FCC LTE Band Test Data

FCC ID	**:**	**2BKLE-ARIES**
Company:	**:**	**Versa World Inc.**
EUT	**:**	**POC/IP Two Way Radio**
Model Number	**:**	**G232**
Reviewed By	**:**	**Eric Wang**

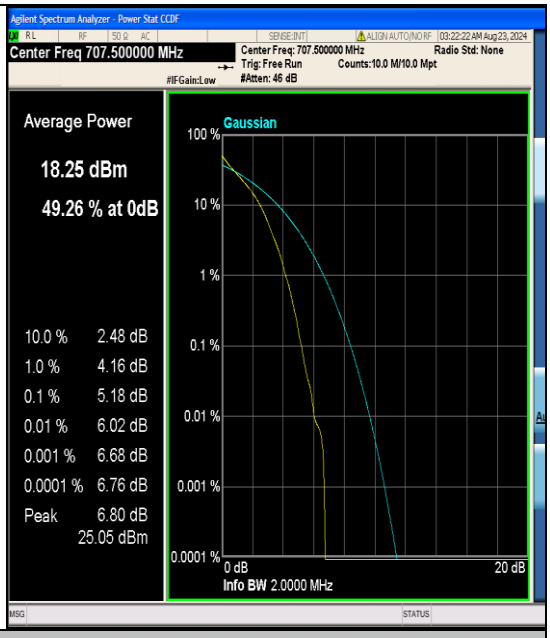
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

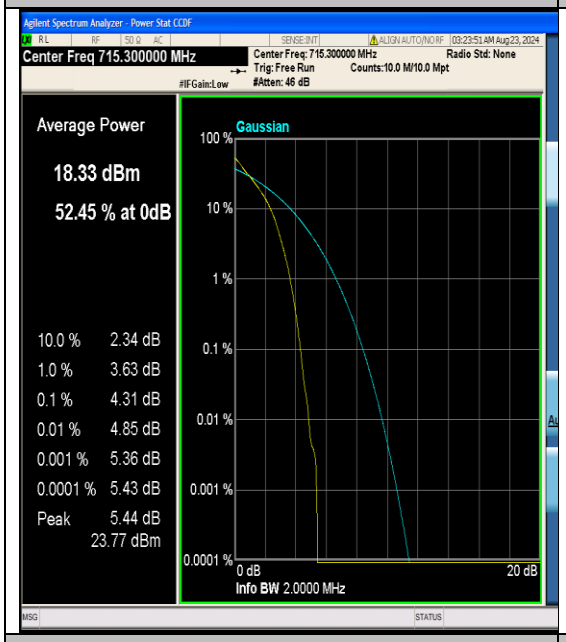
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.09	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.18	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.31	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	5.84	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.90	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.14	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.38	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.42	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.97	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.16	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.16	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.78	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.54	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.54	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.19	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.18	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.12	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.88	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.56	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.46	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.38	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.21	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.05	13	PASS

Test Graphs

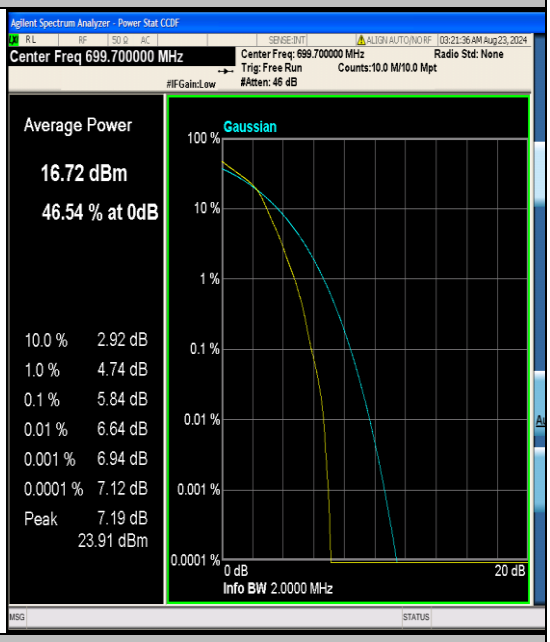
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



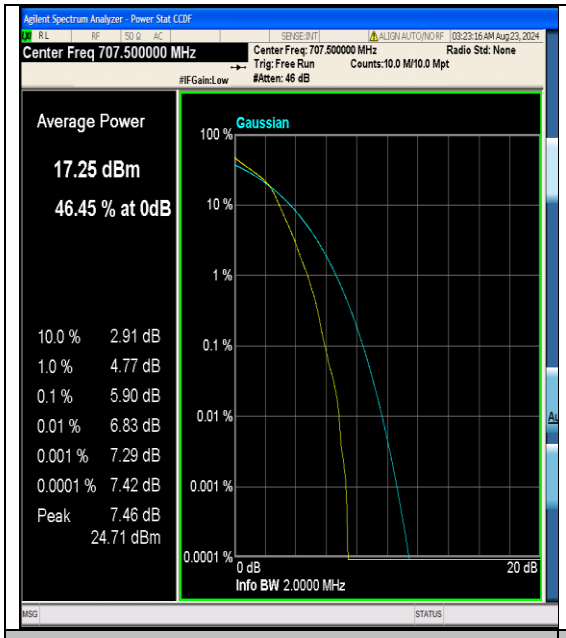
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23017-6RB#0-PASS



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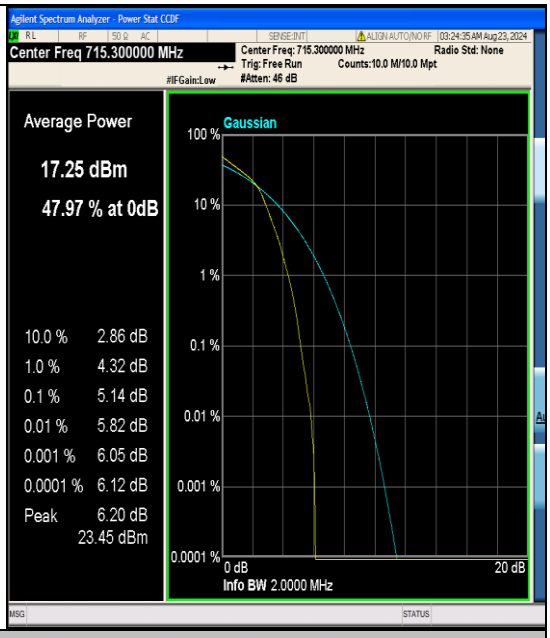

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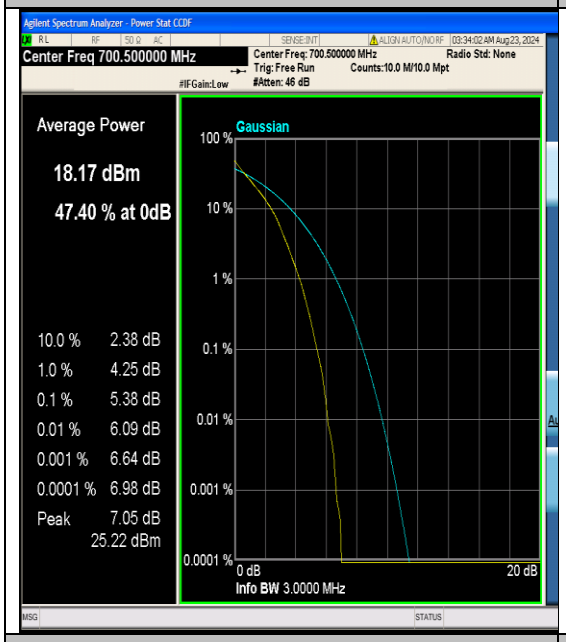
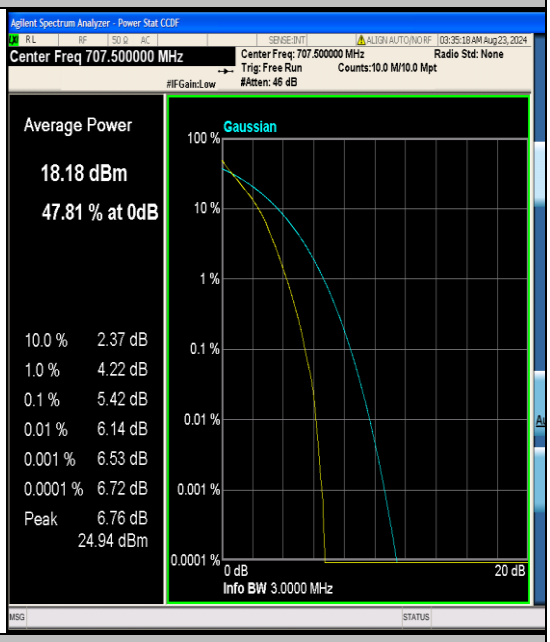


Band12-3MHz-QPSK-23025-15RB#0-PASS



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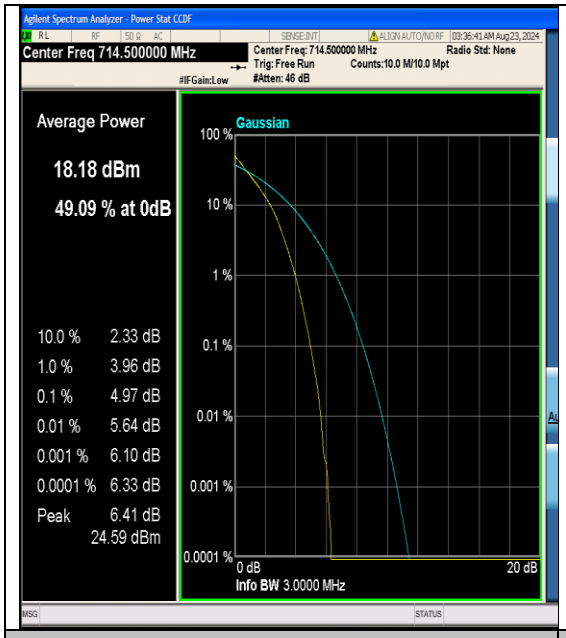
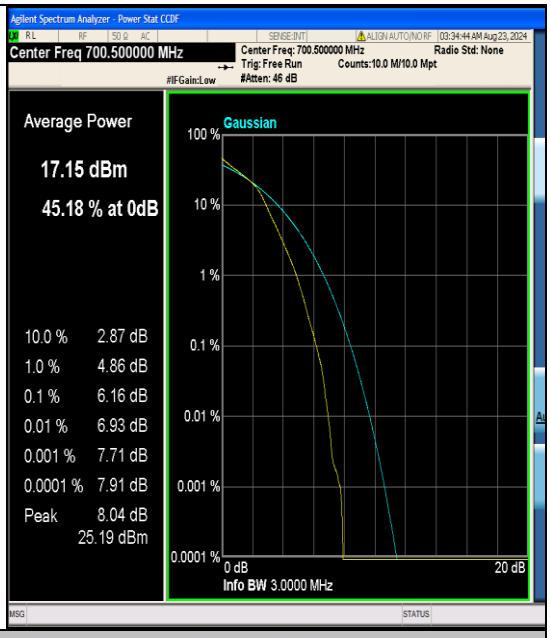
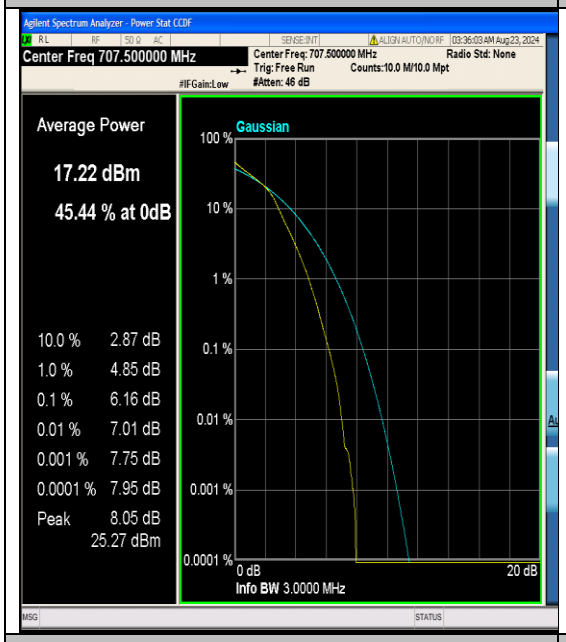


