FCC LTE Band Test Data

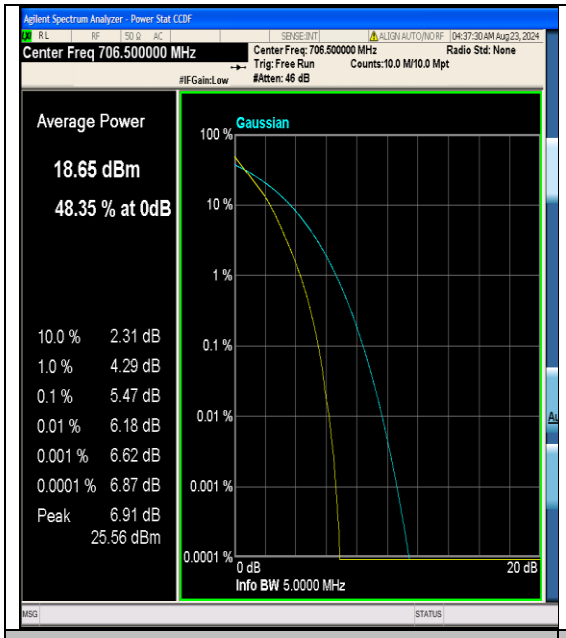
FCC ID	**:**	**2BKLE-ARIES**
Company:	**:**	**Versa World Inc.**
EUT	**:**	**POC/IP Two Way Radio**
Model Number	**:**	**G232**
Reviewed By	**:**	**Eric Wang**

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

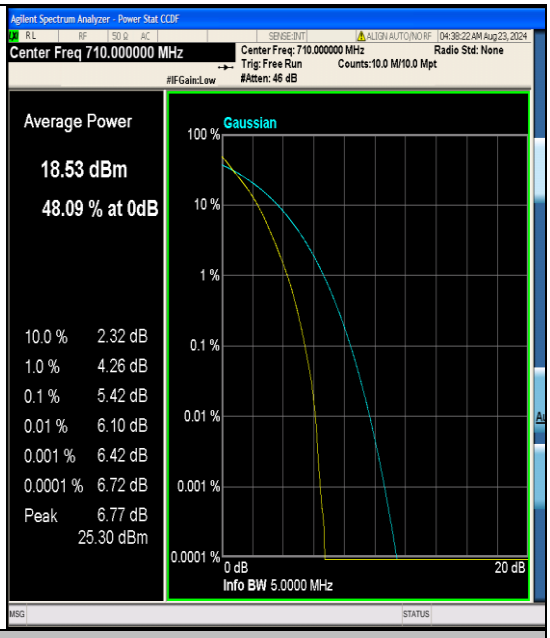
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	5.47	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.42	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.20	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.14	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.08	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.88	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.44	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.41	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.34	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.13	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.14	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.04	13	PASS

