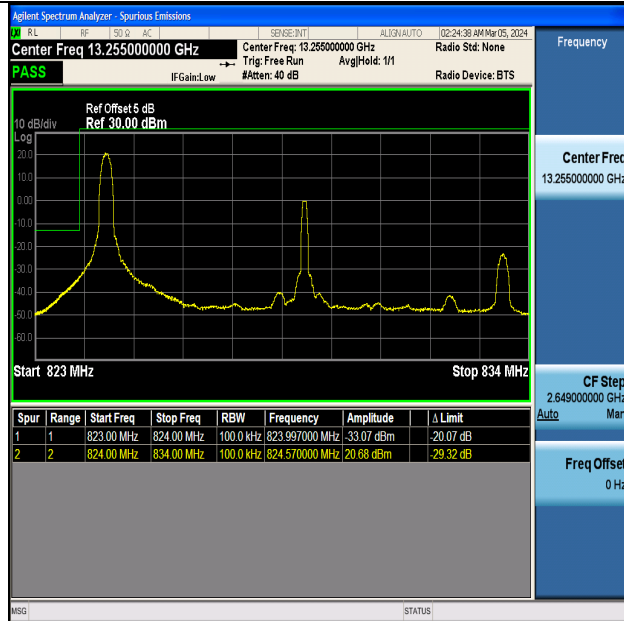
Band5_5MHz_16QAM_20625_1RB#24



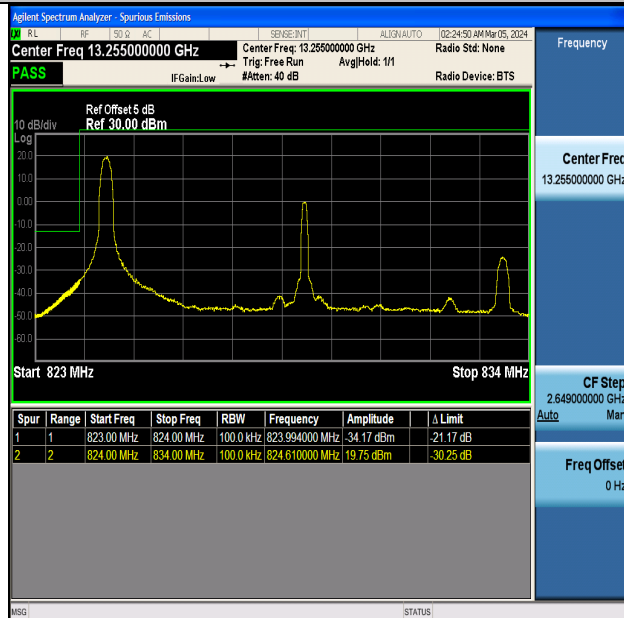
Band5_5MHz_QPSK_20625_25RB#0



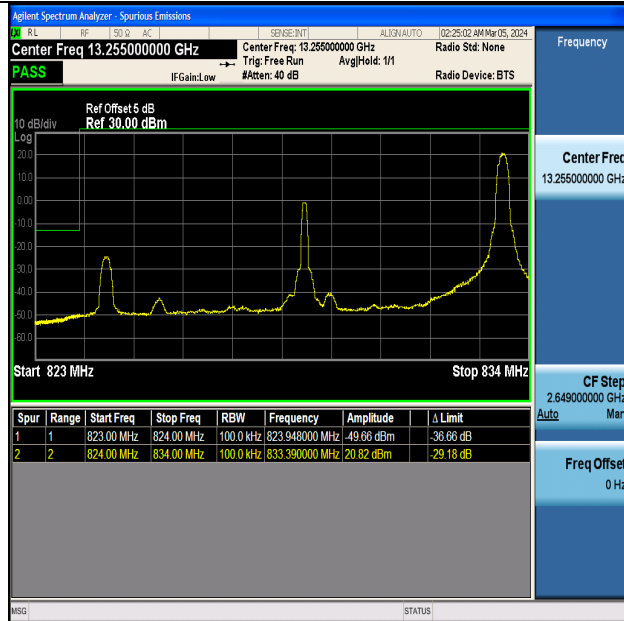
Band5_5MHz_16QAM_20625_25RB#0



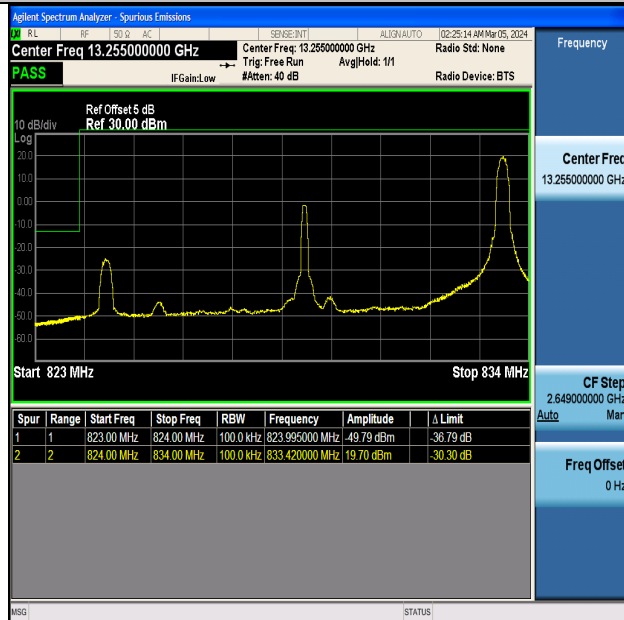
Band5_10MHz_QPSK_20450_1RB#0



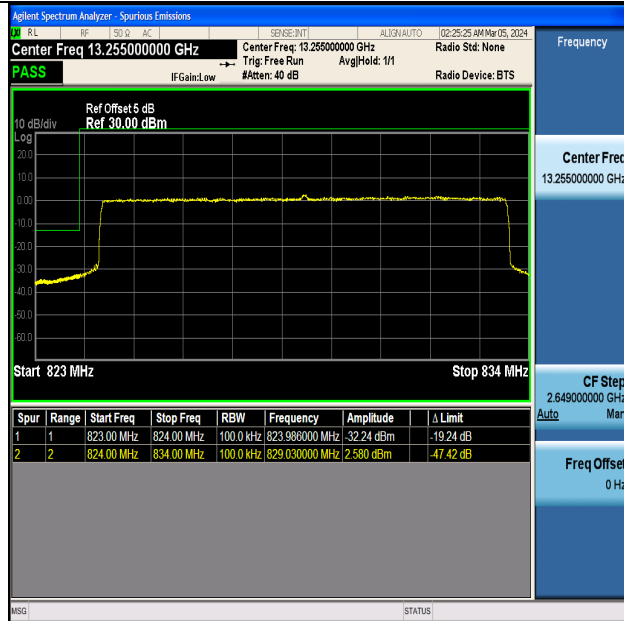
Band5_10MHz_16QAM_20450_1RB#0



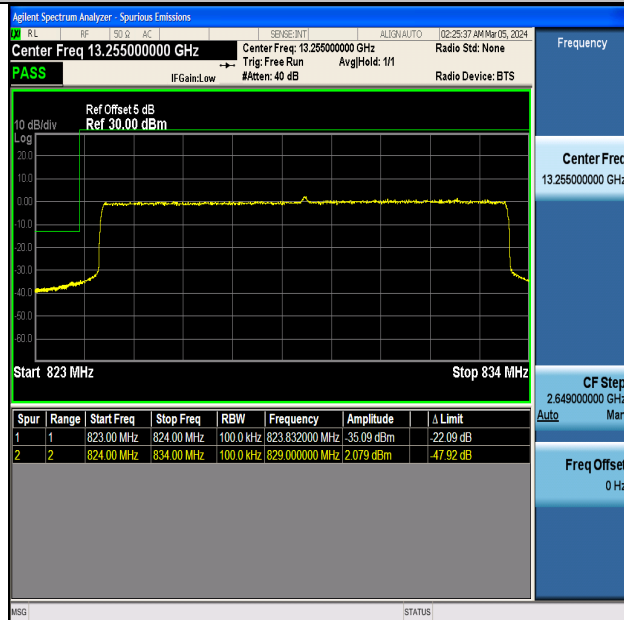
Band5_10MHz_QPSK_20450_1RB#49



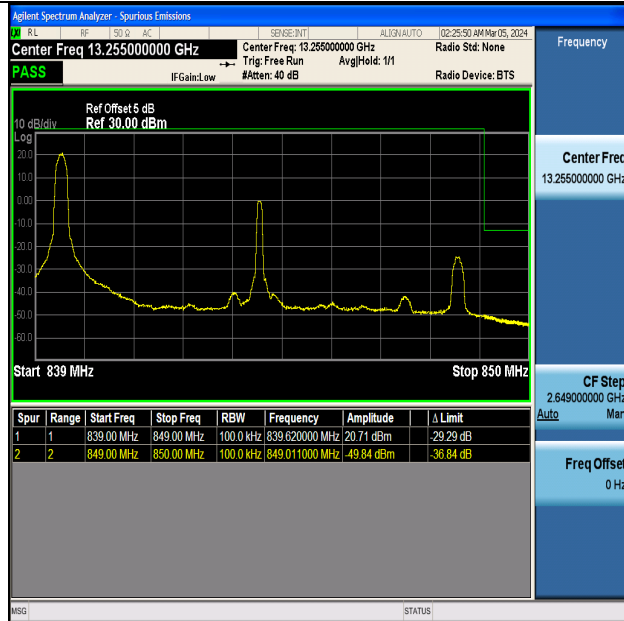
Band5_10MHz_16QAM_20450_1RB#49



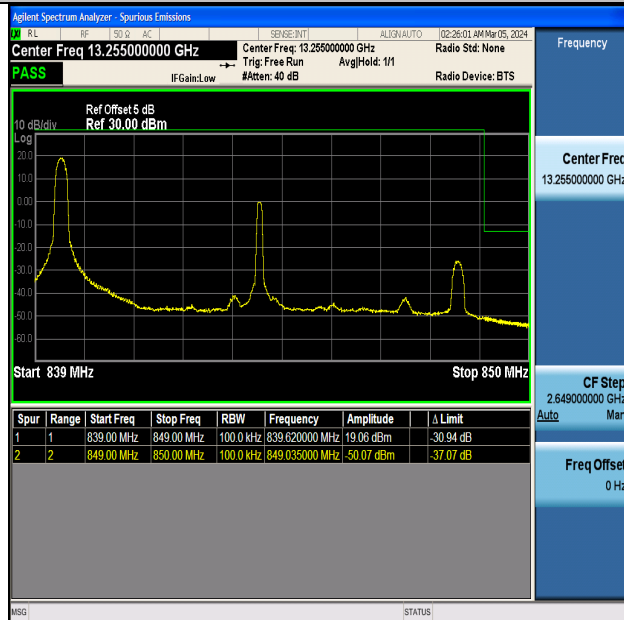
Band5_10MHz_QPSK_20450_50RB#0



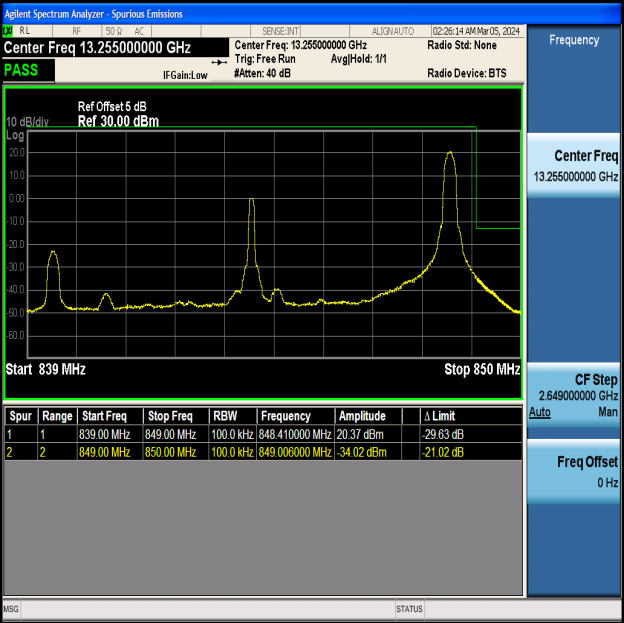
Band5_10MHz_16QAM_20450_50RB#0



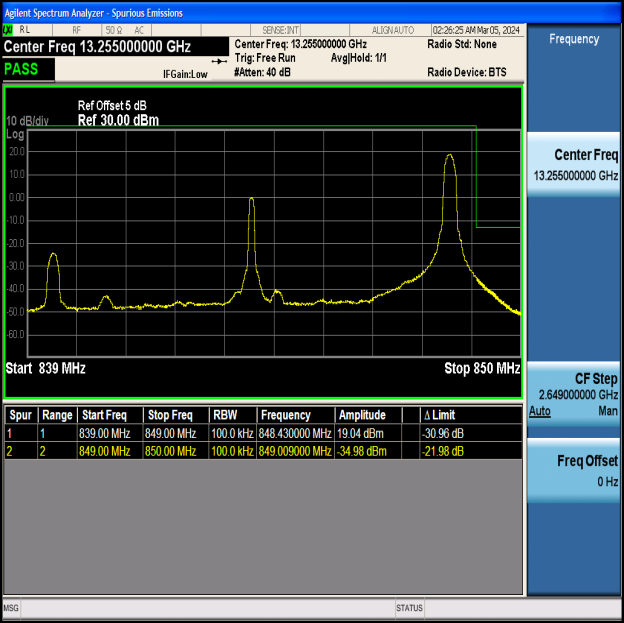
Band5_10MHz_QPSK_20600_1RB#0



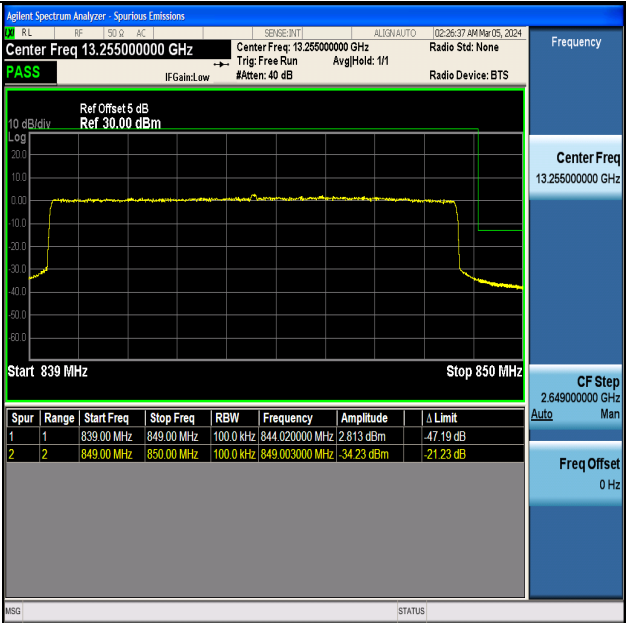
Band5_10MHz_16QAM_20600_1RB#0



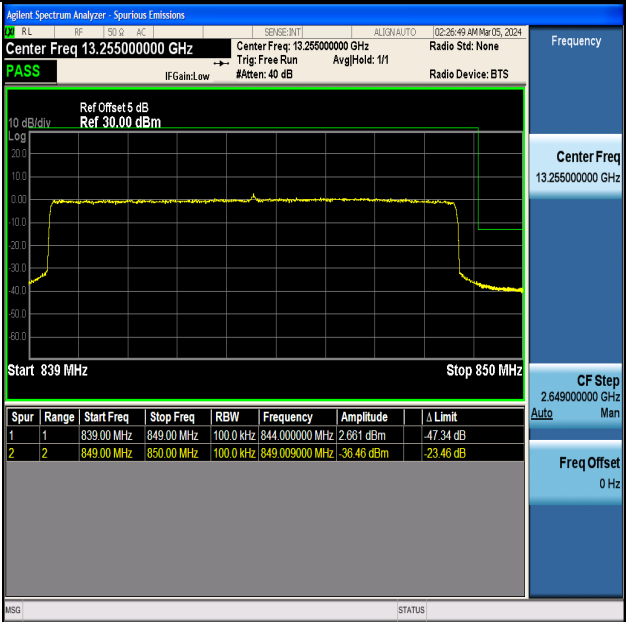
Band5_10MHz_QPSK_20600_1RB#49



Band5_10MHz_16QAM_20600_1RB#49



Band5_10MHz_QPSK_20600_50RB#0



Band5_10MHz_16QAM_20600_50RB#0

1.5. Appendix E: Conducted Spurious Emission

Test Result

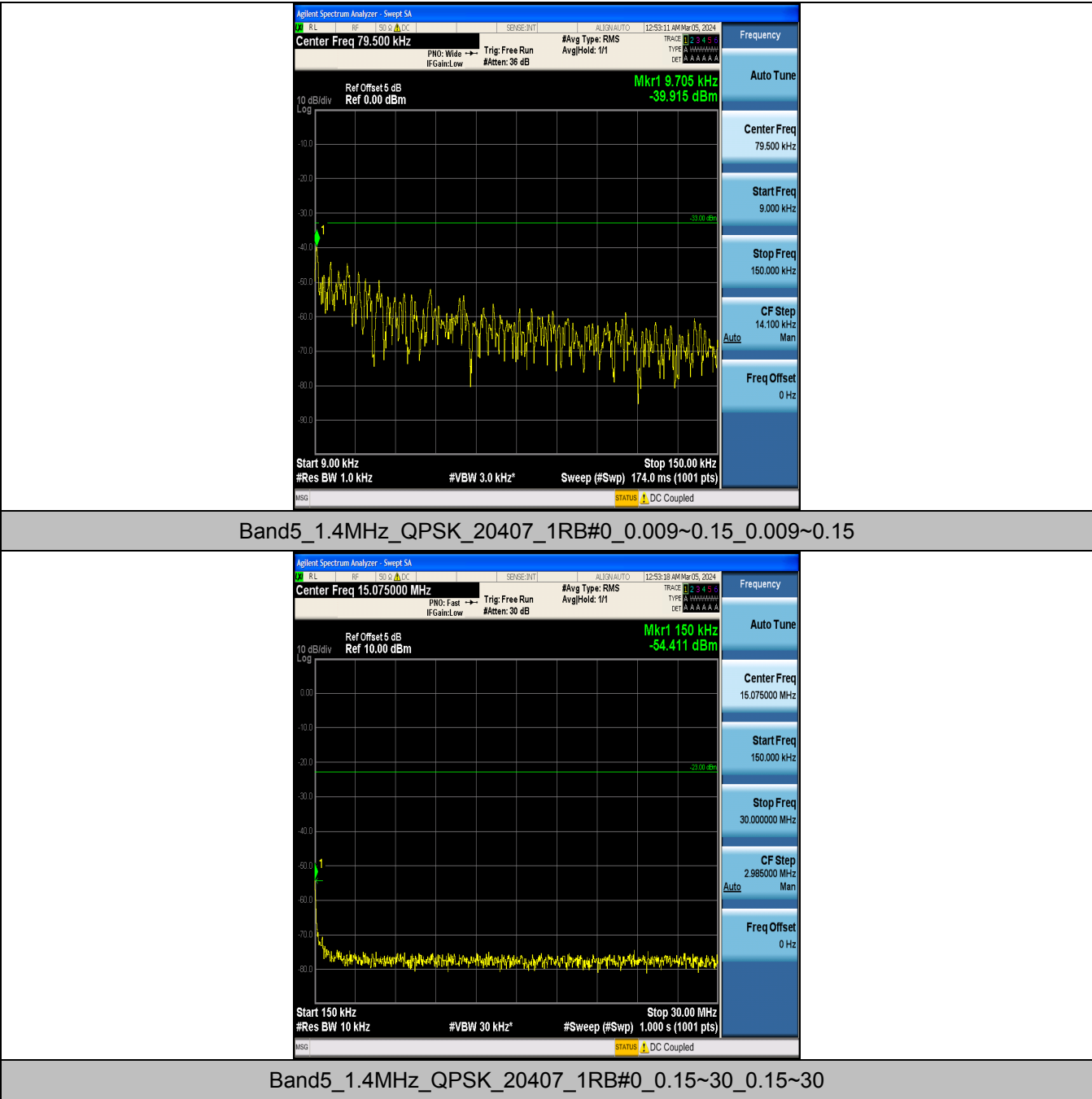
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	0.009~0.15	-39.92	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	0.15~30	-54.41	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	30~1000	-51.65	