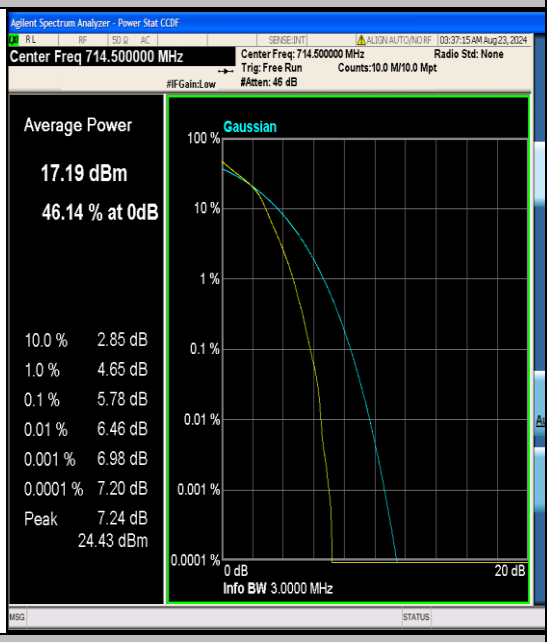
Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS



Band12-3MHz-16QAM-23095-15RB#0-PASS



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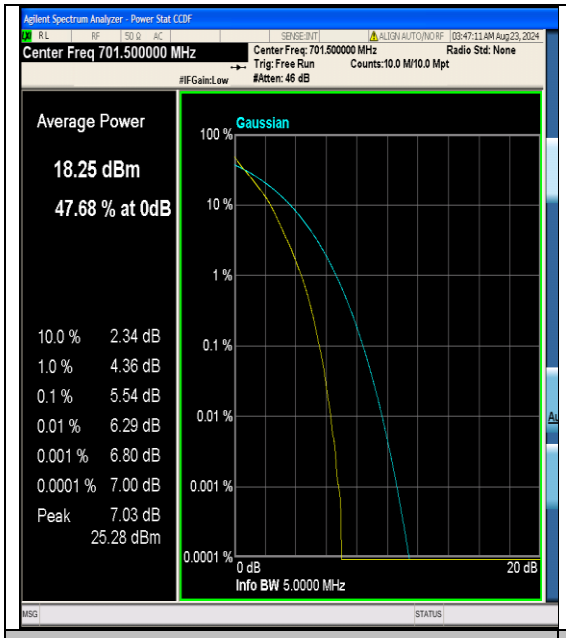
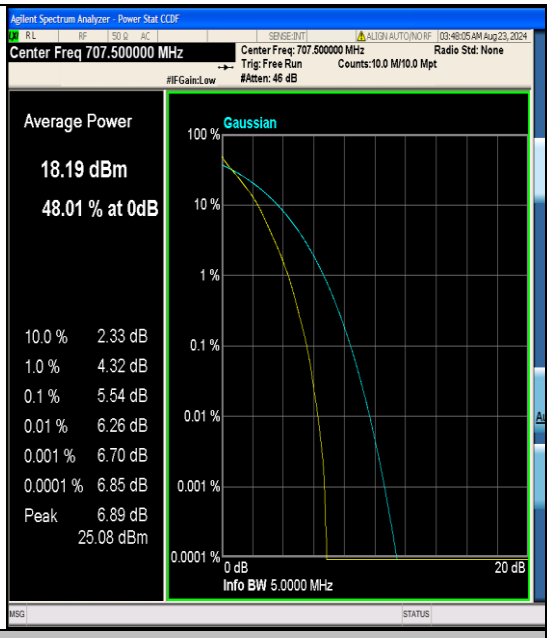
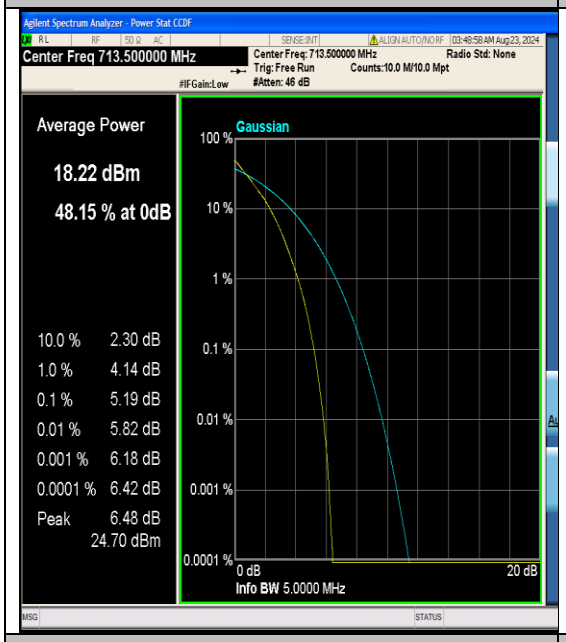


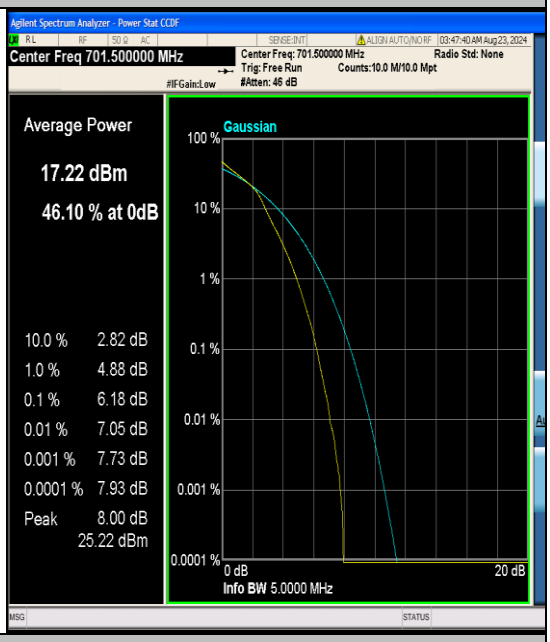
Band12-5MHz-QPSK-23035-25RB#0-PASS



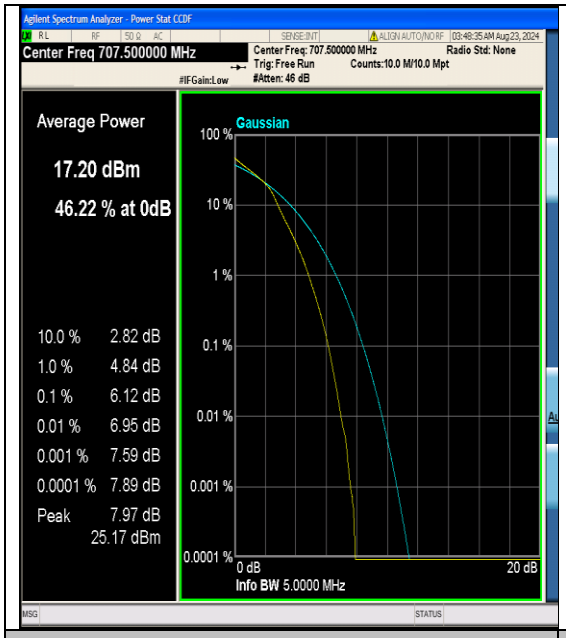
Band12-5MHz-QPSK-23095-25RB#0-PASS



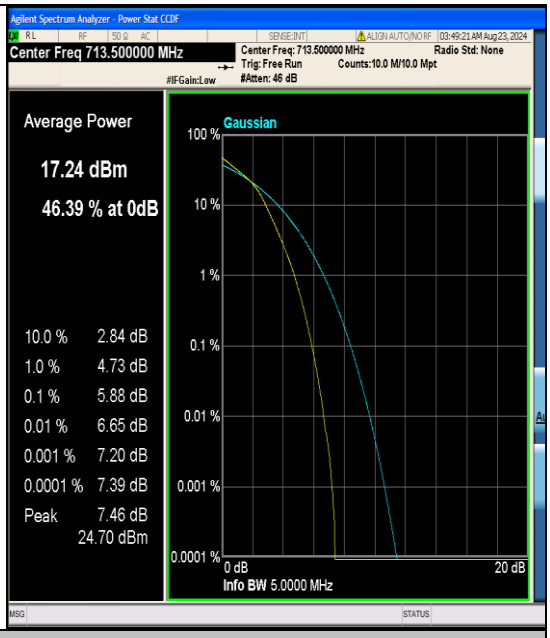
Band12-5MHz-QPSK-23155-25RB#0-PASS



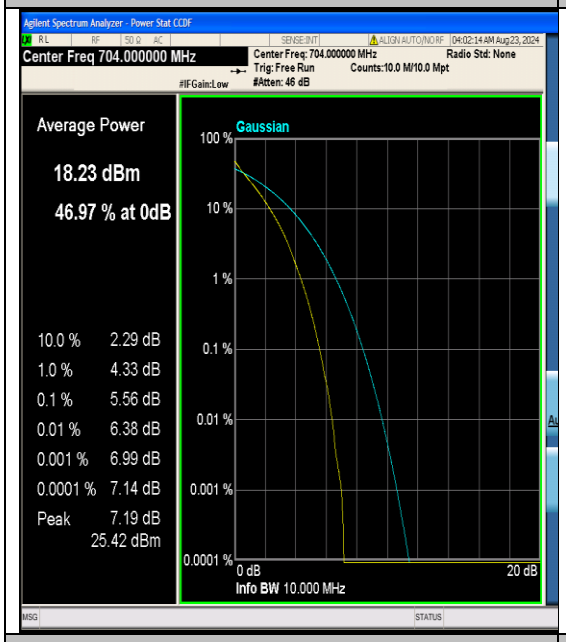
Band12-5MHz-16QAM-23035-25RB#0-PASS



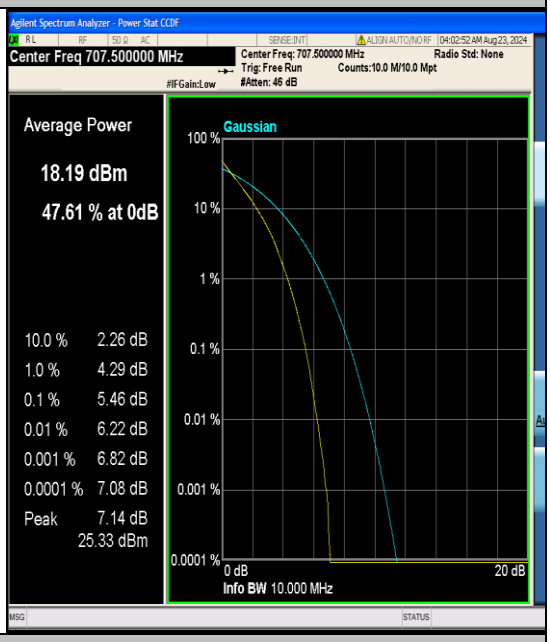
Band12-5MHz-16QAM-23095-25RB#0-PASS



Band12-5MHz-16QAM-23155-25RB#0-PASS

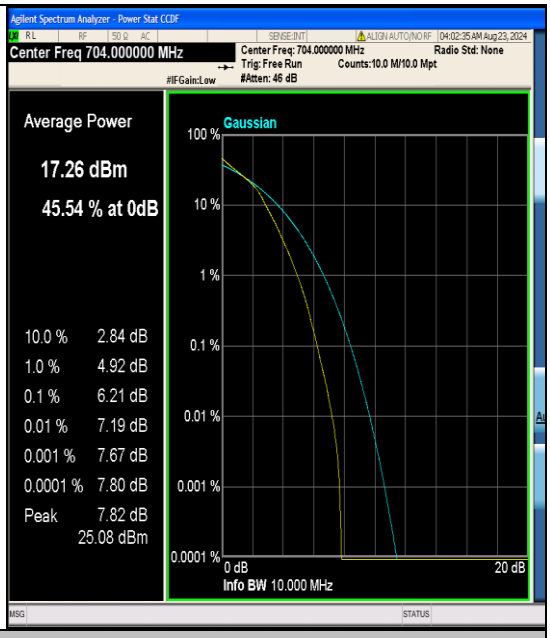


Band12-10MHz-QPSK-23060-50RB#0-PASS

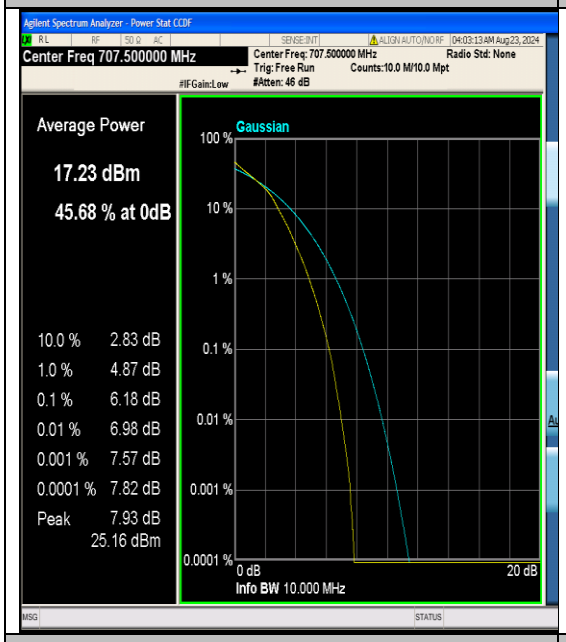


Band12-10MHz-QPSK-23095-50RB#0-PASS

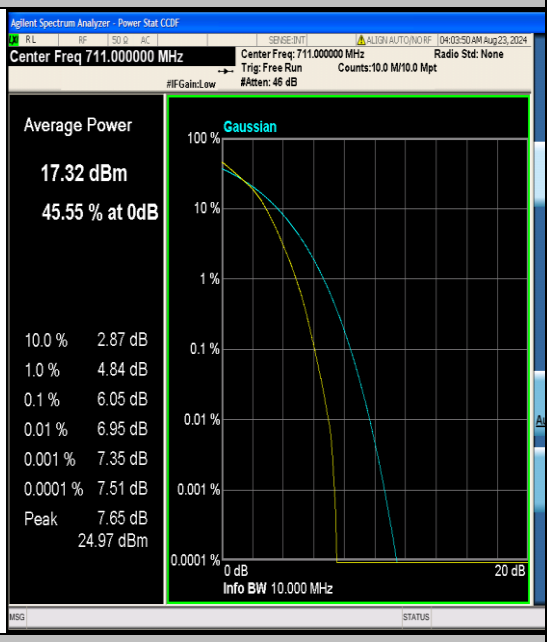
Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