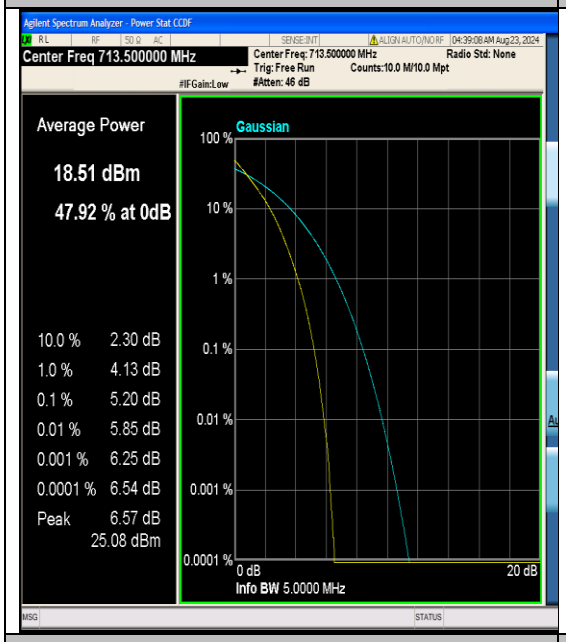
Test Graphs



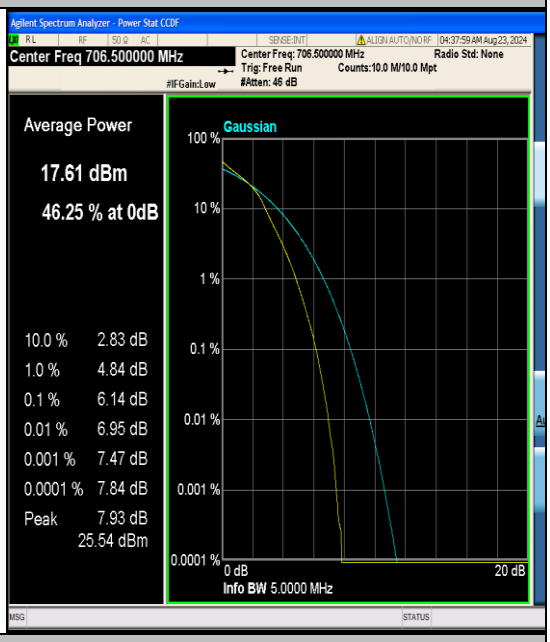
Band17-5MHz-QPSK-23755-25RB#0-PASS



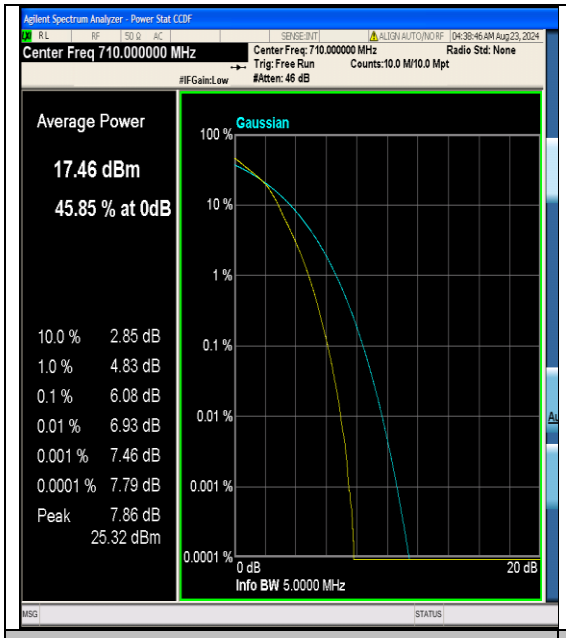
Band17-5MHz-QPSK-23790-25RB#0-PASS



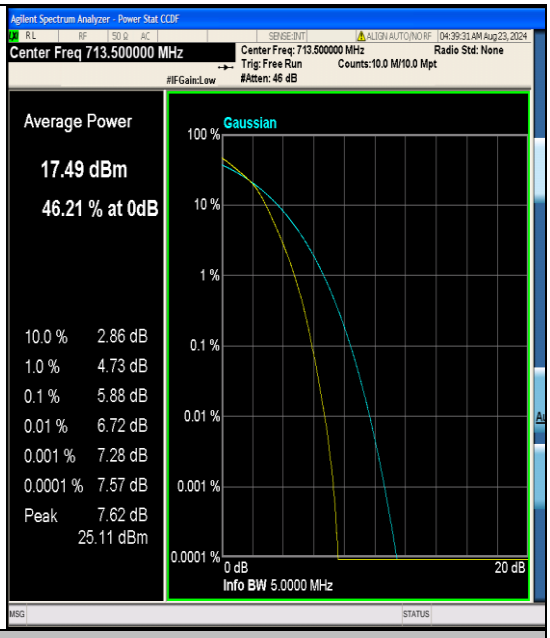
Band17-5MHz-QPSK-23825-25RB#0-PASS



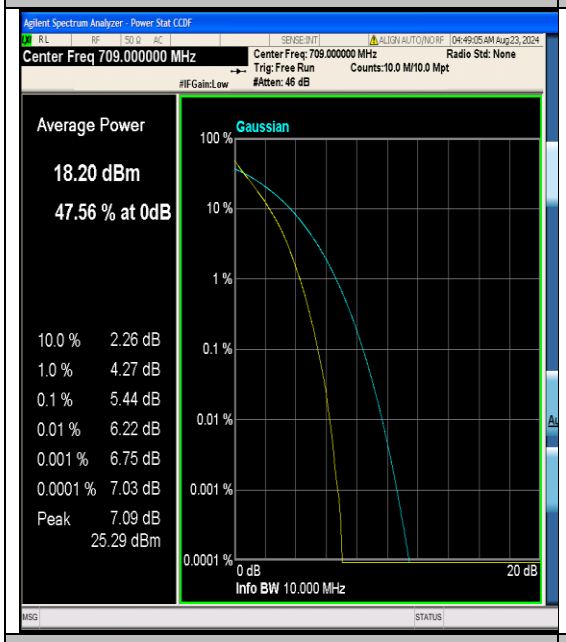
Band17-5MHz-16QAM-23755-25RB#0-PASS



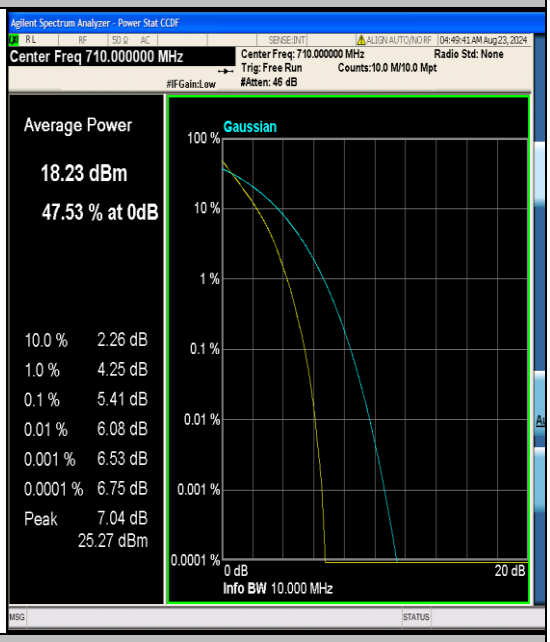
Band17-5MHz-16QAM-23790-25RB#0-PASS



Band17-5MHz-16QAM-23825-25RB#0-PASS

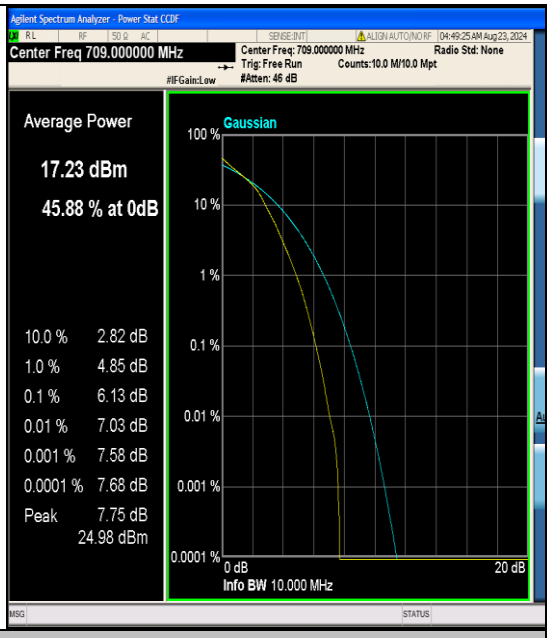


Band17-10MHz-QPSK-23780-50RB#0-PASS

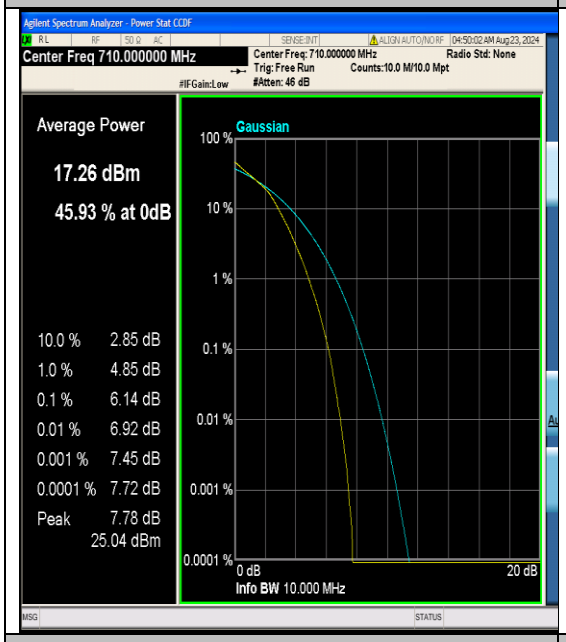


Band17-10MHz-QPSK-23790-50RB#0-PASS

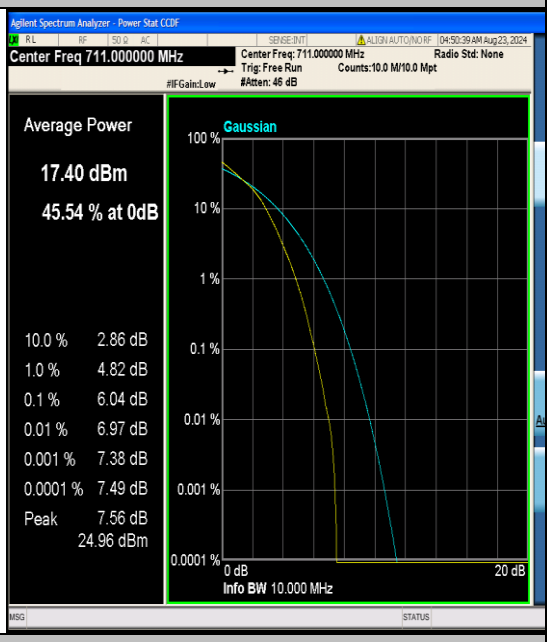
Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23780-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS



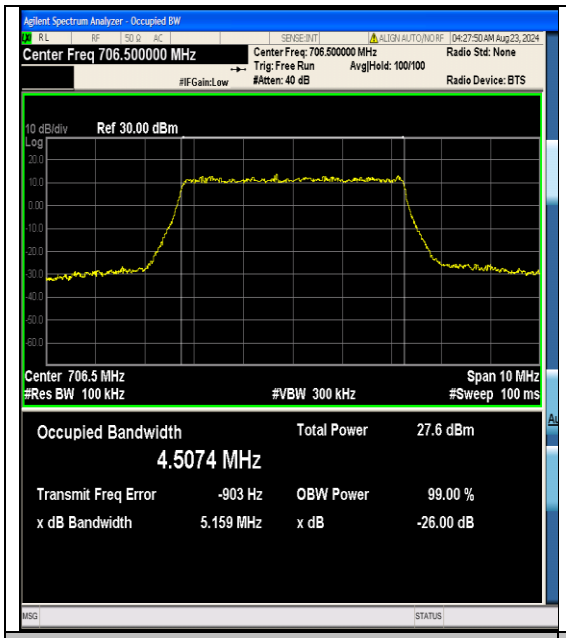
Band17-10MHz-16QAM-23800-50RB#0-PASS

Appendix C: 26dB Bandwidth and Occupied Bandwidth

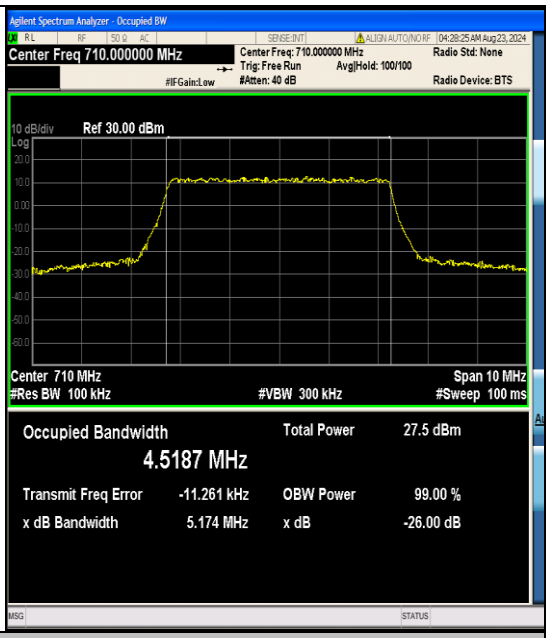
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5074	5.159	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5187	5.174	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5230	5.225	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5224	5.173	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5342	5.196	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5205	5.162	PASS
Band17	10MHz	QPSK	23780	50RB#0	9.0177	10.15	PASS
Band17	10MHz	QPSK	23790	50RB#0	9.0197	10.15	PASS
Band17	10MHz	QPSK	23800	50RB#0	9.0039	10.16	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9989	10.10	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9962	10.05	PASS
Band17	10MHz	16QAM	23800	50RB#0	9.0094	10.10	PASS