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	1000~3000	-38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#0	3000~10000	-50.40	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	0.009~0.15	-43.68	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	0.15~30	-52.54	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	30~1000	-51.62	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	1000~3000	-40.82	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	3000~10000	-50.21	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	0.009~0.15	-44.11	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	0.15~30	-54.49	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	30~1000	-50.12	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	1000~3000	-37.91	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	3000~10000	-50.57	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	0.009~0.15	-44.44	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	0.15~30	-53.07	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	30~1000	-51.10	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	1000~3000	-39.06	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	3000~10000	-49.94	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	0.009~0.15	-43.42	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	0.15~30	-53.51	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	30~1000	-49.85	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	1000~3000	-39.06	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	3000~10000	-50.20	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	0.009~0.15	-39.41	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	0.15~30	-54.48	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	30~1000	-50.56	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	1000~3000	-38.30	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	3000~10000	-49.88	PASS
Band5	3MHz	QPSK	20415	1RB#0	0.009~0.15	-40.56	PASS
Band5	3MHz	QPSK	20415	1RB#0	0.15~30	-53.35	PASS

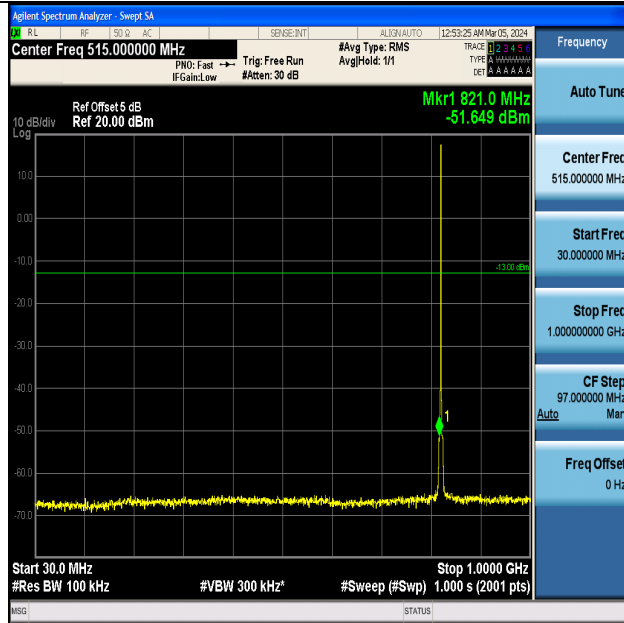
Band5	3MHz	QPSK	20415	1RB#0	30~1000	-59.28	PASS
Band5	3MHz	QPSK	20415	1RB#0	1000~3000	-38.11	PASS
Band5	3MHz	QPSK	20415	1RB#0	3000~10000	-50.46	PASS
Band5	3MHz	16QAM	20415	1RB#0	0.009~0.15	-43.63	PASS
Band5	3MHz	16QAM	20415	1RB#0	0.15~30	-53.17	PASS
Band5	3MHz	16QAM	20415	1RB#0	30~1000	-58.31	PASS
Band5	3MHz	16QAM	20415	1RB#0	1000~3000	-37.43	PASS
Band5	3MHz	16QAM	20415	1RB#0	3000~10000	-50.26	PASS
Band5	3MHz	QPSK	20525	1RB#0	0.009~0.15	-39.96	PASS
Band5	3MHz	QPSK	20525	1RB#0	0.15~30	-53.99	PASS
Band5	3MHz	QPSK	20525	1RB#0	30~1000	-59.77	PASS
Band5	3MHz	QPSK	20525	1RB#0	1000~3000	-38.33	PASS