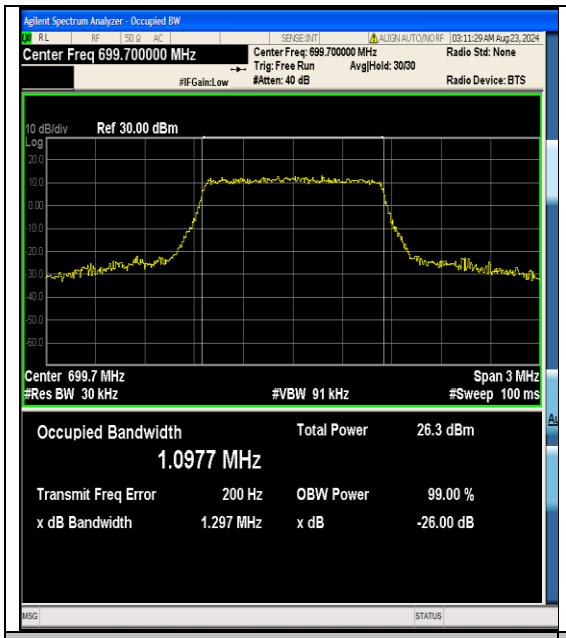
Band12-10MHz-16QAM-23130-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

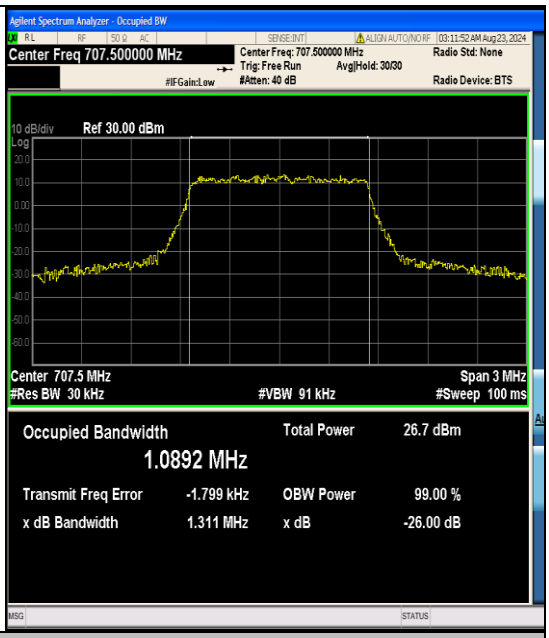
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0977	1.297	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0892	1.311	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0921	1.338	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0877	1.277	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0951	1.313	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0974	1.307	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6851	2.899	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6870	2.890	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6858	2.894	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6806	2.904	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6812	2.909	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6788	2.895	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5248	5.210	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5218	5.187	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5164	5.216	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5209	5.163	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5199	5.128	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5178	5.134	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0135	10.24	PASS
Band12	10MHz	QPSK	23095	50RB#0	9.0028	10.15	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0023	10.15	PASS
Band12	10MHz	16QAM	23060	50RB#0	9.0022	10.04	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9868	10.13	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.0008	10.01	PASS

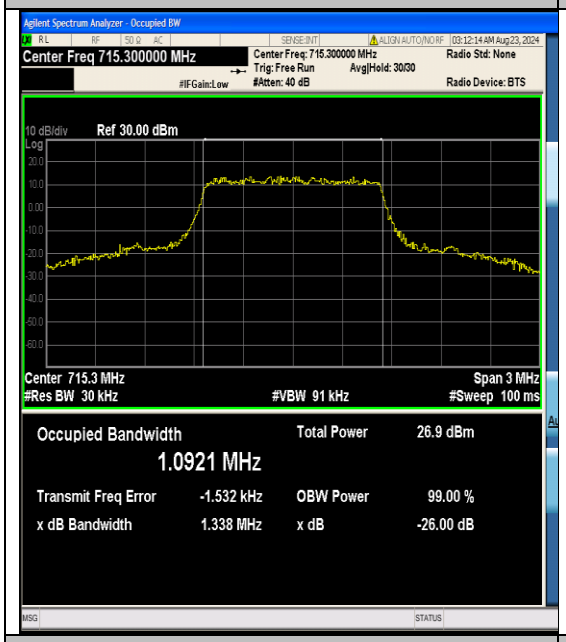
Test Graphs



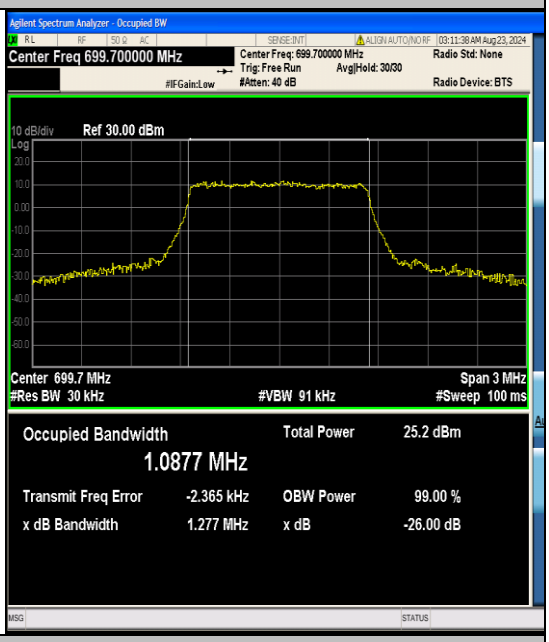
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



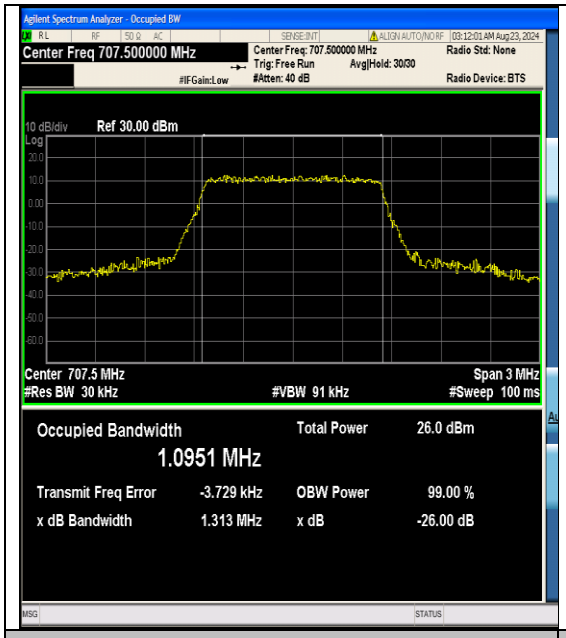
Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23017-6RB#0-PASS



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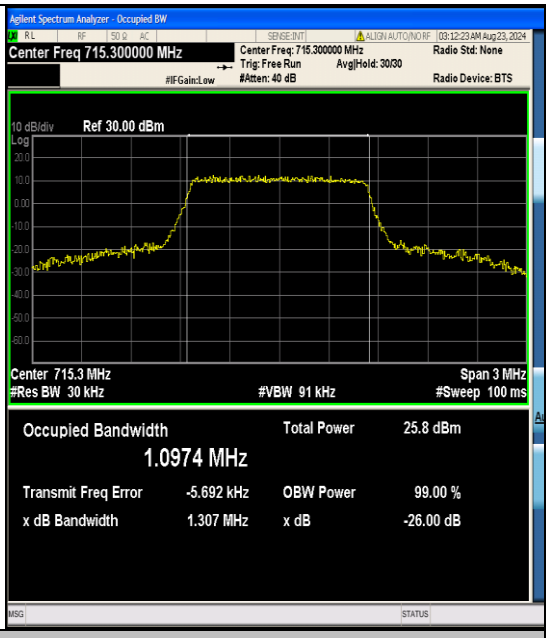
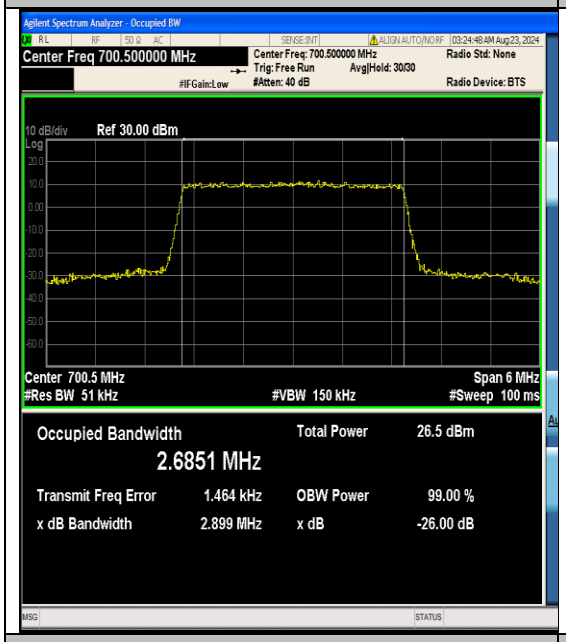
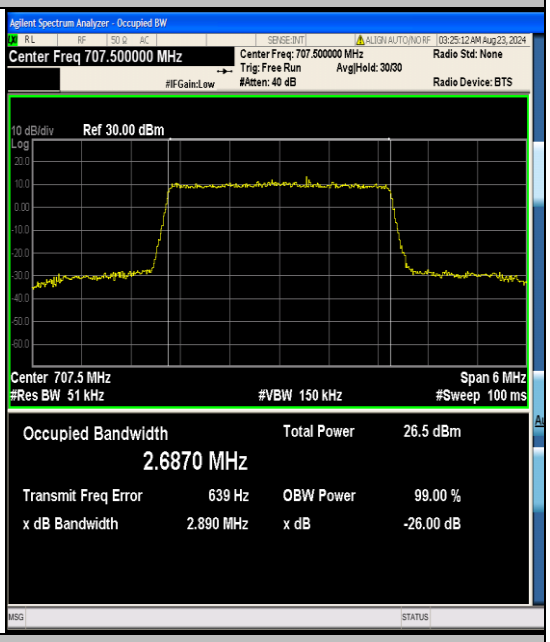