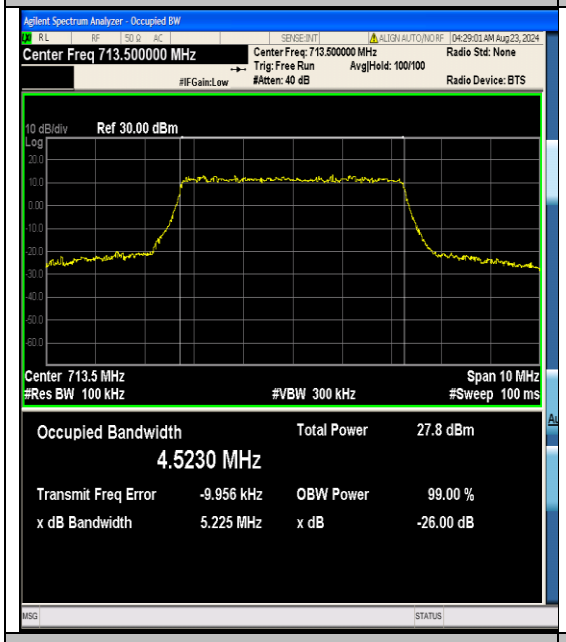
Test Graphs



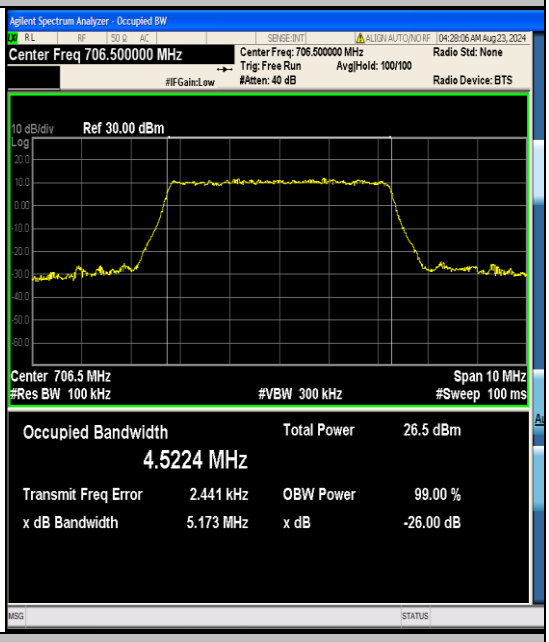
Band17-5MHz-QPSK-23755-25RB#0-PASS



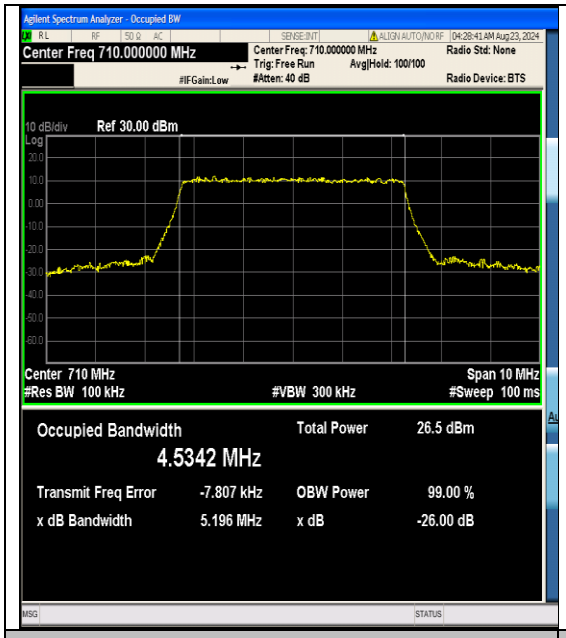
Band17-5MHz-QPSK-23790-25RB#0-PASS



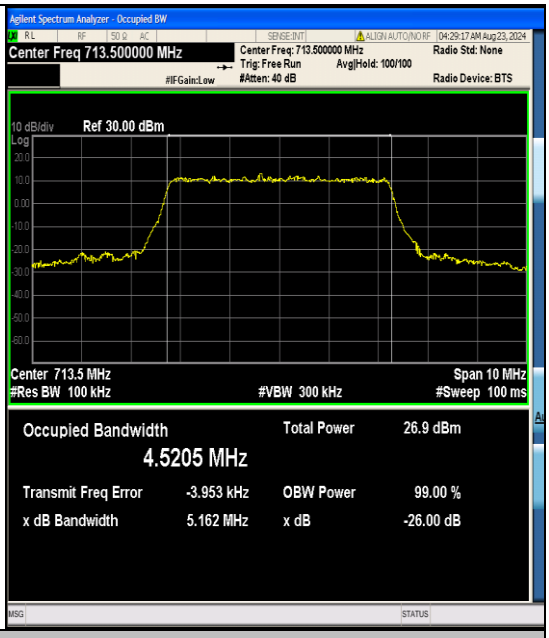
Band17-5MHz-QPSK-23825-25RB#0-PASS



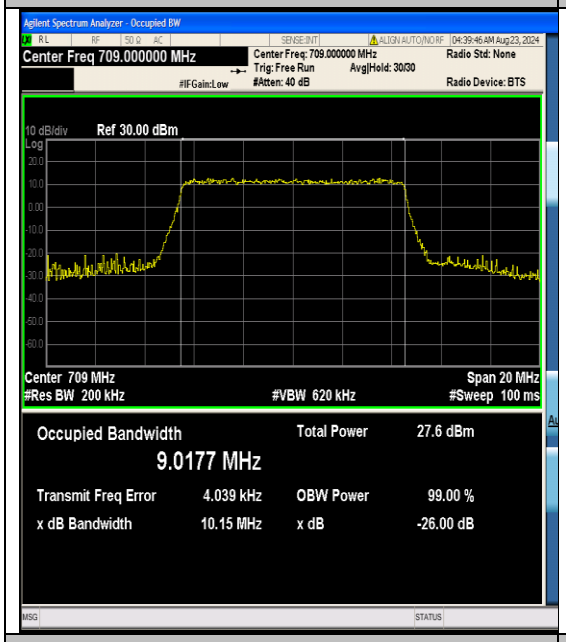
Band17-5MHz-16QAM-23755-25RB#0-PASS



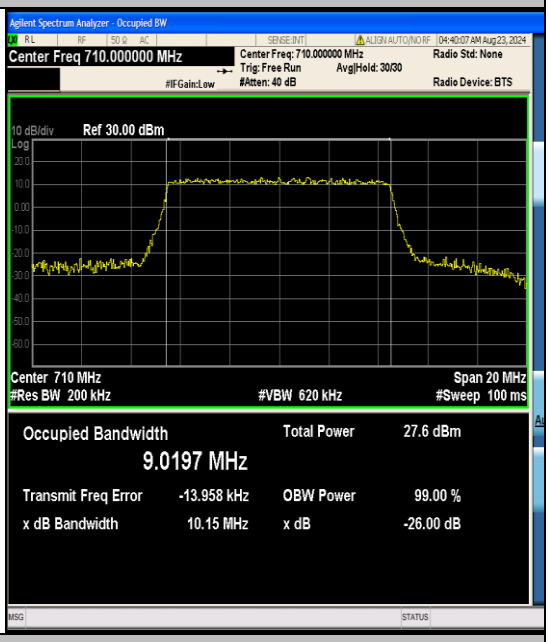
Band17-5MHz-16QAM-23790-25RB#0-PASS



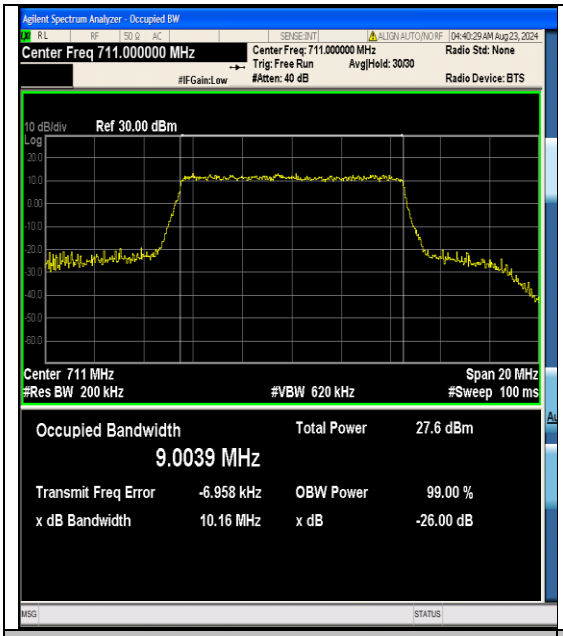
Band17-5MHz-16QAM-23825-25RB#0-PASS



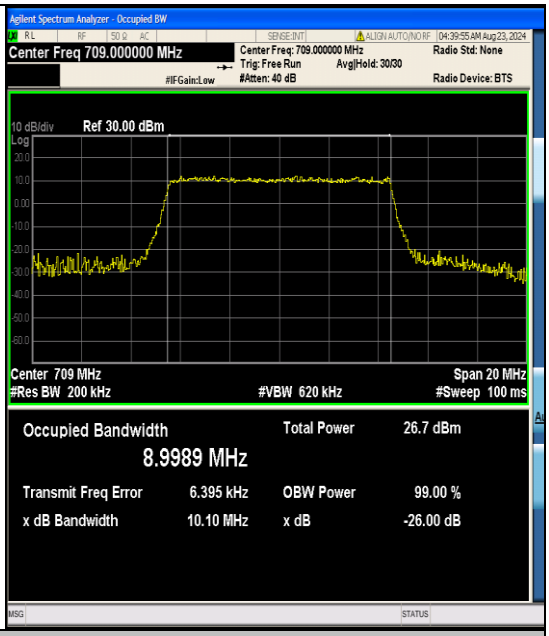
Band17-10MHz-QPSK-23780-50RB#0-PASS



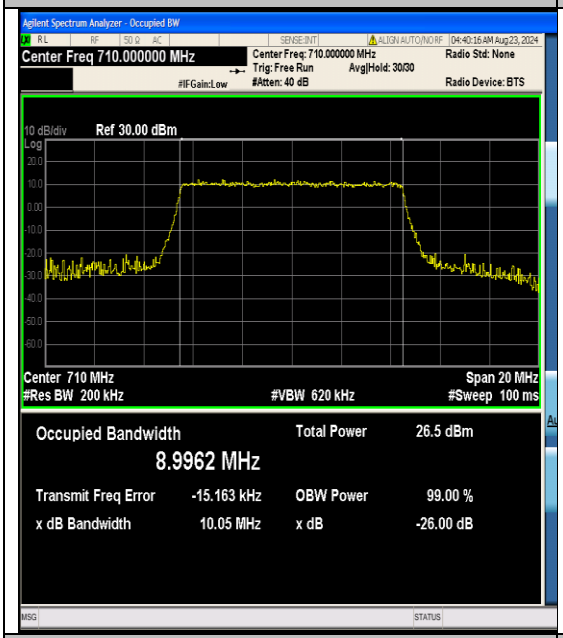
Band17-10MHz-QPSK-23790-50RB#0-PASS



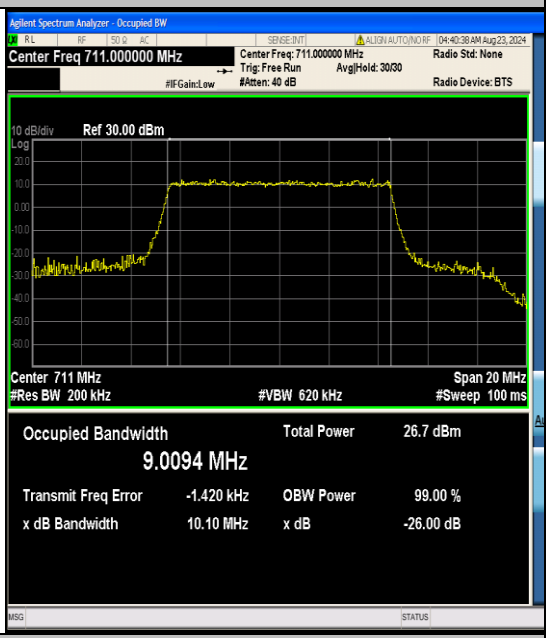
Band17-10MHz-QPSK-23800-50RB#0-PASS



Band17-10MHz-16QAM-23780-50RB#0-PASS



Band17-10MHz-16QAM-23790-50RB#0-PASS



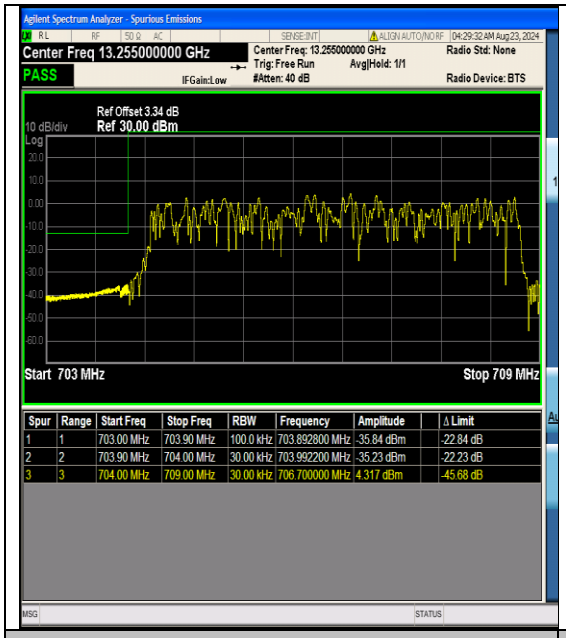
Band17-10MHz-16QAM-23800-50RB#0-PASS

Appendix D: Band Edge

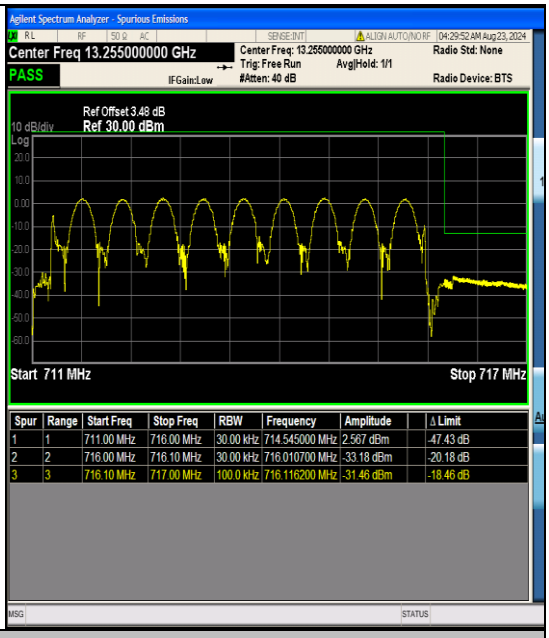
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	-35.23	PASS
Band17	5MHz	QPSK	23825	25RB#0	-31.46	PASS
Band17	5MHz	16QAM	23755	25RB#0	-37.22	PASS
Band17	5MHz	16QAM	23825	25RB#0	-33.91	PASS
Band17	10MHz	QPSK	23780	50RB#0	-39.20	PASS
Band17	10MHz	QPSK	23800	50RB#0	-36.76	PASS
Band17	10MHz	16QAM	23780	50RB#0	-41.57	PASS
Band17	10MHz	16QAM	23800	50RB#0	-39.23	PASS