Band5	3MHz	QPSK	20525	1RB#0	3000~10000	-50.32	PASS
Band5	3MHz	16QAM	20525	1RB#0	0.009~0.15	-44.38	PASS
Band5	3MHz	16QAM	20525	1RB#0	0.15~30	-52.68	PASS
Band5	3MHz	16QAM	20525	1RB#0	30~1000	-59.99	PASS
Band5	3MHz	16QAM	20525	1RB#0	1000~3000	-38.68	PASS
Band5	3MHz	16QAM	20525	1RB#0	3000~10000	-50.33	PASS
Band5	3MHz	QPSK	20635	1RB#0	0.009~0.15	-43.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	0.15~30	-54.03	PASS
Band5	3MHz	QPSK	20635	1RB#0	30~1000	-59.49	PASS
Band5	3MHz	QPSK	20635	1RB#0	1000~3000	-38.48	PASS
Band5	3MHz	QPSK	20635	1RB#0	3000~10000	-50.29	PASS
Band5	3MHz	16QAM	20635	1RB#0	0.009~0.15	-44.49	PASS
Band5	3MHz	16QAM	20635	1RB#0	0.15~30	-54.97	PASS
Band5	3MHz	16QAM	20635	1RB#0	30~1000	-44.09	PASS
Band5	3MHz	16QAM	20635	1RB#0	1000~3000	-37.83	PASS
Band5	3MHz	16QAM	20635	1RB#0	3000~10000	-50.29	PASS
Band5	5MHz	QPSK	20425	1RB#0	0.009~0.15	-43.33	PASS
Band5	5MHz	QPSK	20425	1RB#0	0.15~30	-55.34	PASS
Band5	5MHz	QPSK	20425	1RB#0	30~1000	-64.05	PASS
Band5	5MHz	QPSK	20425	1RB#0	1000~3000	-39.22	PASS
Band5	5MHz	QPSK	20425	1RB#0	3000~10000	-50.41	PASS
Band5	5MHz	16QAM	20425	1RB#0	0.009~0.15	-41.22	PASS
Band5	5MHz	16QAM	20425	1RB#0	0.15~30	-54.87	PASS
Band5	5MHz	16QAM	20425	1RB#0	30~1000	-63.76	PASS
Band5	5MHz	16QAM	20425	1RB#0	1000~3000	-40.08	PASS
Band5	5MHz	16QAM	20425	1RB#0	3000~10000	-50.21	PASS