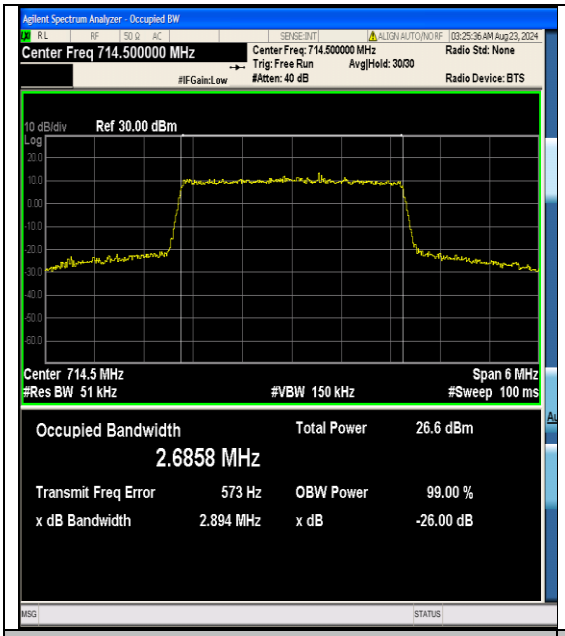
Band12-1.4MHz-16QAM-23173-6RB#0-PASS



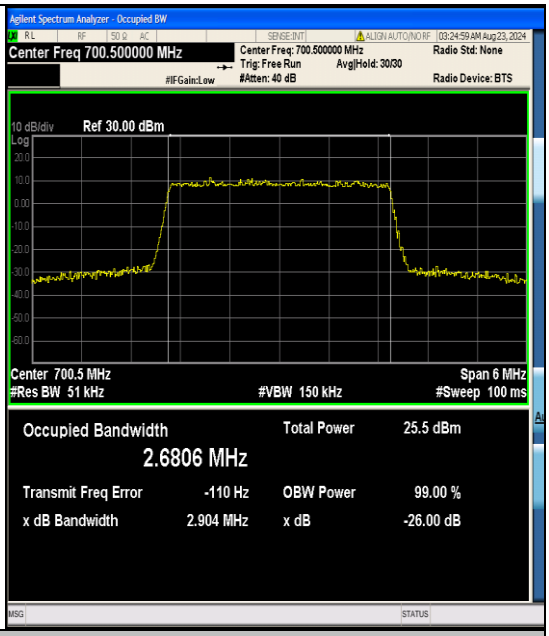
Band12-3MHz-QPSK-23025-15RB#0-PASS



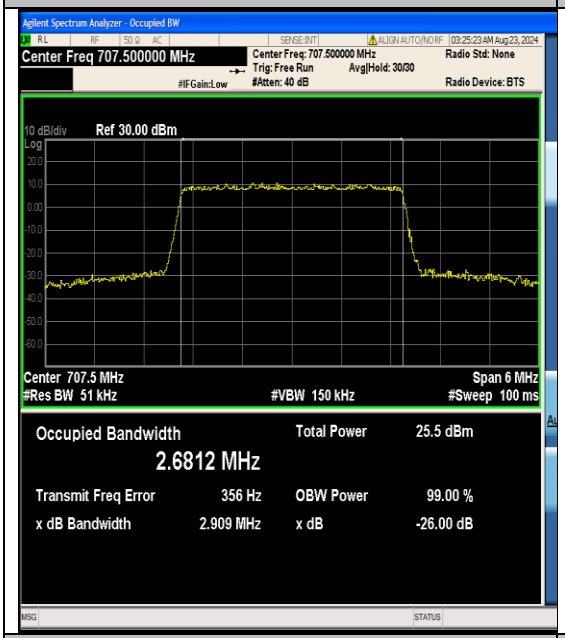
Band12-3MHz-QPSK-23095-15RB#0-PASS



Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS



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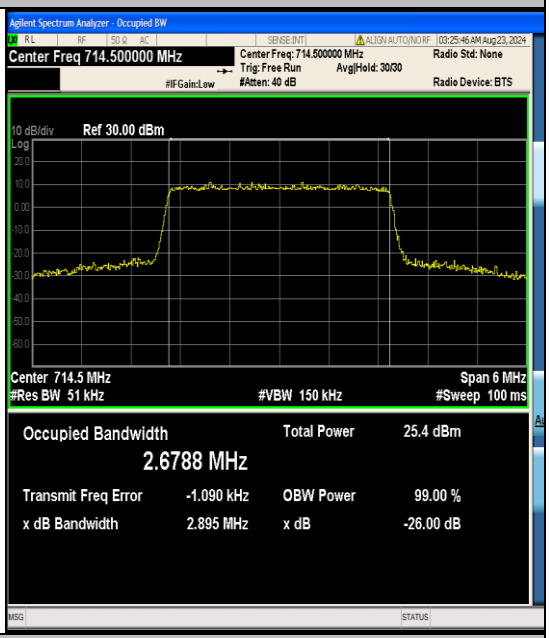
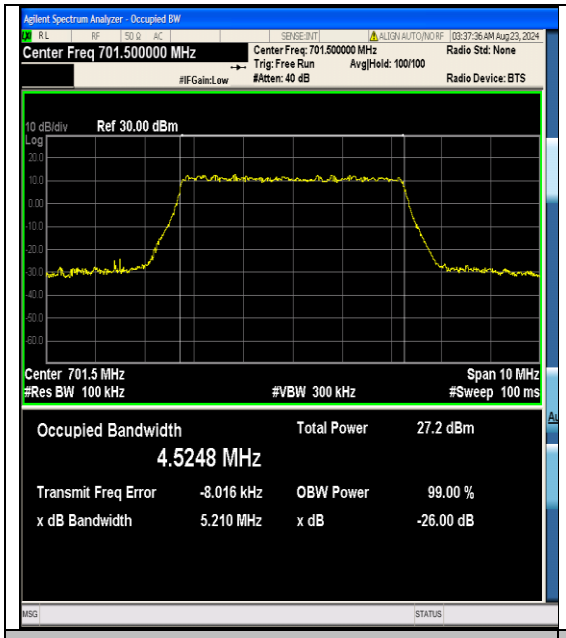
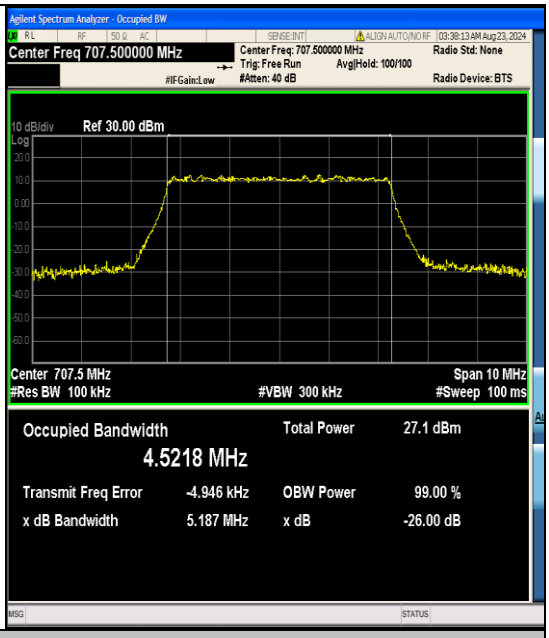


Band12-3MHz-16QAM-23165-15RB#0-PASS



Band12-5MHz-QPSK-23035-25RB#0-PASS



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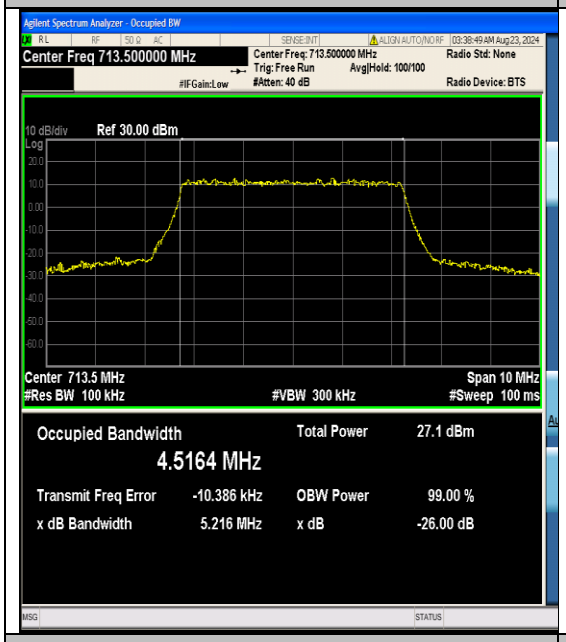
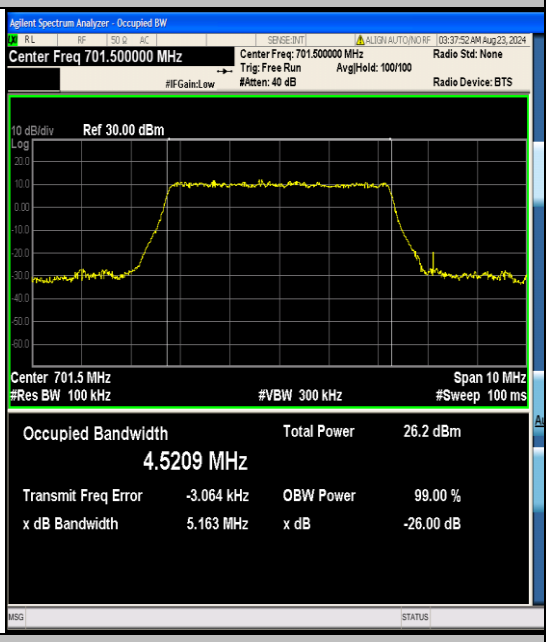
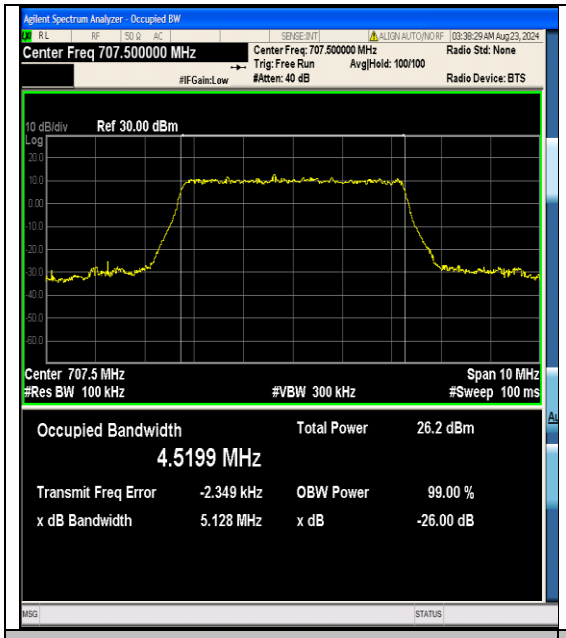