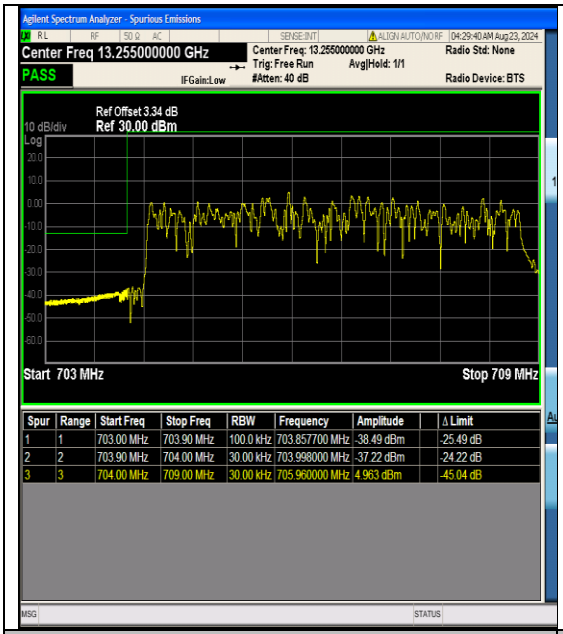
Test Graphs



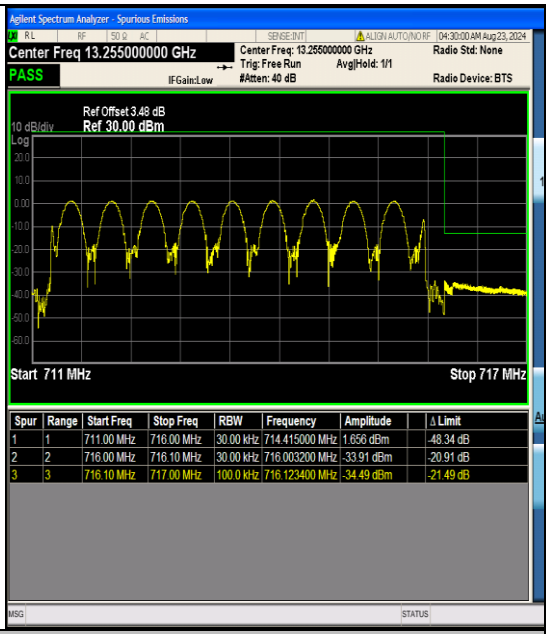
Band17_5MHz_QPSK_23755_25RB#0



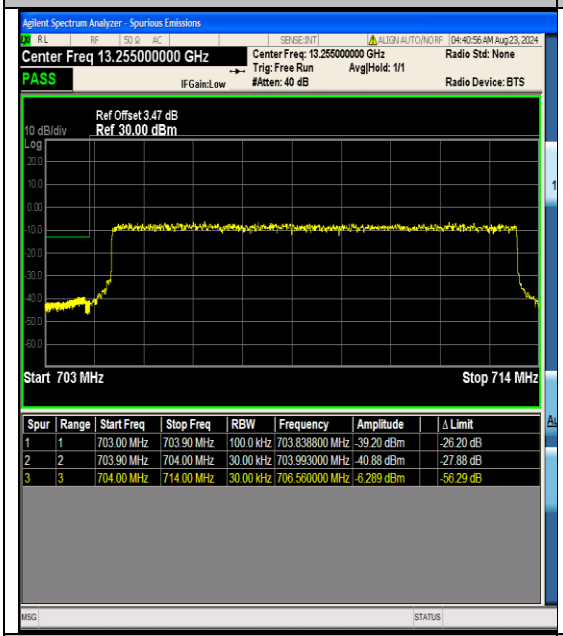
Band17_5MHz_QPSK_23825_25RB#0



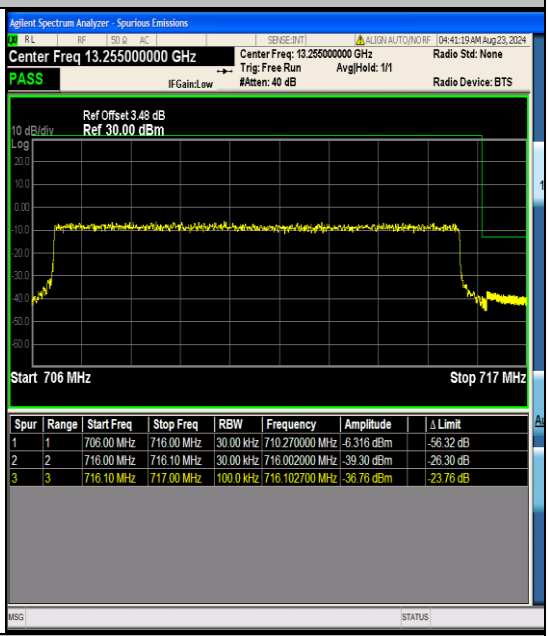
Band17_5MHz_16QAM_23755_25RB#0



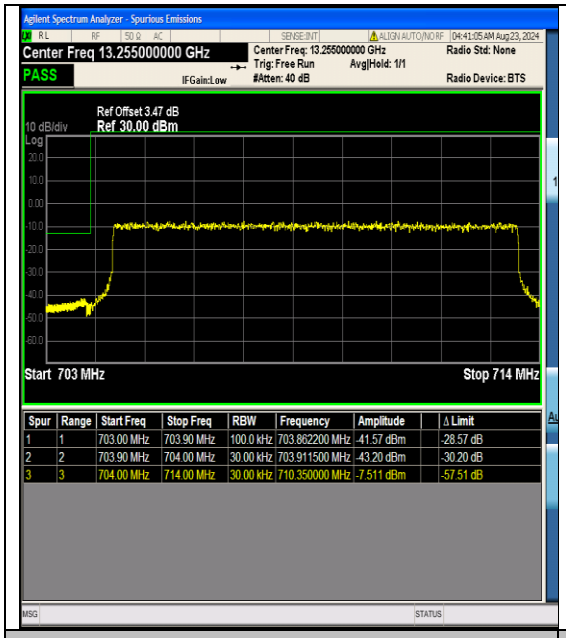
Band17_5MHz_16QAM_23825_25RB#0



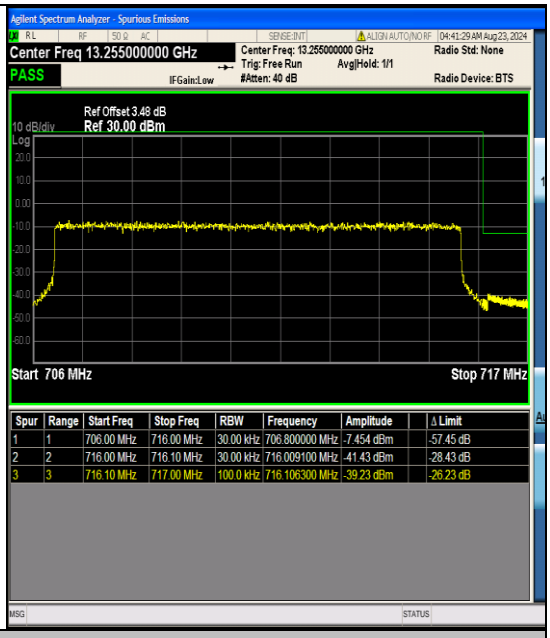
Band17_10MHz_QPSK_23780_50RB#0



Band17_10MHz_QPSK_23800_50RB#0



Band17_10MHz_16QAM_23780_50RB#0



Band17_10MHz_16QAM_23800_50RB#0

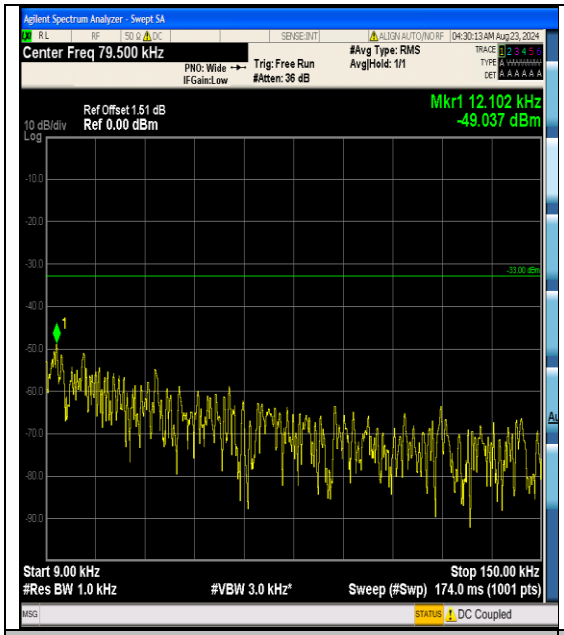
Appendix E: Conducted Spurious Emission

Test Result

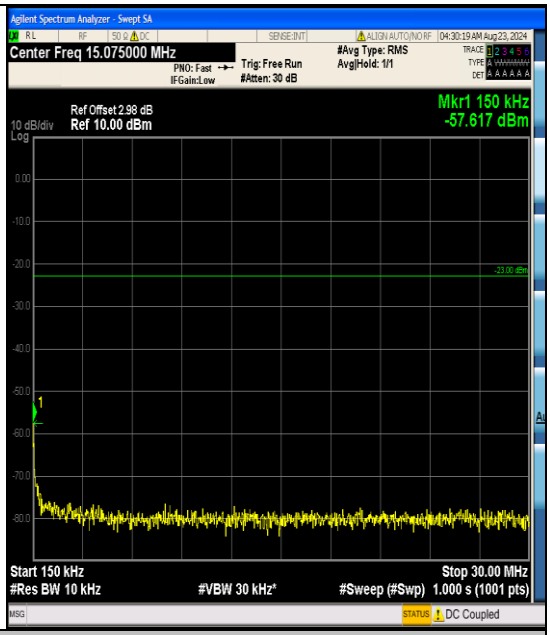
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	0.009~0.15	-49.04	PASS
Band17	5MHz	QPSK	23755	25RB#0	0.15~30	-57.62	PASS
Band17	5MHz	QPSK	23755	25RB#0	30~1000	-54.64	PASS
Band17	5MHz	QPSK	23755	25RB#0	1000~3000	-52.36	PASS
Band17	5MHz	QPSK	23755	25RB#0	3000~10000	-49.88	PASS
Band17	5MHz	QPSK	23790	25RB#0	0.009~0.15	-48.43	PASS
Band17	5MHz	QPSK	23790	25RB#0	0.15~30	-58.54	PASS
Band17	5MHz	QPSK	23790	25RB#0	30~1000	-49.49	PASS
Band17	5MHz	QPSK	23790	25RB#0	1000~3000	-52.33	PASS
Band17	5MHz	QPSK	23790	25RB#0	3000~10000	-49.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	0.009~0.15	-48.56	PASS
Band17	5MHz	QPSK	23825	25RB#0	0.15~30	-56.73	PASS
Band17	5MHz	QPSK	23825	25RB#0	30~1000	-53.33	PASS
Band17	5MHz	QPSK	23825	25RB#0	1000~3000	-51.70	PASS
Band17	5MHz	QPSK	23825	25RB#0	3000~10000	-50.25	PASS
Band17	5MHz	16QAM	23755	25RB#0	0.009~0.15	-50.21	PASS
Band17	5MHz	16QAM	23755	25RB#0	0.15~30	-58.33	PASS
Band17	5MHz	16QAM	23755	25RB#0	30~1000	-53.81	PASS
Band17	5MHz	16QAM	23755	25RB#0	1000~3000	-52.33	PASS
Band17	5MHz	16QAM	23755	25RB#0	3000~10000	-50.05	PASS
Band17	5MHz	16QAM	23790	25RB#0	0.009~0.15	-46.15	PASS
Band17	5MHz	16QAM	23790	25RB#0	0.15~30	-57.90	PASS
Band17	5MHz	16QAM	23790	25RB#0	30~1000	-50.86	PASS
Band17	5MHz	16QAM	23790	25RB#0	1000~3000	-52.10	PASS
Band17	5MHz	16QAM	23790	25RB#0	3000~10000	-50.07	PASS
Band17	5MHz	16QAM	23825	25RB#0	0.009~0.15	-48.95	PASS