Band5	5MHz	QPSK	20525	1RB#0	0.009~0.15	-44.42	PASS
Band5	5MHz	QPSK	20525	1RB#0	0.15~30	-55.06	PASS
Band5	5MHz	QPSK	20525	1RB#0	30~1000	-63.98	PASS
Band5	5MHz	QPSK	20525	1RB#0	1000~3000	-38.49	PASS
Band5	5MHz	QPSK	20525	1RB#0	3000~10000	-50.29	PASS
Band5	5MHz	16QAM	20525	1RB#0	0.009~0.15	-40.11	PASS
Band5	5MHz	16QAM	20525	1RB#0	0.15~30	-53.47	PASS
Band5	5MHz	16QAM	20525	1RB#0	30~1000	-64.43	PASS
Band5	5MHz	16QAM	20525	1RB#0	1000~3000	-39.72	PASS
Band5	5MHz	16QAM	20525	1RB#0	3000~10000	-50.40	PASS
Band5	5MHz	QPSK	20625	1RB#0	0.009~0.15	-42.03	PASS
Band5	5MHz	QPSK	20625	1RB#0	0.15~30	-52.27	PASS
Band5	5MHz	QPSK	20625	1RB#0	30~1000	-64.46	PASS
Band5	5MHz	QPSK	20625	1RB#0	1000~3000	-39.26	PASS
Band5	5MHz	QPSK	20625	1RB#0	3000~10000	-50.29	PASS
Band5	5MHz	16QAM	20625	1RB#0	0.009~0.15	-41.31	PASS
Band5	5MHz	16QAM	20625	1RB#0	0.15~30	-54.61	PASS
Band5	5MHz	16QAM	20625	1RB#0	30~1000	-63.54	PASS
Band5	5MHz	16QAM	20625	1RB#0	1000~3000	-39.52	PASS
Band5	5MHz	16QAM	20625	1RB#0	3000~10000	-50.30	PASS
Band5	10MHz	QPSK	20450	1RB#0	0.009~0.15	-44.76	PASS
Band5	10MHz	QPSK	20450	1RB#0	0.15~30	-54.08	PASS
Band5	10MHz	QPSK	20450	1RB#0	30~1000	-64.76	PASS
Band5	10MHz	QPSK	20450	1RB#0	1000~3000	-39.73	PASS
Band5	10MHz	QPSK	20450	1RB#0	3000~10000	-50.16	PASS
Band5	10MHz	16QAM	20450	1RB#0	0.009~0.15	-42.16	PASS
Band5	10MHz	16QAM	20450	1RB#0	0.15~30	-57.22	PASS
Band5	10MHz	16QAM	20450	1RB#0	30~1000	-64.83	PASS
Band5	10MHz	16QAM	20450	1RB#0	1000~3000	-38.92	PASS
Band5	10MHz	16QAM	20450	1RB#0	3000~10000	-50.29	PASS
Band5	10MHz	QPSK	20525	1RB#0	0.009~0.15	-42.11	PASS
Band5	10MHz	QPSK	20525	1RB#0	0.15~30	-52.75	PASS
Band5	10MHz	QPSK	20525	1RB#0	30~1000	-64.91	PASS
Band5	10MHz	QPSK	20525	1RB#0	1000~3000	-38.26	PASS
Band5	10MHz	QPSK	20525	1RB#0	3000~10000	-50.34	PASS
Band5	10MHz	16QAM	20525	1RB#0	0.009~0.15	-42.99	PASS
Band5	10MHz	16QAM	20525	1RB#0	0.15~30	-54.83	PASS
Band5	10MHz	16QAM	20525	1RB#0	30~1000	-64.86	PASS