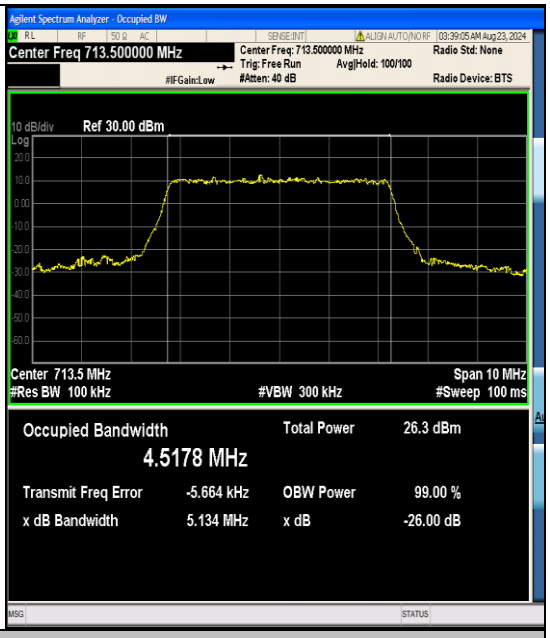
Band12-5MHz-QPSK-23155-25RB#0-PASS



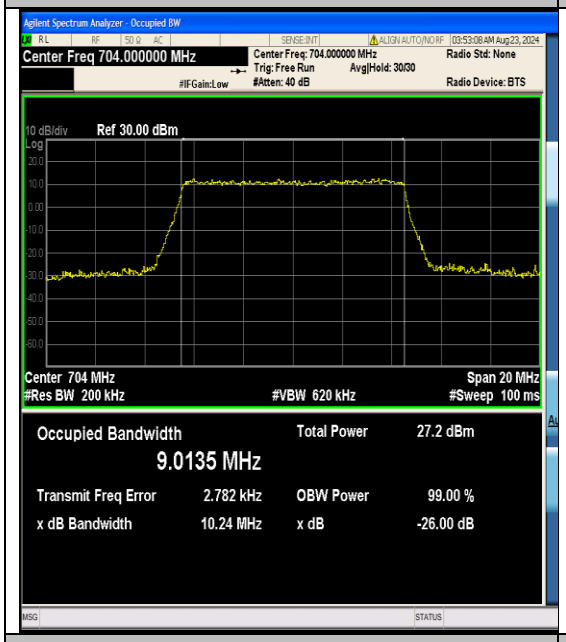
Band12-5MHz-16QAM-23035-25RB#0-PASS



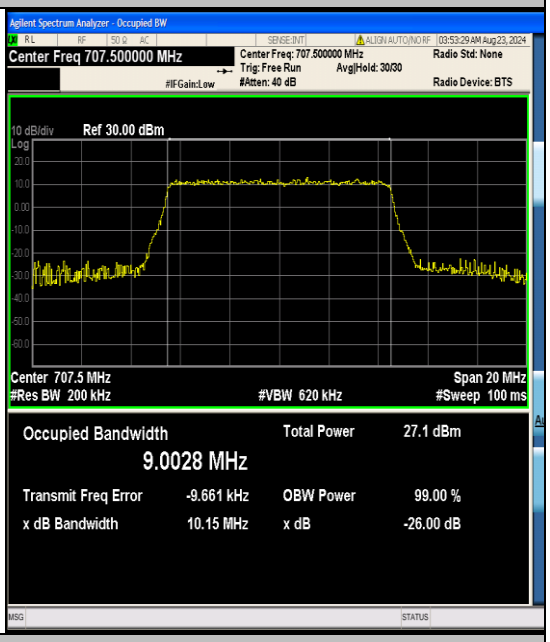
Band12-5MHz-16QAM-23095-25RB#0-PASS



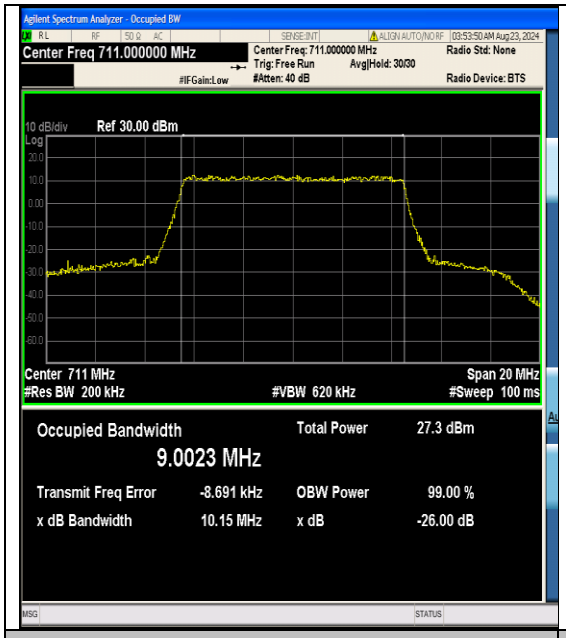
Band12-5MHz-16QAM-23155-25RB#0-PASS



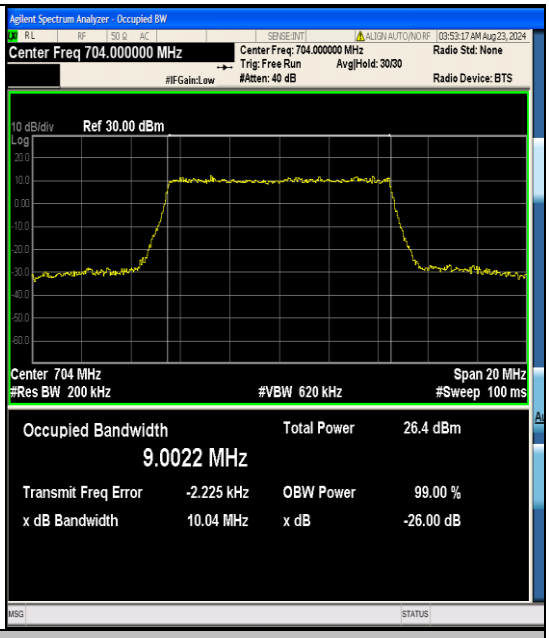
Band12-10MHz-QPSK-23060-50RB#0-PASS



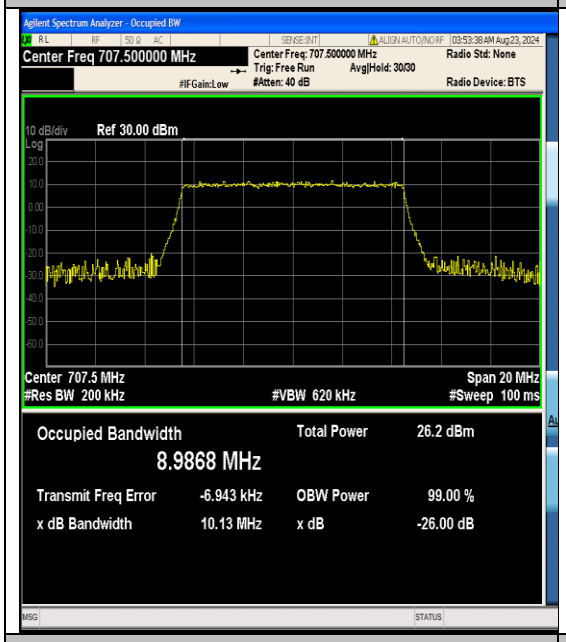
Band12-10MHz-QPSK-23095-50RB#0-PASS



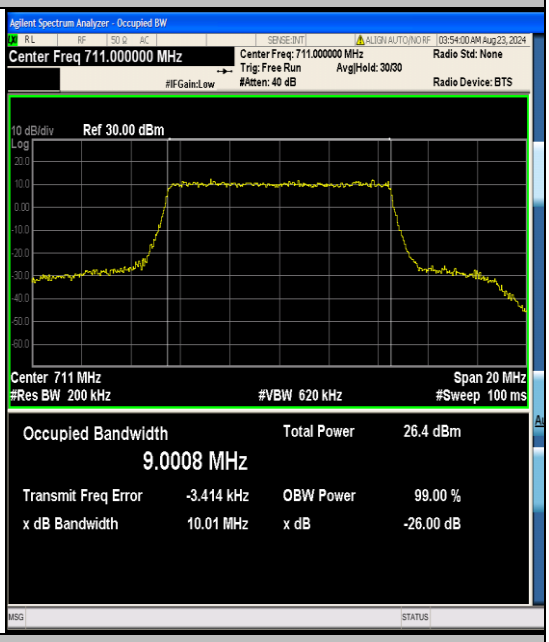
Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23060-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



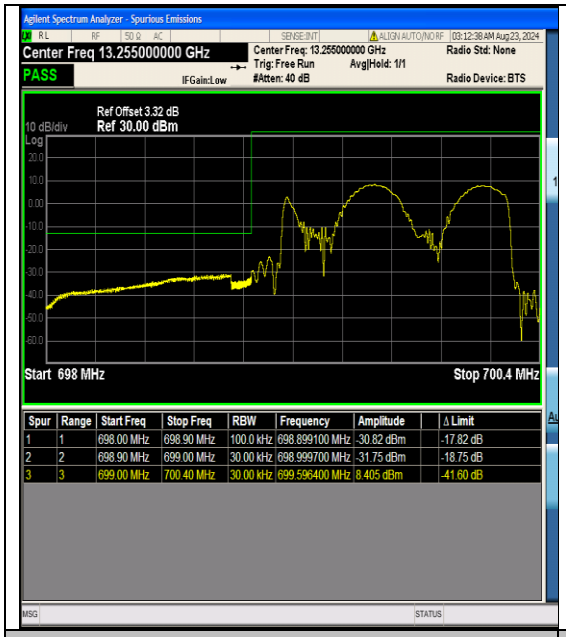
Band12-10MHz-16QAM-23130-50RB#0-PASS

Appendix D: Band Edge

Test Result

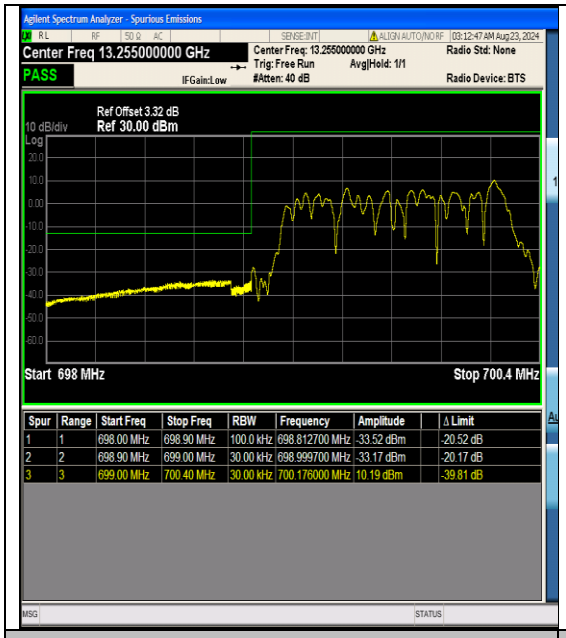
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-30.82	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-22.94	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-33.17	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-27.21	PASS
Band12	3MHz	QPSK	23025	15RB#0	-36.36	PASS
Band12	3MHz	QPSK	23165	15RB#0	-30.79	PASS
Band12	3MHz	16QAM	23025	15RB#0	-38.11	PASS
Band12	3MHz	16QAM	23165	15RB#0	-33.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	-35.60	PASS
Band12	5MHz	QPSK	23155	25RB#0	-33.49	PASS
Band12	5MHz	16QAM	23035	25RB#0	-37.59	PASS
Band12	5MHz	16QAM	23155	25RB#0	-36.08	PASS
Band12	10MHz	QPSK	23060	50RB#0	-40.98	PASS
Band12	10MHz	QPSK	23130	50RB#0	-38.52	PASS
Band12	10MHz	16QAM	23060	50RB#0	-42.51	PASS
Band12	10MHz	16QAM	23130	50RB#0	-41.12	PASS