Band17	5MHz	16QAM	23825	25RB#0	0.15~30	-57.31	PASS
Band17	5MHz	16QAM	23825	25RB#0	30~1000	-53.41	PASS
Band17	5MHz	16QAM	23825	25RB#0	1000~3000	-51.31	PASS
Band17	5MHz	16QAM	23825	25RB#0	3000~10000	-50.30	PASS
Band17	10MHz	QPSK	23780	50RB#0	0.009~0.15	-49.19	PASS
Band17	10MHz	QPSK	23780	50RB#0	0.15~30	-58.92	PASS
Band17	10MHz	QPSK	23780	50RB#0	30~1000	-66.65	PASS
Band17	10MHz	QPSK	23780	50RB#0	1000~3000	-52.35	PASS
Band17	10MHz	QPSK	23780	50RB#0	3000~10000	-49.99	PASS
Band17	10MHz	QPSK	23790	50RB#0	0.009~0.15	-45.97	PASS

Band17	10MHz	QPSK	23790	50RB#0	0.15~30	-60.45	PASS
Band17	10MHz	QPSK	23790	50RB#0	30~1000	-66.49	PASS
Band17	10MHz	QPSK	23790	50RB#0	1000~3000	-52.43	PASS
Band17	10MHz	QPSK	23790	50RB#0	3000~10000	-49.58	PASS
Band17	10MHz	QPSK	23800	50RB#0	0.009~0.15	-50.03	PASS
Band17	10MHz	QPSK	23800	50RB#0	0.15~30	-60.37	PASS
Band17	10MHz	QPSK	23800	50RB#0	30~1000	-66.46	PASS
Band17	10MHz	QPSK	23800	50RB#0	1000~3000	-52.49	PASS
Band17	10MHz	QPSK	23800	50RB#0	3000~10000	-50.25	PASS
Band17	10MHz	16QAM	23780	50RB#0	0.009~0.15	-47.92	PASS
Band17	10MHz	16QAM	23780	50RB#0	0.15~30	-57.31	PASS
Band17	10MHz	16QAM	23780	50RB#0	30~1000	-66.40	PASS
Band17	10MHz	16QAM	23780	50RB#0	1000~3000	-52.17	PASS
Band17	10MHz	16QAM	23780	50RB#0	3000~10000	-49.42	PASS
Band17	10MHz	16QAM	23790	50RB#0	0.009~0.15	-47.11	PASS
Band17	10MHz	16QAM	23790	50RB#0	0.15~30	-60.79	PASS
Band17	10MHz	16QAM	23790	50RB#0	30~1000	-66.39	PASS
Band17	10MHz	16QAM	23790	50RB#0	1000~3000	-52.48	PASS
Band17	10MHz	16QAM	23790	50RB#0	3000~10000	-50.19	PASS
Band17	10MHz	16QAM	23800	50RB#0	0.009~0.15	-47.33	PASS
Band17	10MHz	16QAM	23800	50RB#0	0.15~30	-55.43	PASS
Band17	10MHz	16QAM	23800	50RB#0	30~1000	-66.70	PASS
Band17	10MHz	16QAM	23800	50RB#0	1000~3000	-52.30	PASS
Band17	10MHz	16QAM	23800	50RB#0	3000~10000	-50.01	PASS

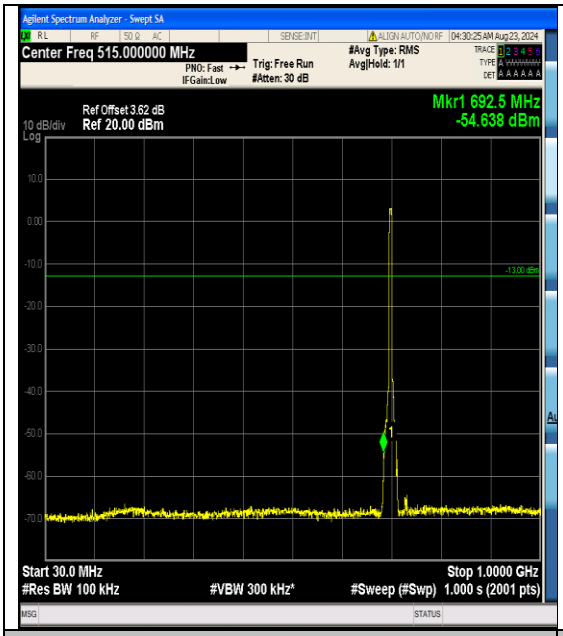
Test Graphs



Band17_5MHz_QPSK_23755_25RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_QPSK_23755_25RB#0_0.15~30_0.15~30



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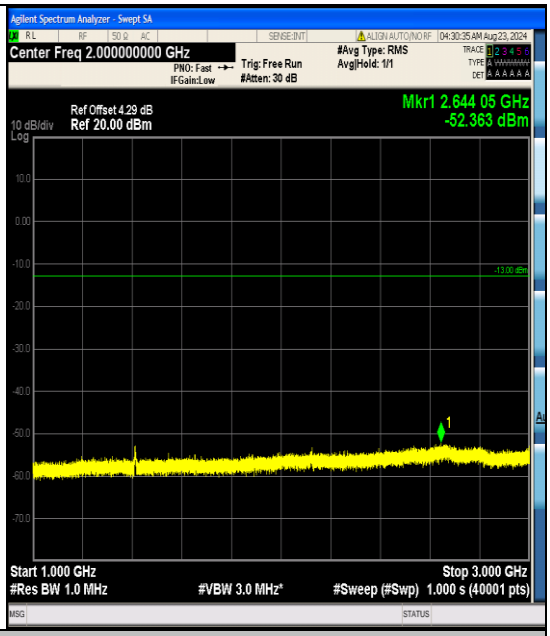