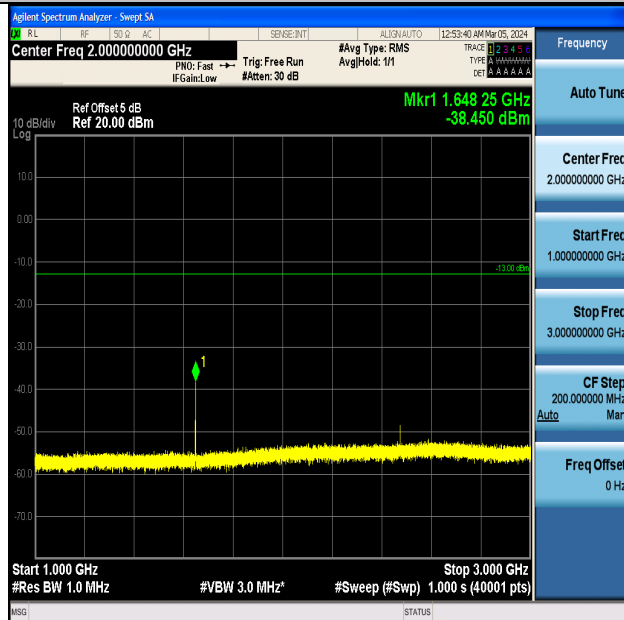
Band5	10MHz	16QAM	20525	1RB#0	1000~3000	-38.34	PASS
Band5	10MHz	16QAM	20525	1RB#0	3000~10000	-50.23	PASS
Band5	10MHz	QPSK	20600	1RB#0	0.009~0.15	-41.08	PASS
Band5	10MHz	QPSK	20600	1RB#0	0.15~30	-54.27	PASS
Band5	10MHz	QPSK	20600	1RB#0	30~1000	-64.75	PASS
Band5	10MHz	QPSK	20600	1RB#0	1000~3000	-36.77	PASS
Band5	10MHz	QPSK	20600	1RB#0	3000~10000	-49.87	PASS
Band5	10MHz	16QAM	20600	1RB#0	0.009~0.15	-42.03	PASS
Band5	10MHz	16QAM	20600	1RB#0	0.15~30	-54.11	PASS
Band5	10MHz	16QAM	20600	1RB#0	30~1000	-65.02	PASS
Band5	10MHz	16QAM	20600	1RB#0	1000~3000	-37.91	PASS
Band5	10MHz	16QAM	20600	1RB#0	3000~10000	-50.28	PASS

Test Graphs

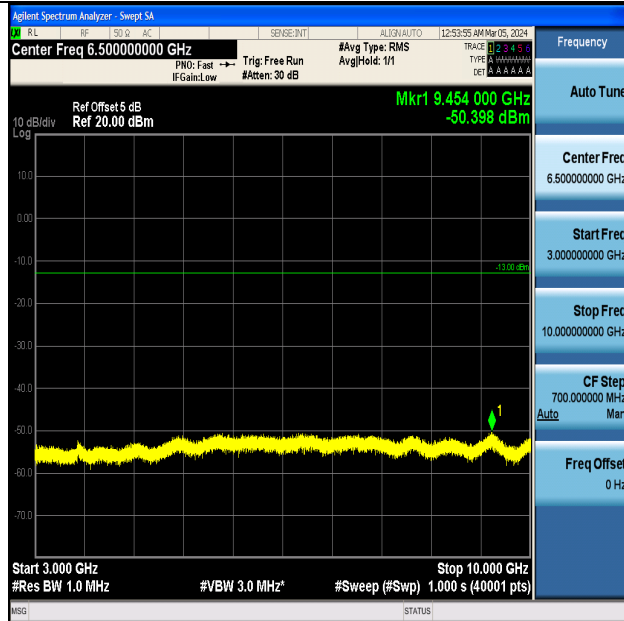




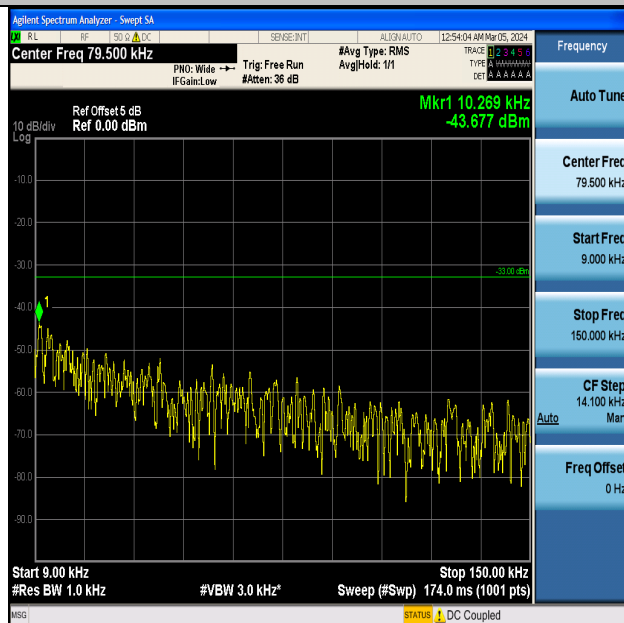
Band5_1.4MHz_QPSK_20407_1RB#0_30~1000_30~1000



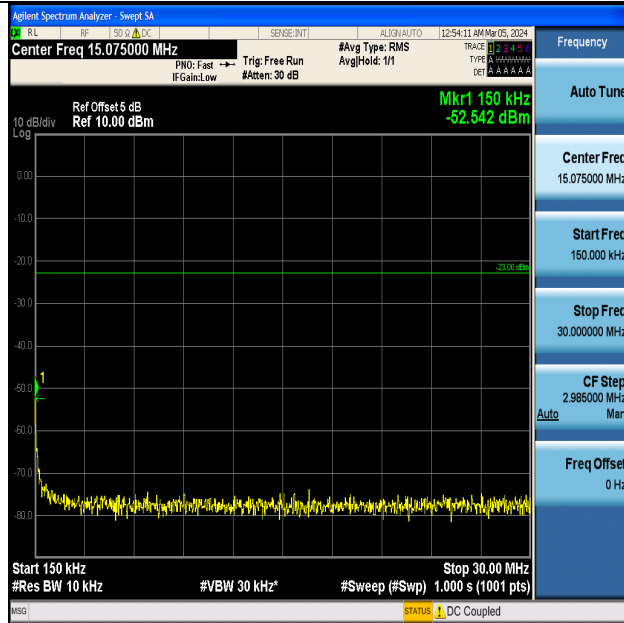
Band5_1.4MHz_QPSK_20407_1RB#0_1000~3000_1000~3000