Test Graphs



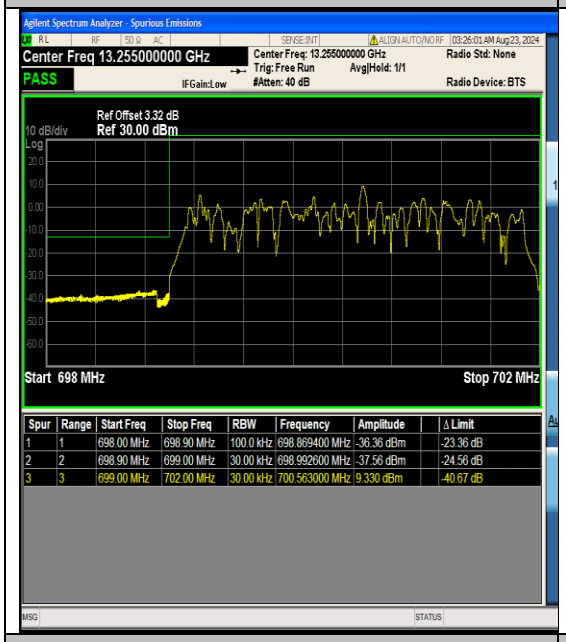
Band12_1.4MHz_QPSK_23017_6RB#0

Band12_1.4MHz_QPSK_23173_6RB#0

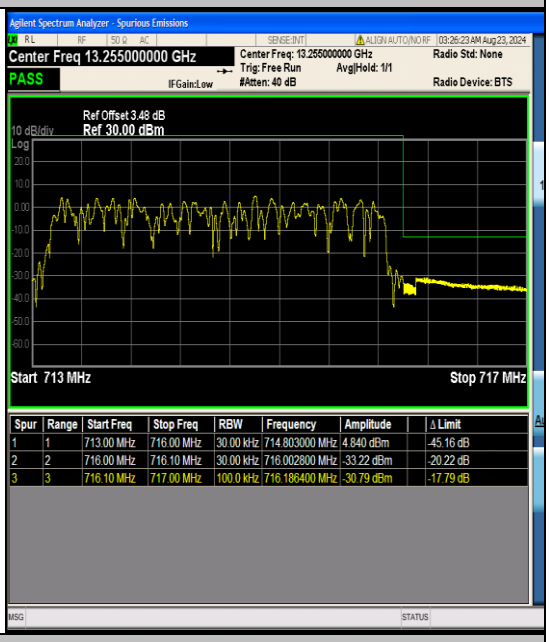


Band12_1.4MHz_16QAM_23017_6RB#0

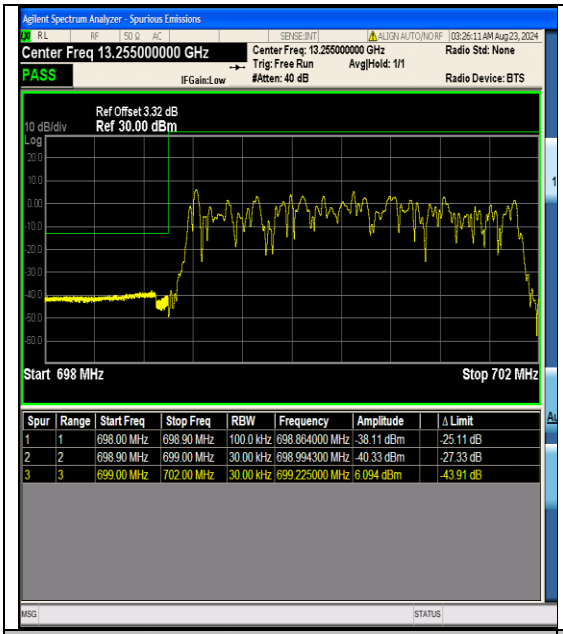
Band12_1.4MHz_16QAM_23173_6RB#0



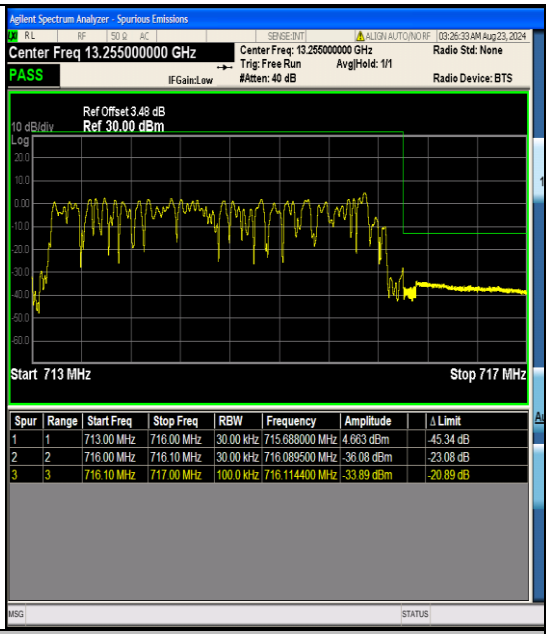
Band12_3MHz_QPSK_23025_15RB#0



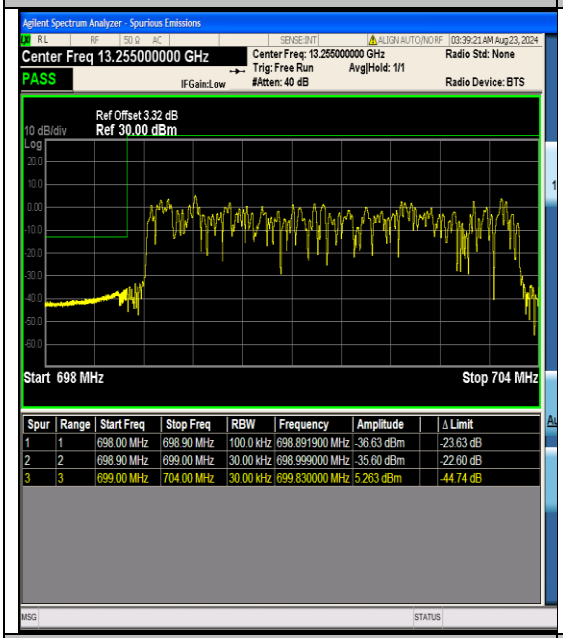
Band12_3MHz_QPSK_23165_15RB#0



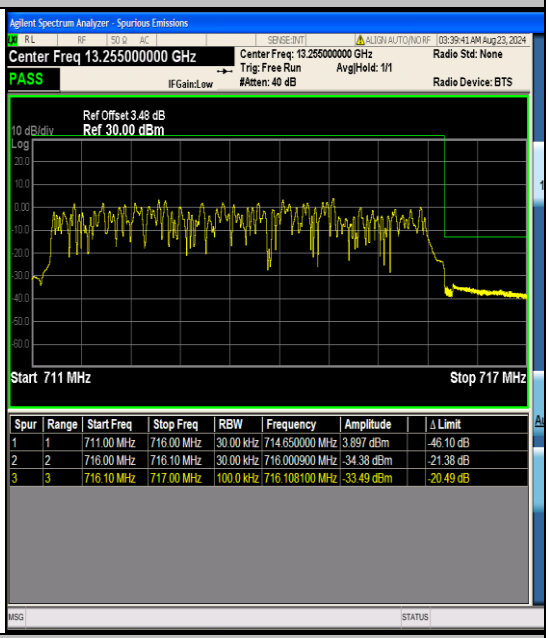
Band12_3MHz_16QAM_23025_15RB#0



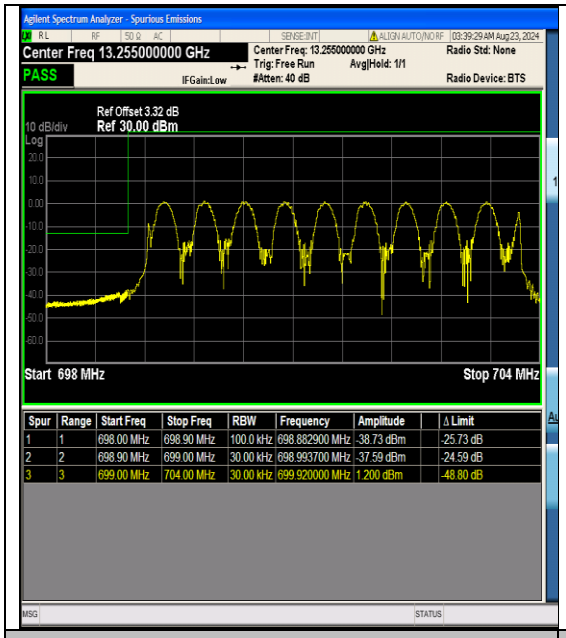
Band12_3MHz_16QAM_23165_15RB#0



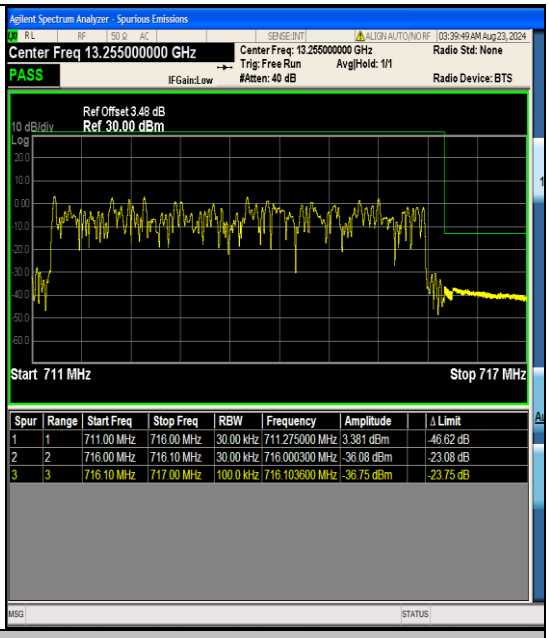
Band12_5MHz_QPSK_23035_25RB#0



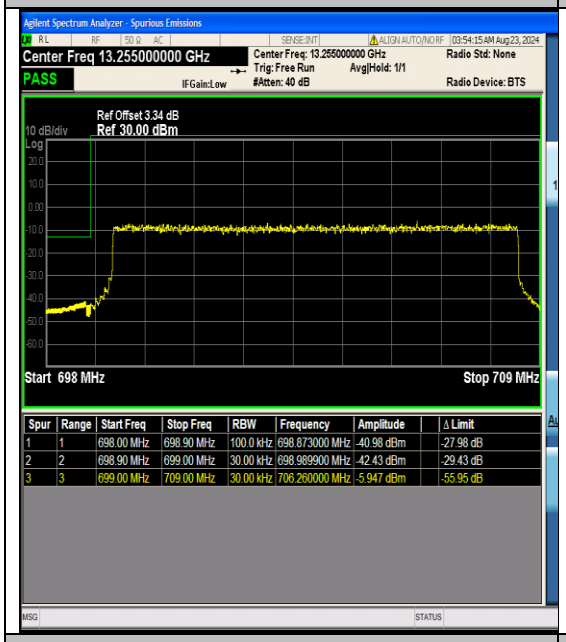
Band12_5MHz_QPSK_23155_25RB#0



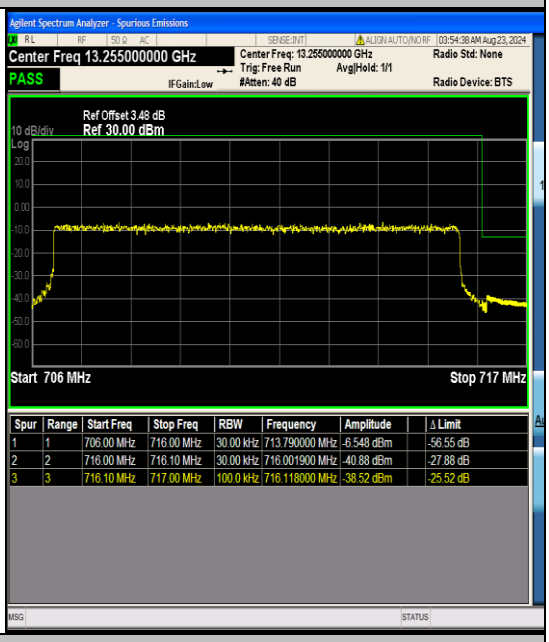
Band12_5MHz_16QAM_23035_25RB#0



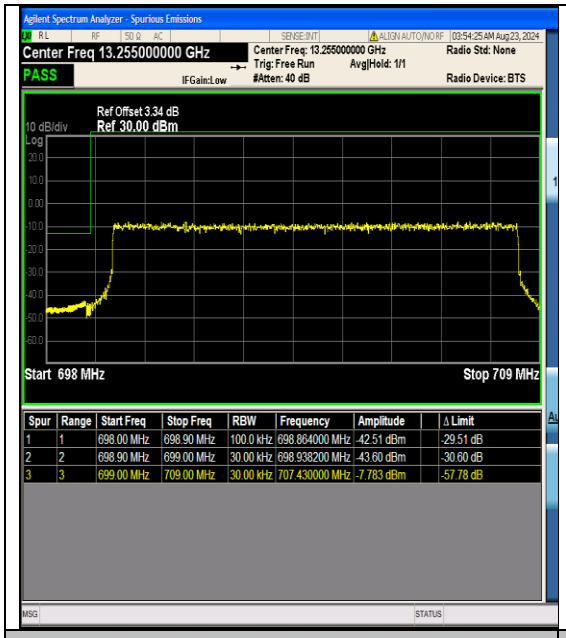
Band12_5MHz_16QAM_23155_25RB#0



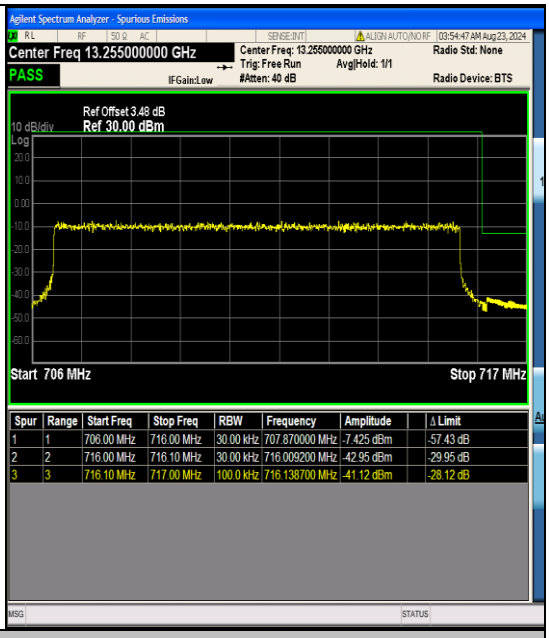
Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_QPSK_23130_50RB#0



Band12_10MHz_16QAM_23060_50RB#0



Band12_10MHz_16QAM_23130_50RB#0

Appendix E: Conducted Spurious Emission

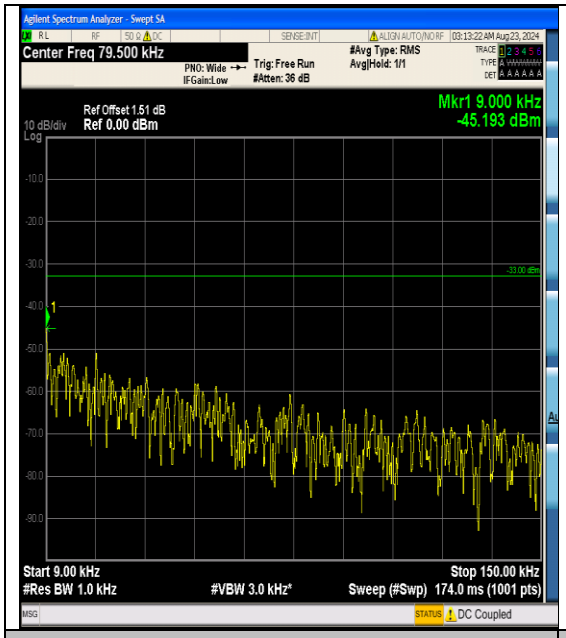
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	0.009~0.15	-45.19	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	0.15~30	-60.56	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	30~1000	-51.85	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	1000~3000	-47.22	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	3000~10000	-50.05	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.009~0.15	-47.45	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	0.15~30	-58.55	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	30~1000	-52.10	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1000~3000	-50.24	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	3000~10000	-49.74	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.009~0.15	-47.86	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	0.15~30	-57.47	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	30~1000	-50.09	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1000~3000	-49.98	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	3000~10000	-49.86	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.009~0.15	-45.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	0.15~30	-58.51	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	30~1000	-52.02	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1000~3000	-47.97	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	3000~10000	-50.08	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.009~0.15	-47.71	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	0.15~30	-57.26	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	30~1000	-53.48	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1000~3000	-51.74	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	3000~10000	-50.04	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.009~0.15	-49.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	0.15~30	-56.88	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	30~1000	-53.34	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1000~3000	-49.36	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	3000~10000	-49.83	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.009~0.15	-48.70	PASS
Band12	3MHz	QPSK	23025	15RB#0	0.15~30	-58.22	PASS
Band12	3MHz	QPSK	23025	15RB#0	30~1000	-52.36	PASS
Band12	3MHz	QPSK	23025	15RB#0	1000~3000	-49.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	3000~10000	-49.58	PASS
Band12	3MHz	QPSK	23095	15RB#0	0.009~0.15	-49.30	PASS