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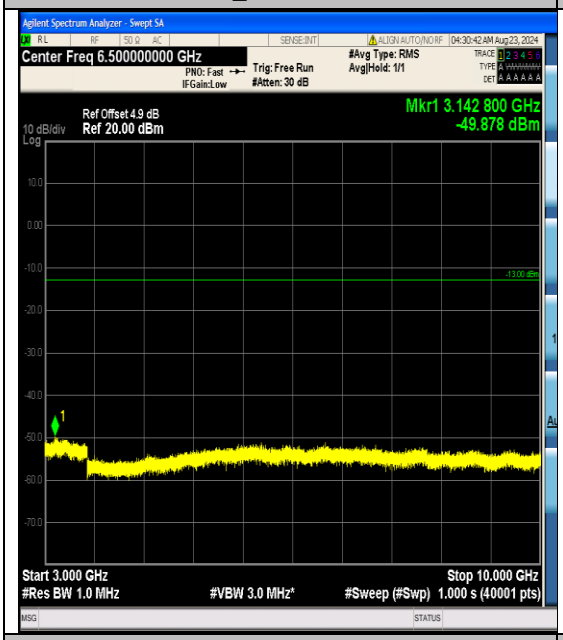

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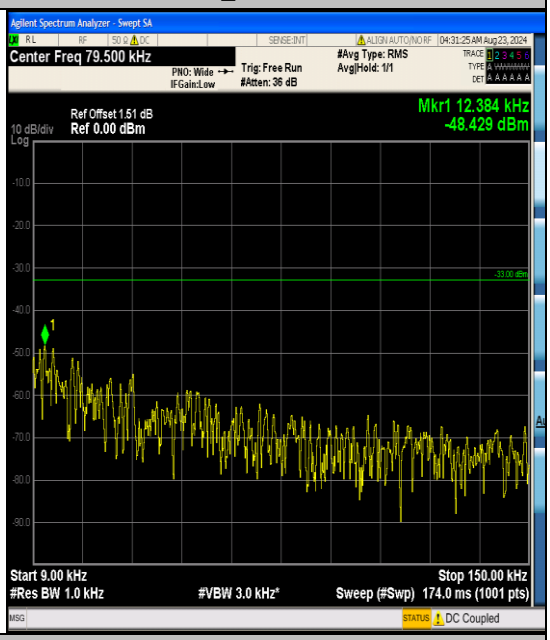

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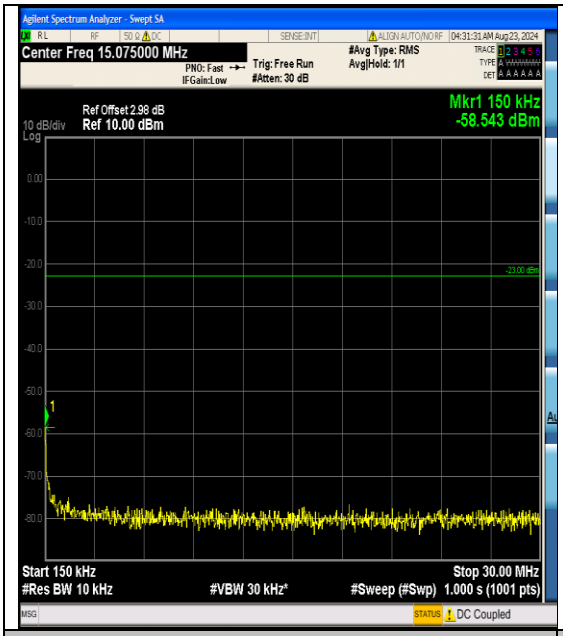

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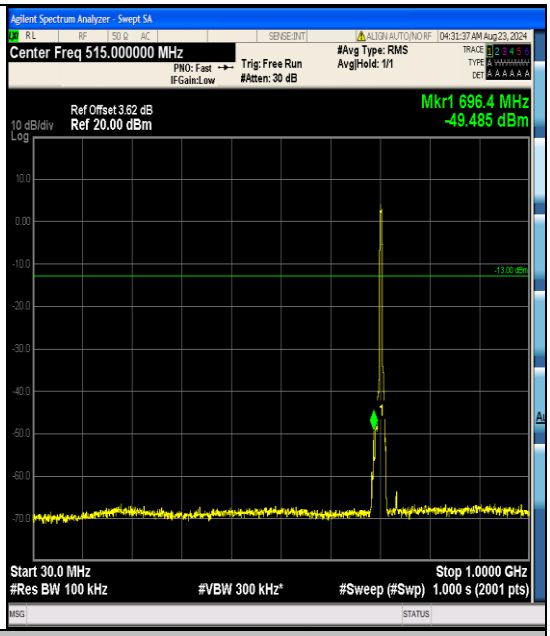

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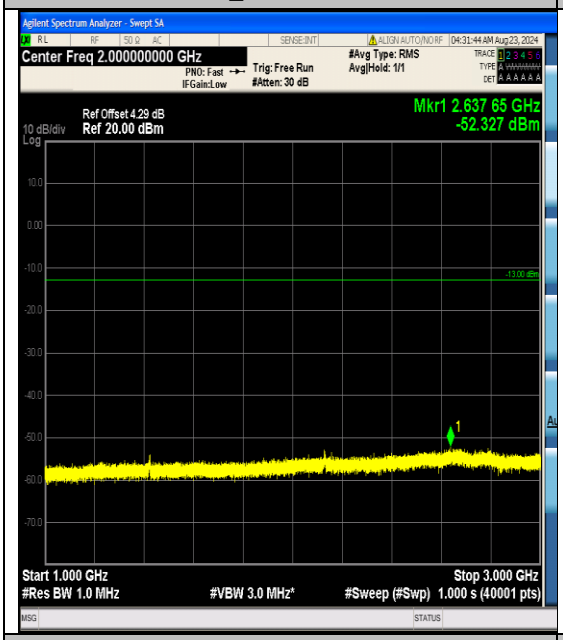

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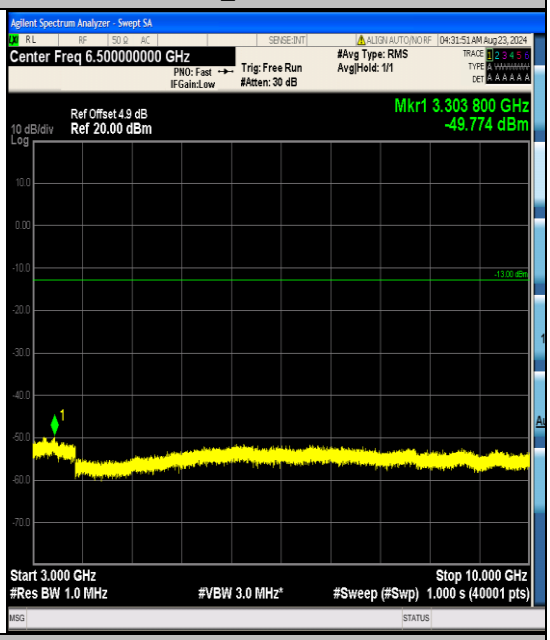

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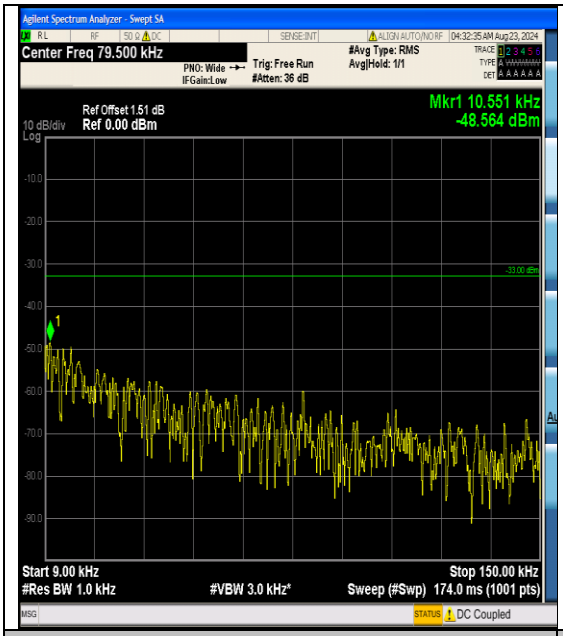

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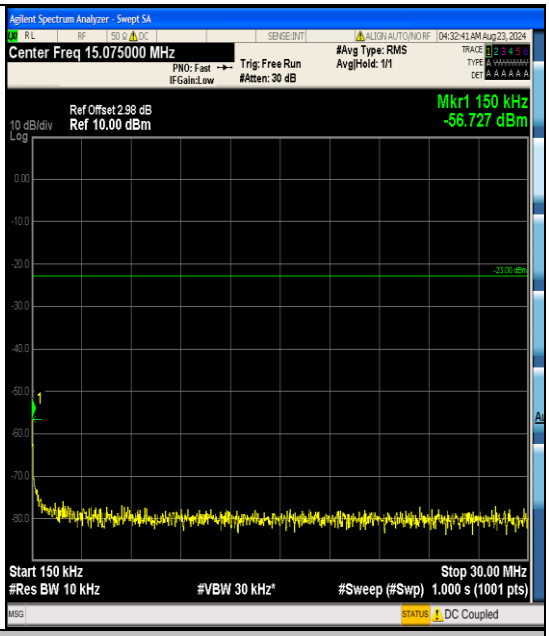

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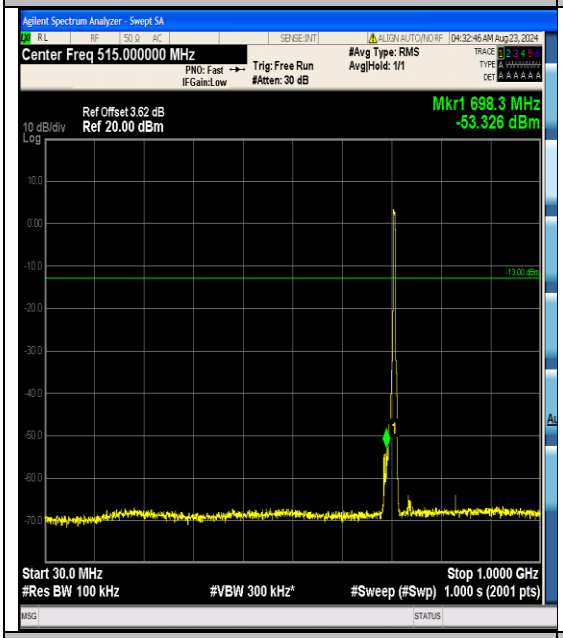