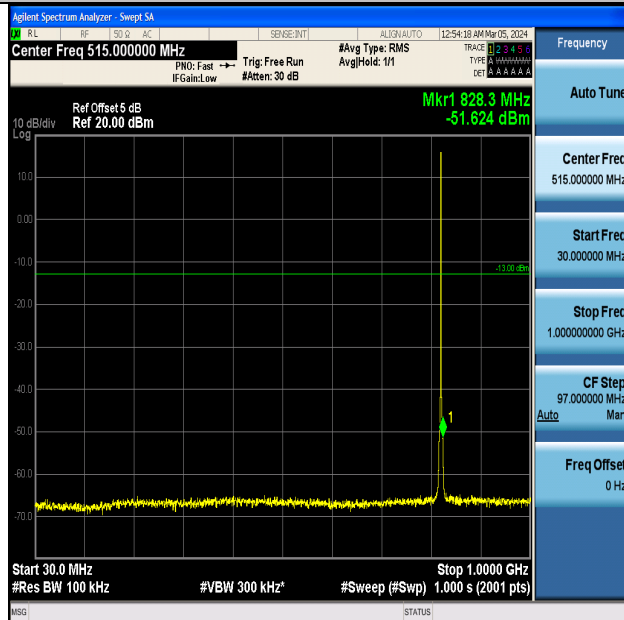
Band5_1.4MHz_QPSK_20407_1RB#0_3000~10000_3000~10000



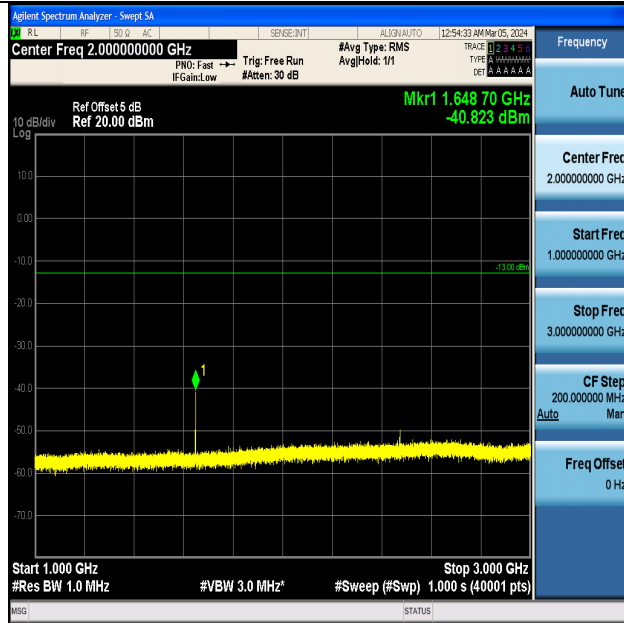
Band5_1.4MHz_16QAM_20407_1RB#0_0.009~0.15_0.009~0.15



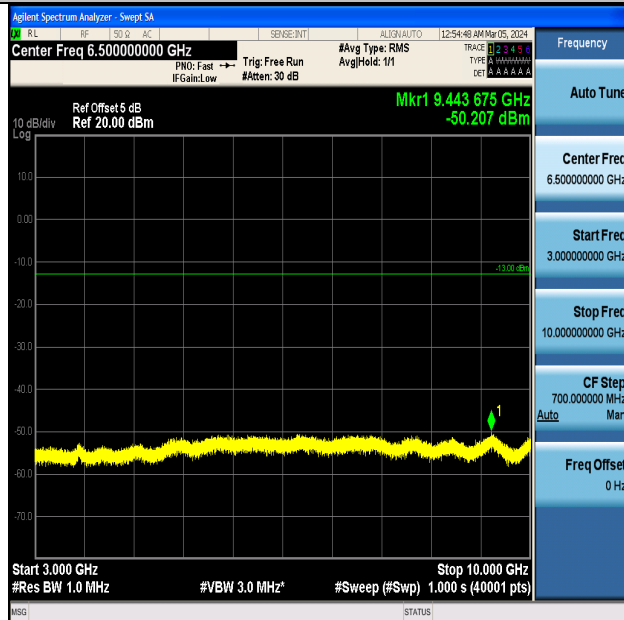
Band5_1.4MHz_16QAM_20407_1RB#0_0.15~30_0.15~30



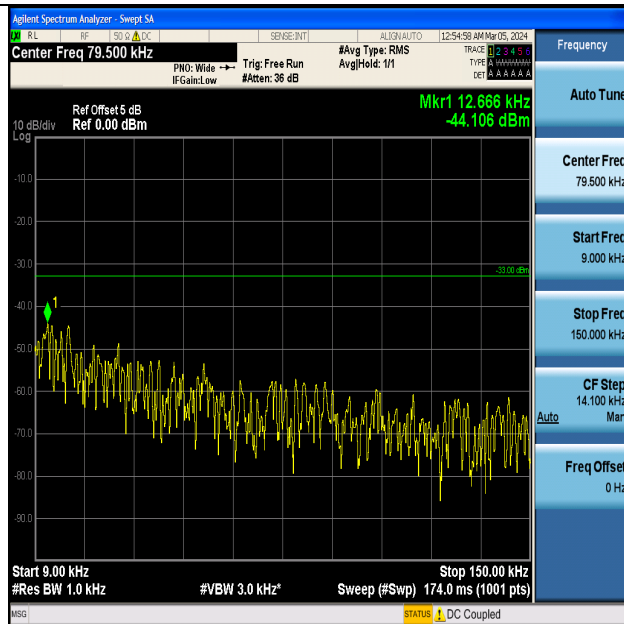
Band5_1.4MHz_16QAM_20407_1RB#0_30~1000_30~1000



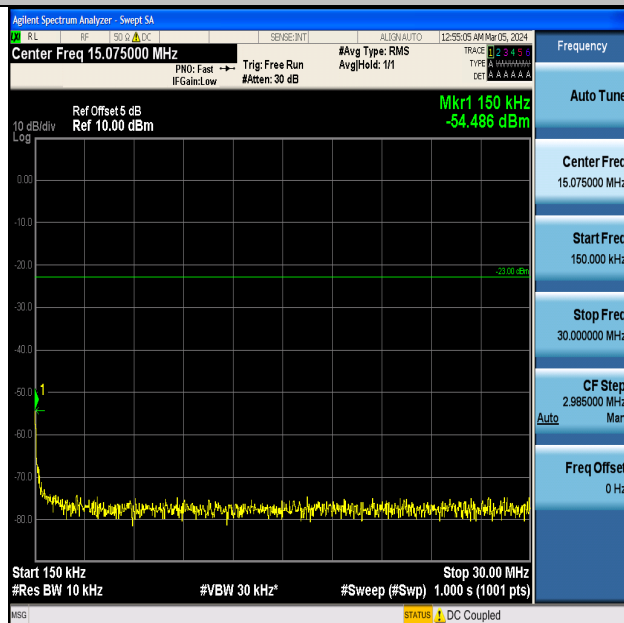
Band5_1.4MHz_16QAM_20407_1RB#0_1000~3000_1000~3000