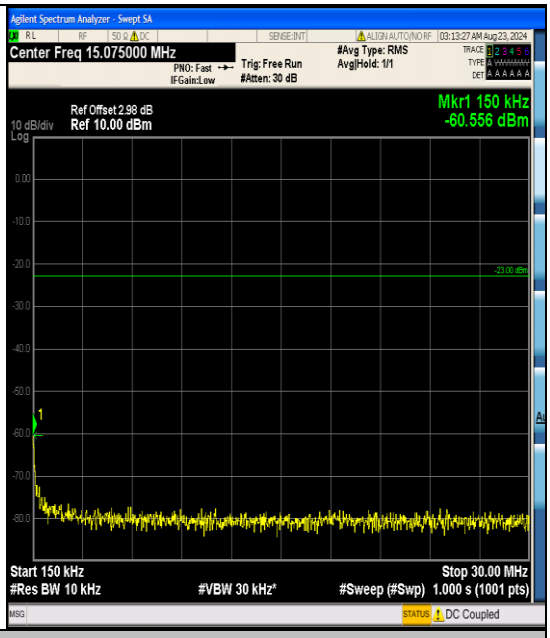
Band12	3MHz	QPSK	23095	15RB#0	0.15~30	-58.00	PASS
Band12	3MHz	QPSK	23095	15RB#0	30~1000	-53.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	1000~3000	-52.60	PASS
Band12	3MHz	QPSK	23095	15RB#0	3000~10000	-49.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.009~0.15	-48.83	PASS
Band12	3MHz	QPSK	23165	15RB#0	0.15~30	-58.23	PASS
Band12	3MHz	QPSK	23165	15RB#0	30~1000	-53.01	PASS
Band12	3MHz	QPSK	23165	15RB#0	1000~3000	-50.15	PASS
Band12	3MHz	QPSK	23165	15RB#0	3000~10000	-50.06	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.009~0.15	-48.29	PASS
Band12	3MHz	16QAM	23025	15RB#0	0.15~30	-57.45	PASS
Band12	3MHz	16QAM	23025	15RB#0	30~1000	-55.70	PASS
Band12	3MHz	16QAM	23025	15RB#0	1000~3000	-50.09	PASS
Band12	3MHz	16QAM	23025	15RB#0	3000~10000	-50.07	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.009~0.15	-47.45	PASS
Band12	3MHz	16QAM	23095	15RB#0	0.15~30	-57.15	PASS
Band12	3MHz	16QAM	23095	15RB#0	30~1000	-54.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	1000~3000	-52.66	PASS
Band12	3MHz	16QAM	23095	15RB#0	3000~10000	-49.80	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.009~0.15	-44.83	PASS
Band12	3MHz	16QAM	23165	15RB#0	0.15~30	-58.72	PASS
Band12	3MHz	16QAM	23165	15RB#0	30~1000	-55.21	PASS
Band12	3MHz	16QAM	23165	15RB#0	1000~3000	-49.81	PASS
Band12	3MHz	16QAM	23165	15RB#0	3000~10000	-50.05	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.009~0.15	-47.69	PASS
Band12	5MHz	QPSK	23035	25RB#0	0.15~30	-58.32	PASS
Band12	5MHz	QPSK	23035	25RB#0	30~1000	-55.85	PASS
Band12	5MHz	QPSK	23035	25RB#0	1000~3000	-50.44	PASS
Band12	5MHz	QPSK	23035	25RB#0	3000~10000	-50.03	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.009~0.15	-49.01	PASS
Band12	5MHz	QPSK	23095	25RB#0	0.15~30	-57.27	PASS
Band12	5MHz	QPSK	23095	25RB#0	30~1000	-49.13	PASS
Band12	5MHz	QPSK	23095	25RB#0	1000~3000	-52.04	PASS
Band12	5MHz	QPSK	23095	25RB#0	3000~10000	-49.75	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.009~0.15	-48.37	PASS
Band12	5MHz	QPSK	23155	25RB#0	0.15~30	-59.35	PASS
Band12	5MHz	QPSK	23155	25RB#0	30~1000	-56.12	PASS
Band12	5MHz	QPSK	23155	25RB#0	1000~3000	-51.38	PASS
Band12	5MHz	QPSK	23155	25RB#0	3000~10000	-49.72	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.009~0.15	-47.75	PASS
Band12	5MHz	16QAM	23035	25RB#0	0.15~30	-58.15	PASS
Band12	5MHz	16QAM	23035	25RB#0	30~1000	-58.53	PASS
Band12	5MHz	16QAM	23035	25RB#0	1000~3000	-50.68	PASS

Band12	5MHz	16QAM	23035	25RB#0	3000~10000	-50.00	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.009~0.15	-48.91	PASS
Band12	5MHz	16QAM	23095	25RB#0	0.15~30	-59.67	PASS
Band12	5MHz	16QAM	23095	25RB#0	30~1000	-56.55	PASS
Band12	5MHz	16QAM	23095	25RB#0	1000~3000	-52.21	PASS
Band12	5MHz	16QAM	23095	25RB#0	3000~10000	-49.94	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.009~0.15	-45.26	PASS
Band12	5MHz	16QAM	23155	25RB#0	0.15~30	-56.42	PASS
Band12	5MHz	16QAM	23155	25RB#0	30~1000	-57.36	PASS
Band12	5MHz	16QAM	23155	25RB#0	1000~3000	-51.69	PASS
Band12	5MHz	16QAM	23155	25RB#0	3000~10000	-50.08	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.009~0.15	-48.44	PASS
Band12	10MHz	QPSK	23060	50RB#0	0.15~30	-59.39	PASS
Band12	10MHz	QPSK	23060	50RB#0	30~1000	-65.12	PASS
Band12	10MHz	QPSK	23060	50RB#0	1000~3000	-52.30	PASS
Band12	10MHz	QPSK	23060	50RB#0	3000~10000	-49.96	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.009~0.15	-48.80	PASS
Band12	10MHz	QPSK	23095	50RB#0	0.15~30	-58.09	PASS
Band12	10MHz	QPSK	23095	50RB#0	30~1000	-64.28	PASS
Band12	10MHz	QPSK	23095	50RB#0	1000~3000	-52.00	PASS
Band12	10MHz	QPSK	23095	50RB#0	3000~10000	-49.47	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.009~0.15	-48.28	PASS
Band12	10MHz	QPSK	23130	50RB#0	0.15~30	-59.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	30~1000	-65.18	PASS
Band12	10MHz	QPSK	23130	50RB#0	1000~3000	-52.38	PASS
Band12	10MHz	QPSK	23130	50RB#0	3000~10000	-49.89	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.009~0.15	-47.67	PASS
Band12	10MHz	16QAM	23060	50RB#0	0.15~30	-57.69	PASS
Band12	10MHz	16QAM	23060	50RB#0	30~1000	-64.84	PASS
Band12	10MHz	16QAM	23060	50RB#0	1000~3000	-52.15	PASS
Band12	10MHz	16QAM	23060	50RB#0	3000~10000	-49.84	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.009~0.15	-45.37	PASS
Band12	10MHz	16QAM	23095	50RB#0	0.15~30	-57.65	PASS
Band12	10MHz	16QAM	23095	50RB#0	30~1000	-65.60	PASS
Band12	10MHz	16QAM	23095	50RB#0	1000~3000	-52.43	PASS
Band12	10MHz	16QAM	23095	50RB#0	3000~10000	-49.67	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.009~0.15	-48.15	PASS
Band12	10MHz	16QAM	23130	50RB#0	0.15~30	-58.27	PASS
Band12	10MHz	16QAM	23130	50RB#0	30~1000	-63.92	PASS
Band12	10MHz	16QAM	23130	50RB#0	1000~3000	-51.93	PASS
Band12	10MHz	16QAM	23130	50RB#0	3000~10000	-49.95	PASS

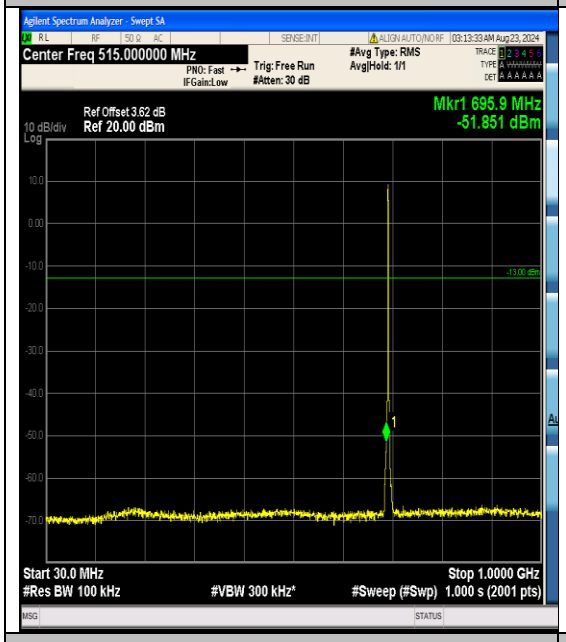
Test Graphs



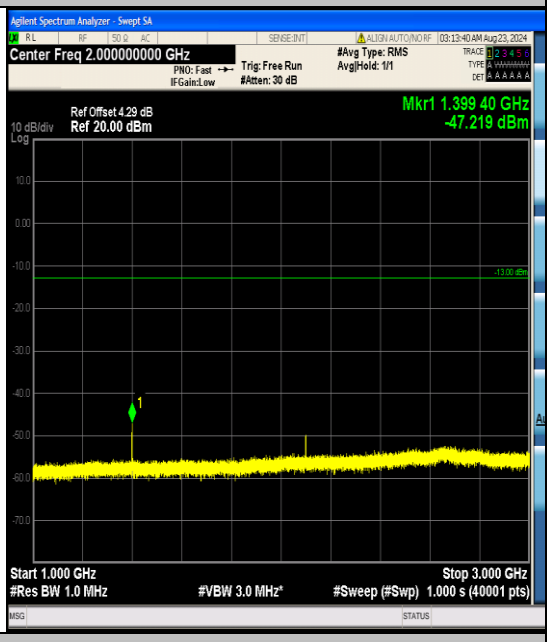
Band12_1.4MHz_QPSK_23017_6RB#0_0.009~0.15_0.009~0.15



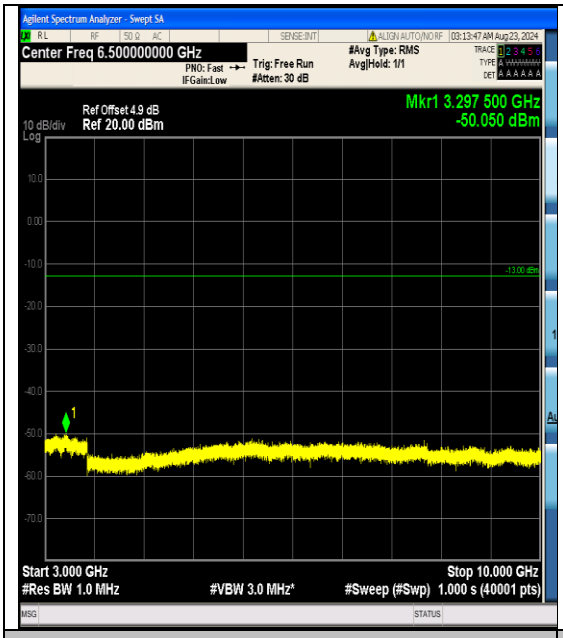
Band12_1.4MHz_QPSK_23017_6RB#0_0.15~30_0.15~30



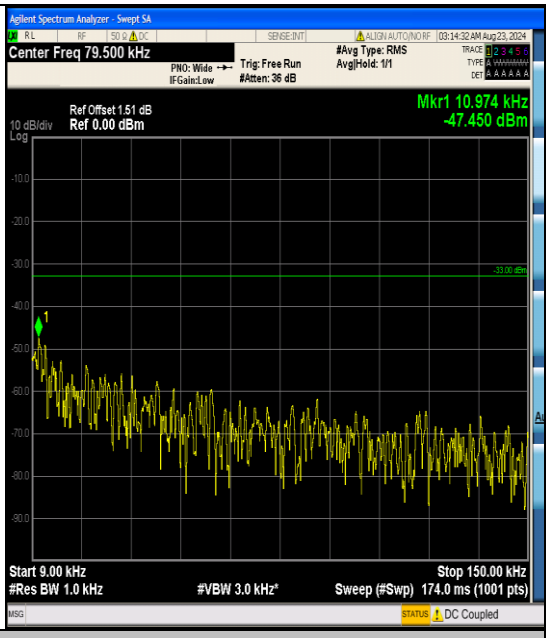
Band12_1.4MHz_QPSK_23017_6RB#0_30~1000_30~1000