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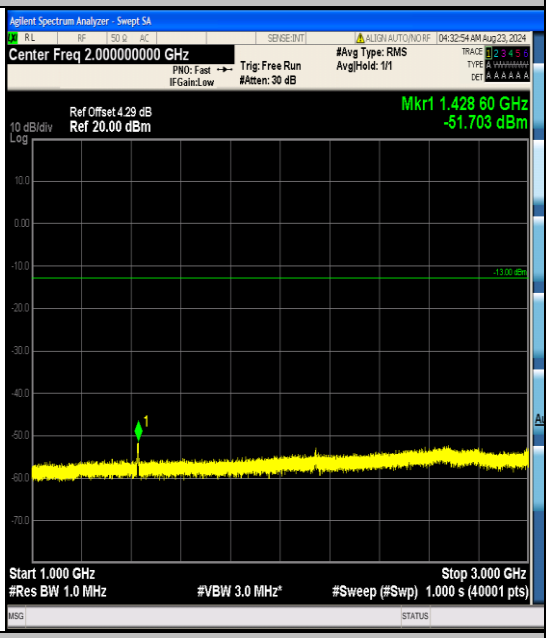
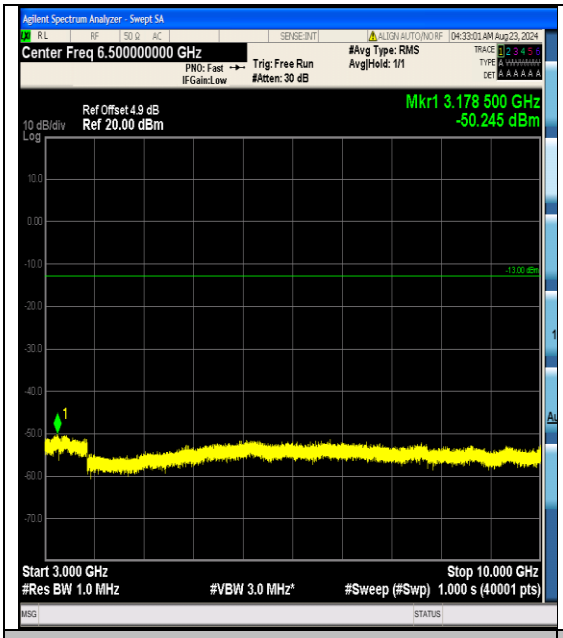


Band17_5MHz_QPSK_23825_25RB#0_1000~3000_1000~3000



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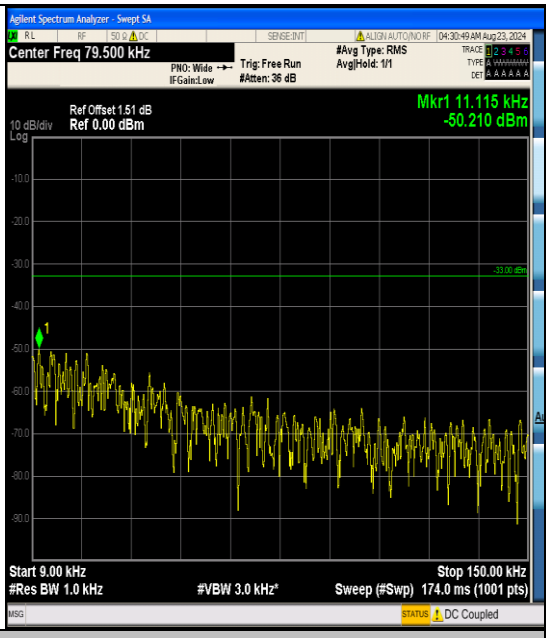

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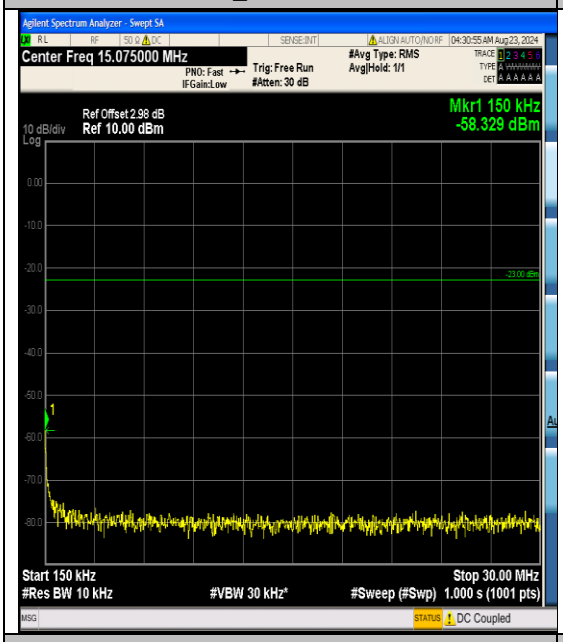

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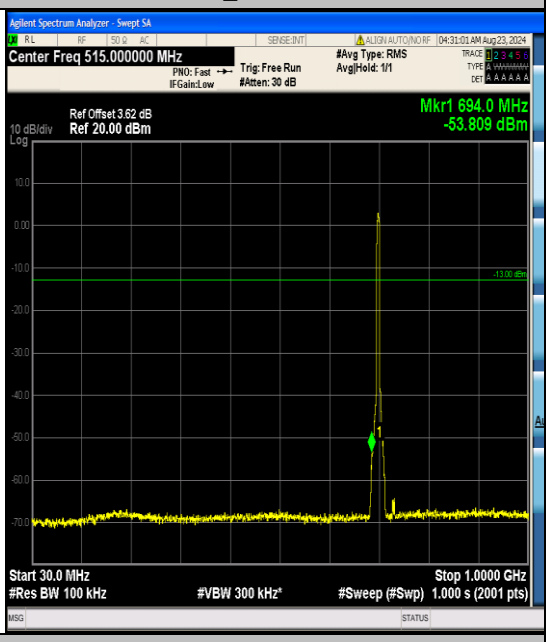

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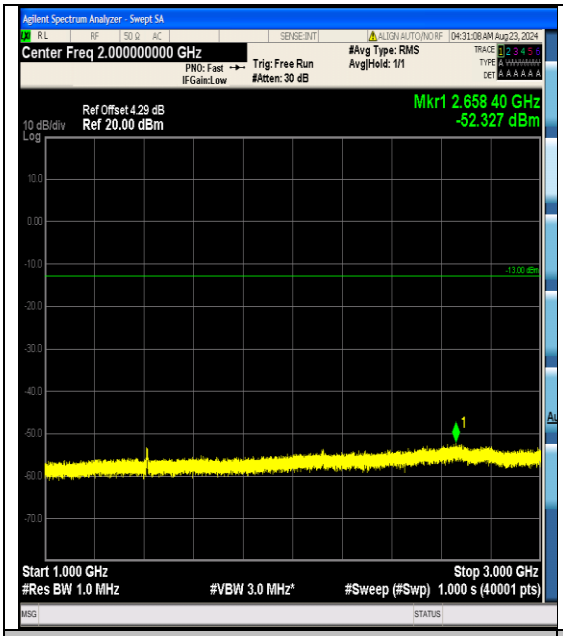
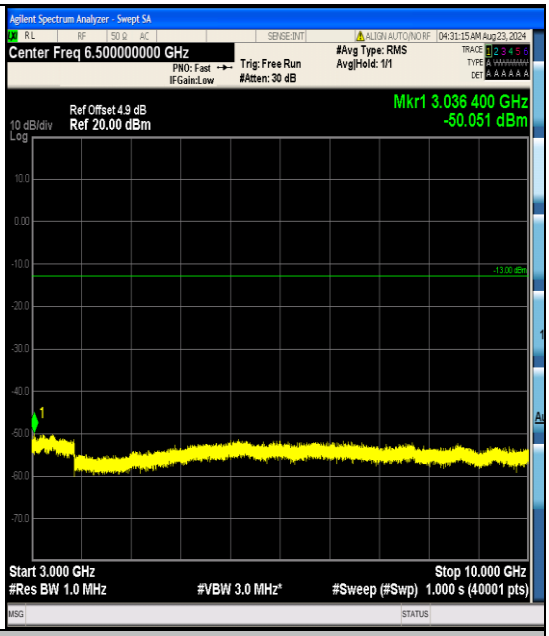


Band17_5MHz_16QAM_23755_25RB#0_1000~3000_1000~3000



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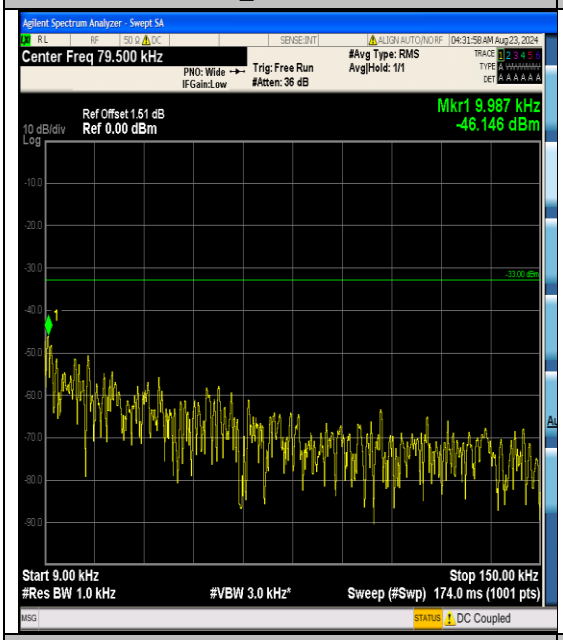