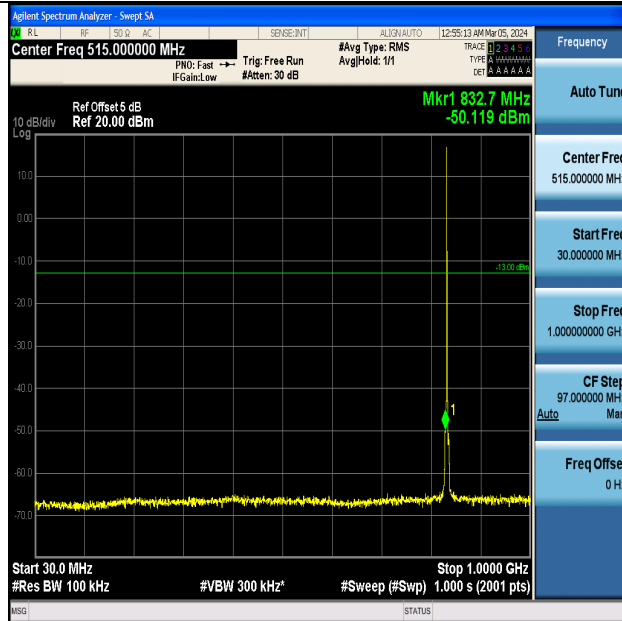
Band5_1.4MHz_16QAM_20407_1RB#0_3000~10000_3000~10000



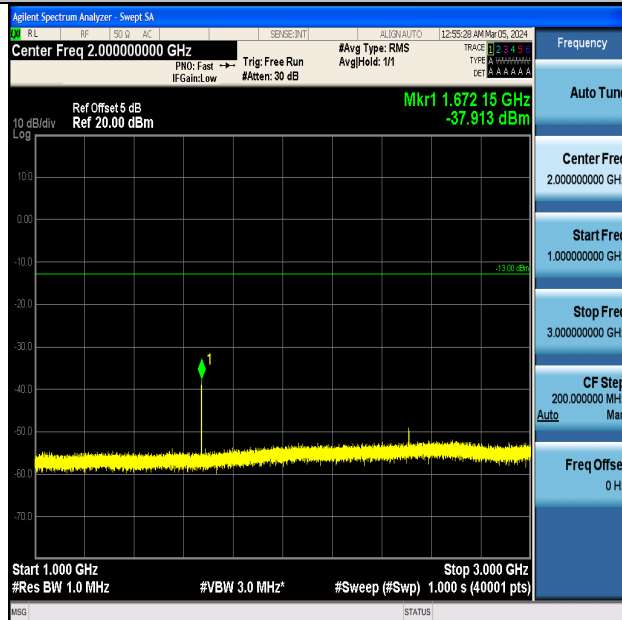
Band5_1.4MHz_QPSK_20525_1RB#0_0.009~0.15_0.009~0.15



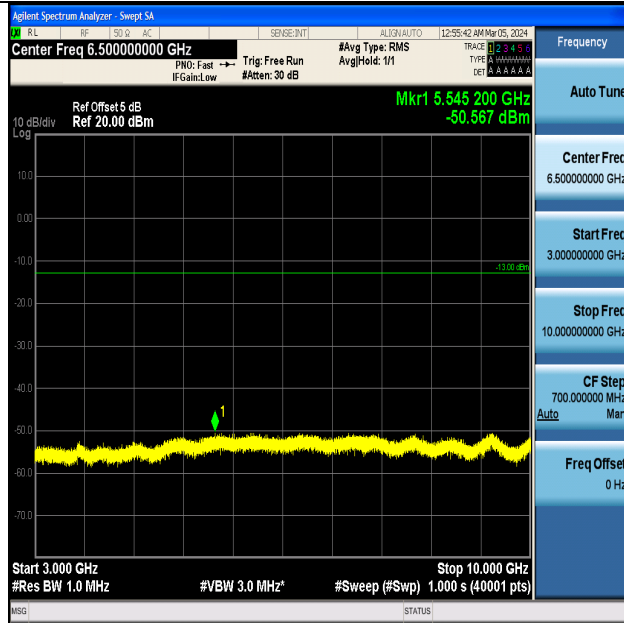
Band5_1.4MHz_QPSK_20525_1RB#0_0.15~30_0.15~30



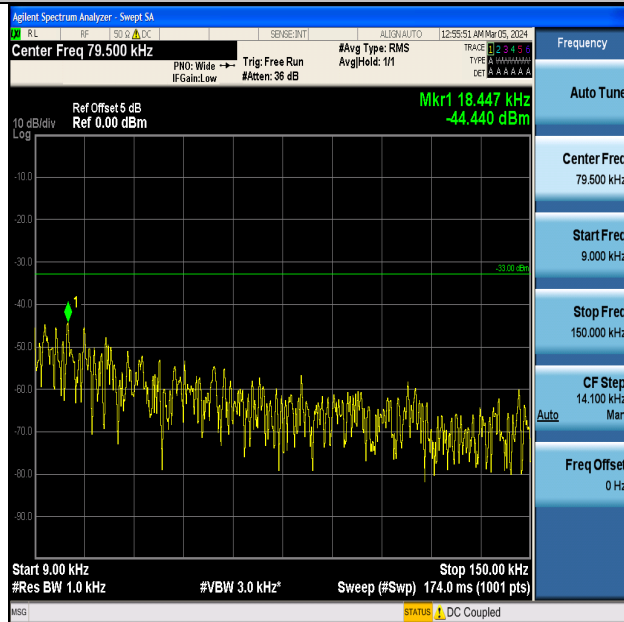
Band5_1.4MHz_QPSK_20525_1RB#0_30~1000_30~1000



Band5_1.4MHz_QPSK_20525_1RB#0_1000~3000_1000~3000



Band5_1.4MHz_QPSK_20525_1RB#0_3000~10000_3000~10000



Band5_1.4MHz_16QAM_20525_1RB#0_0.009~0.15_0.009~0.15