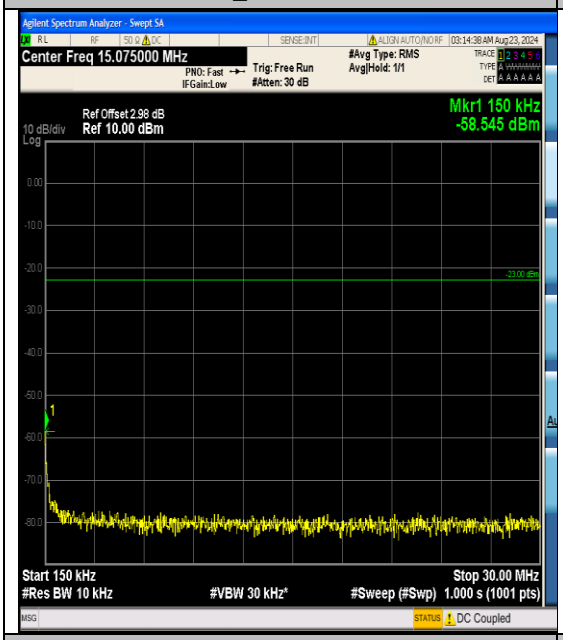
Band12_1.4MHz_QPSK_23017_6RB#0_1000~3000_1000~3000



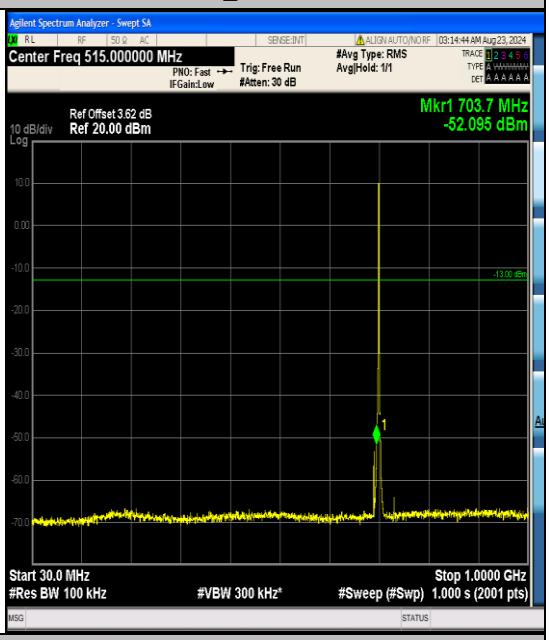
Band12_1.4MHz_QPSK_23017_6RB#0_3000~10000_3000~10000



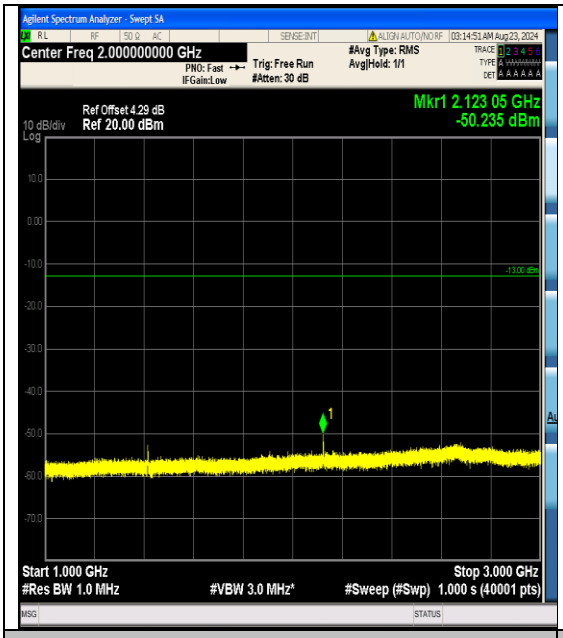
Band12_1.4MHz_QPSK_23095_6RB#0_0.009~0.15_0.009~0.15



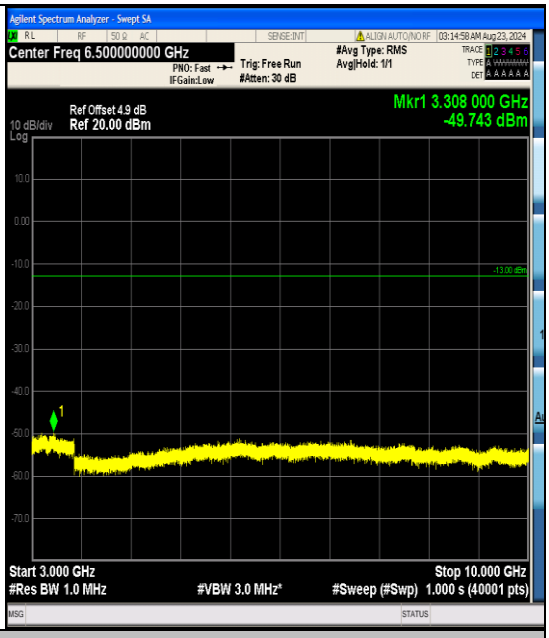
Band12_1.4MHz_QPSK_23095_6RB#0_0.15~30_0.15~30



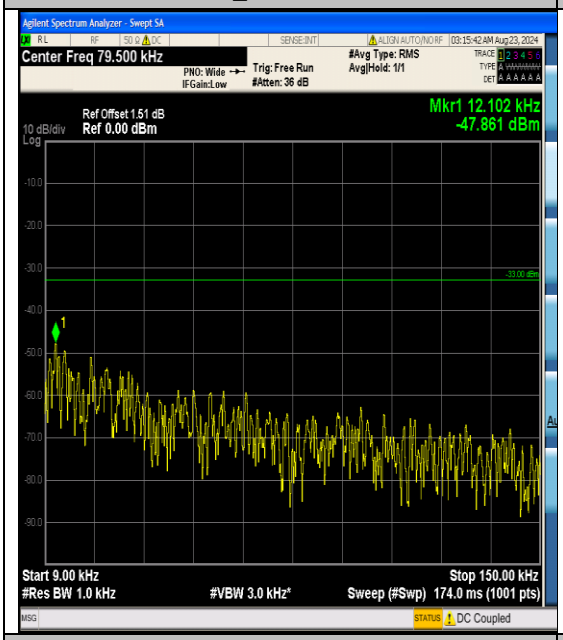
Band12_1.4MHz_QPSK_23095_6RB#0_30~1000_30~1000



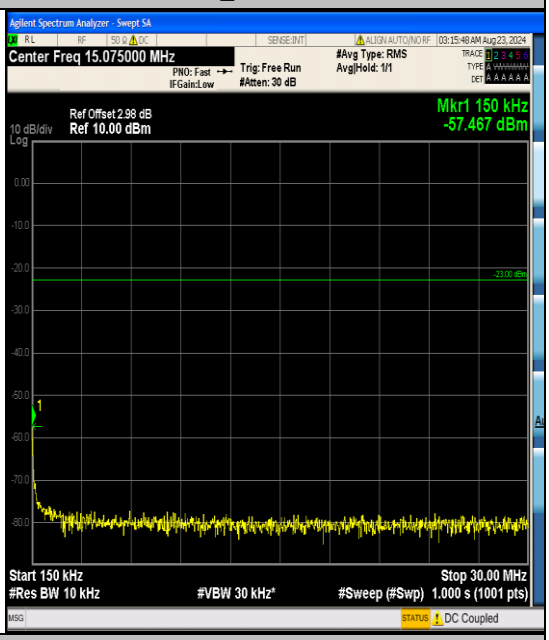
Band12_1.4MHz_QPSK_23095_6RB#0_1000~3000_1000~3000



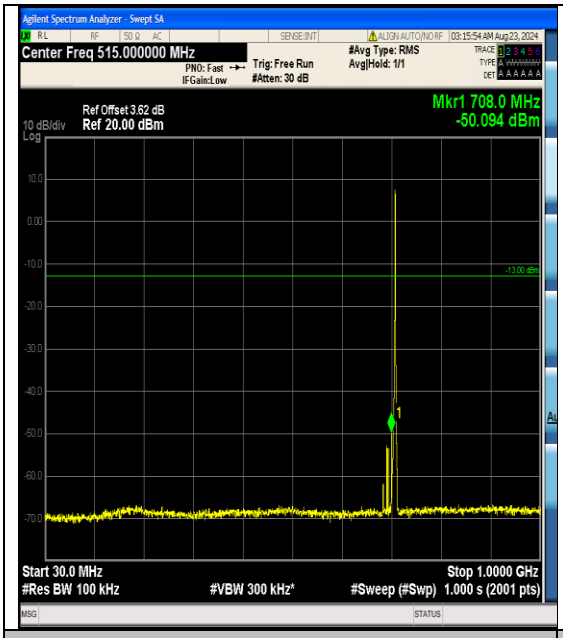
Band12_1.4MHz_QPSK_23095_6RB#0_3000~10000_3000~10000



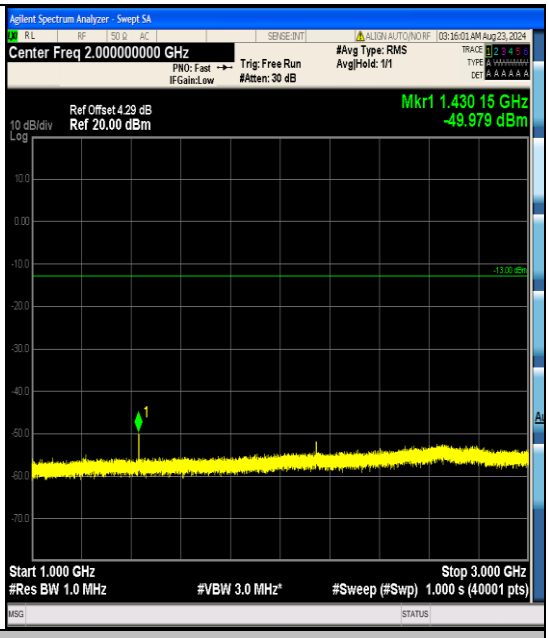
Band12_1.4MHz_QPSK_23173_6RB#0_0.009~0.15_0.009~0.15



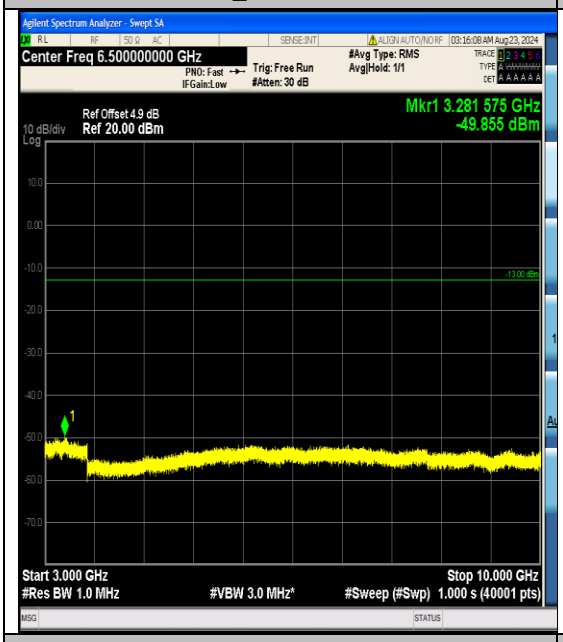
Band12_1.4MHz_QPSK_23173_6RB#0_0.15~30_0.15~30



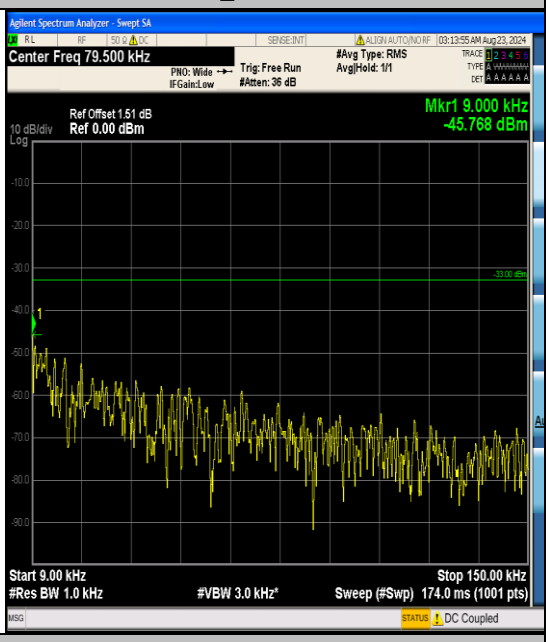
Band12_1.4MHz_QPSK_23173_6RB#0_30~1000_30~1000



Band12_1.4MHz_QPSK_23173_6RB#0_1000~3000_1000~3000



Band12_1.4MHz_QPSK_23173_6RB#0_3000~10000_3000~10000



Band12_1.4MHz_16QAM_23017_6RB#0_0.009~0.15_0.009~0.15