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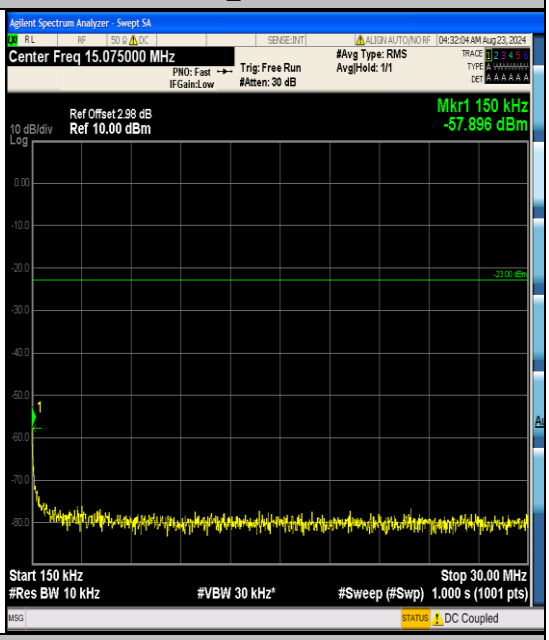

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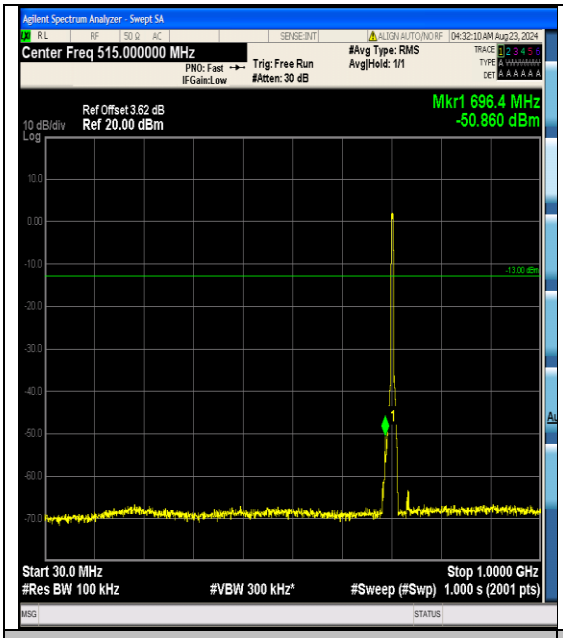

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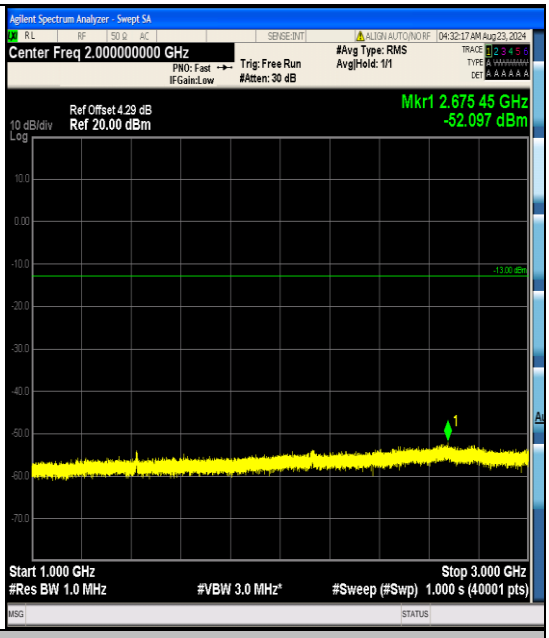

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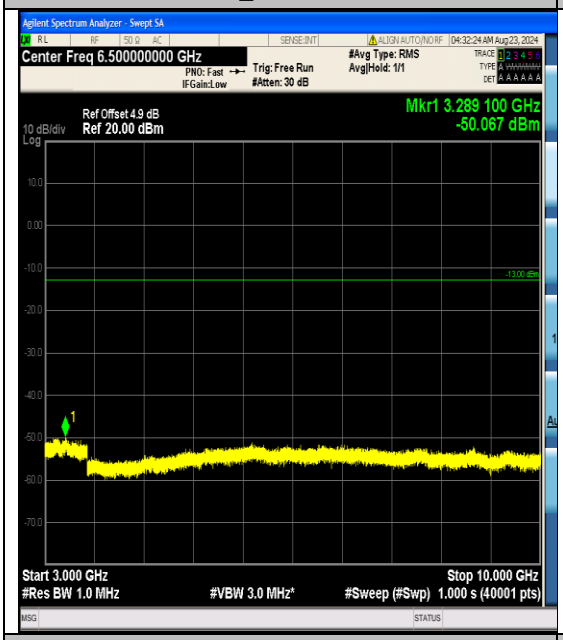

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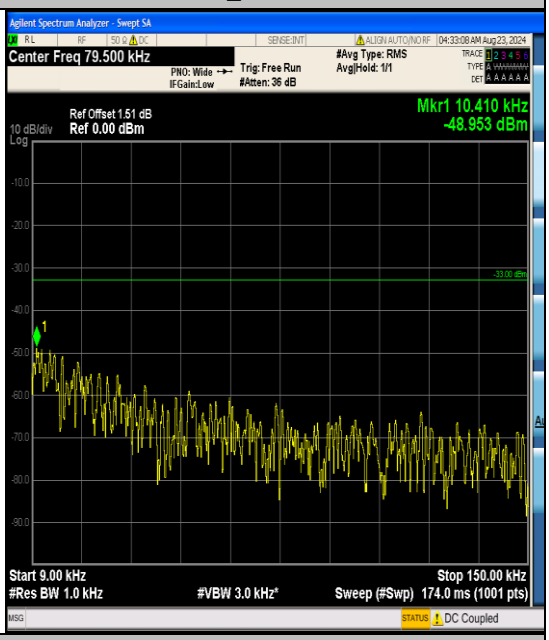
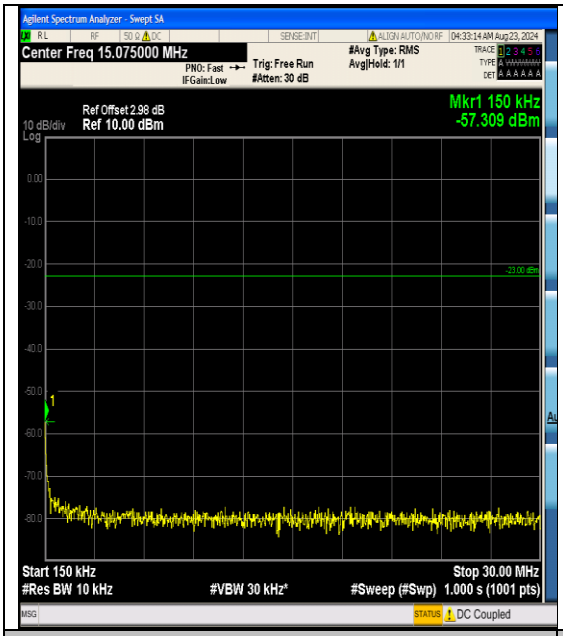
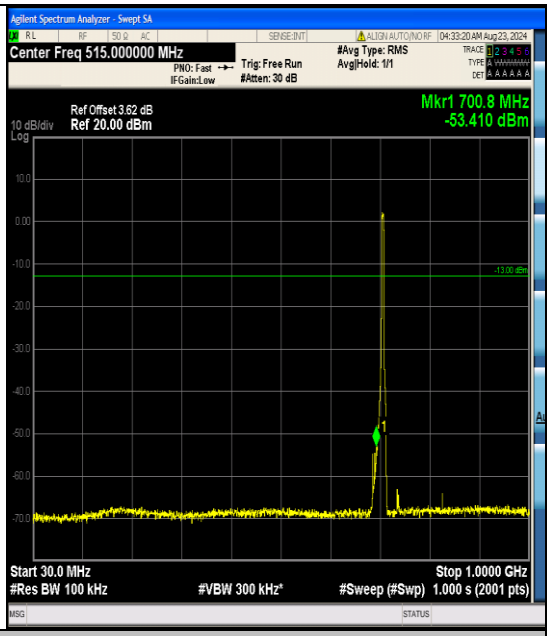


Band17_5MHz_16QAM_23825_25RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_16QAM_23825_25RB#0_0.15~30_0.15~30



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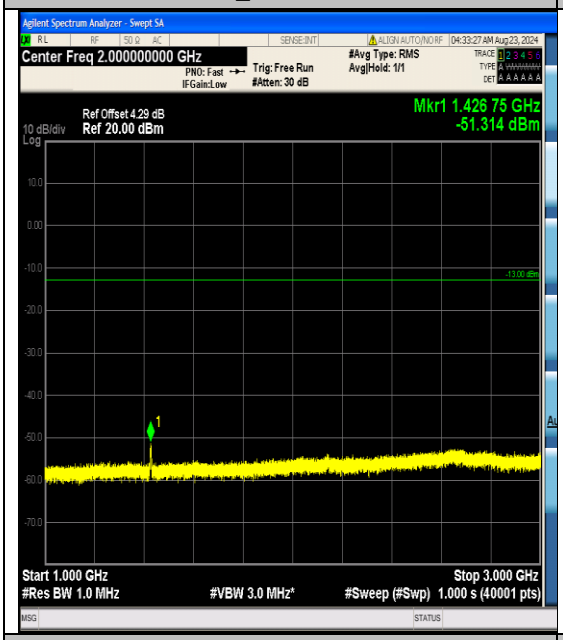

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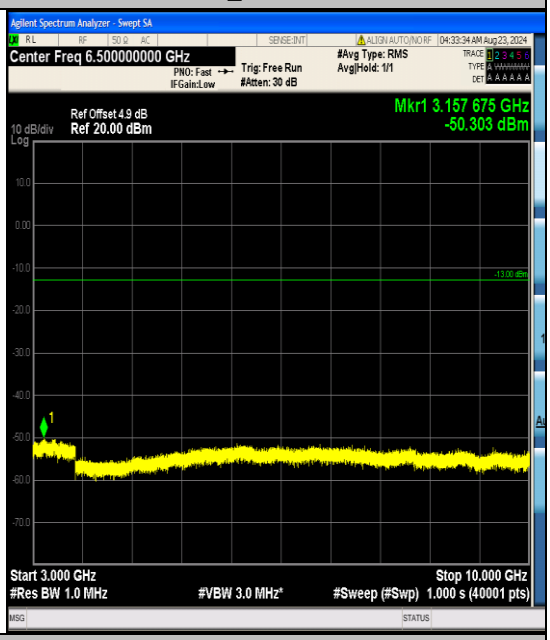

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