Appendix M: Test Data for E-UTRA Band 17

Product Name: Smartphone

Test Model: S24 Pro

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.87	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.60	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.79	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.47	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.61	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.53	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.85	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.87	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.67	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.63	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.46	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.34	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.31	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.51	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.38	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.48	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.62	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.37	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.59	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.37	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.85	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.70	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.86	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.69	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.91	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.23	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.45	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.18	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.51	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.18	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.74	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.75	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.62	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.76	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.72	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.57	PASS

Band17	5MHz	16QAM	23790	25RB#0	20.91	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.50	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.85	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.55	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.02	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.58	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.08	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.71	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.82	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.73	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.86	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.67	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.84	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.68	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.96	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.25	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.12	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.51	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.24	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.49	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.56	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.41	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.60	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.20	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.10	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.03	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.07	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.25	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.21	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.41	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.54	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.39	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.55	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.38	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.59	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.44	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.54	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.58	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.52	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.43	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.44	PASS

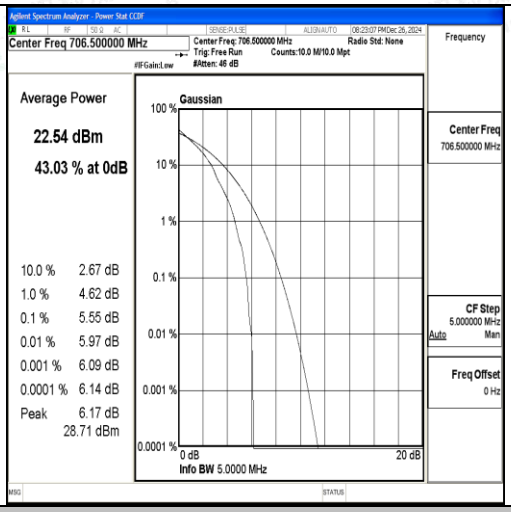
Band17	10MHz	QPSK	23780	25RB#12	21.30	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.45	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.37	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.43	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.42	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.59	PASS

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

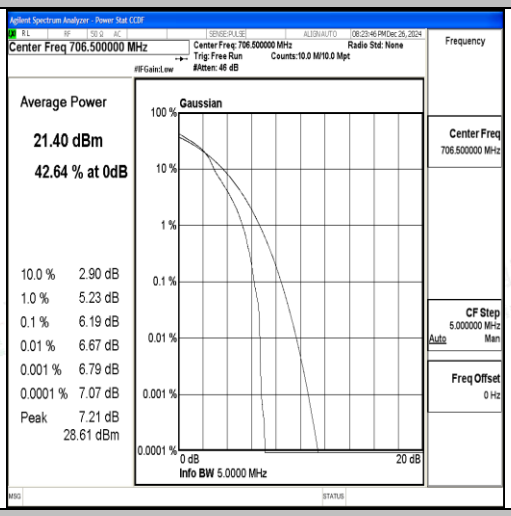
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	5.55	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	6.19	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.58	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.27	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.84	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.56	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.40	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.03	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.56	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	5.37	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	5.56	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	6.23	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	6.22	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.45	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.18	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	5.11	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.91	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.49	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.21	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	5.41	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.56	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.25	13	PASS

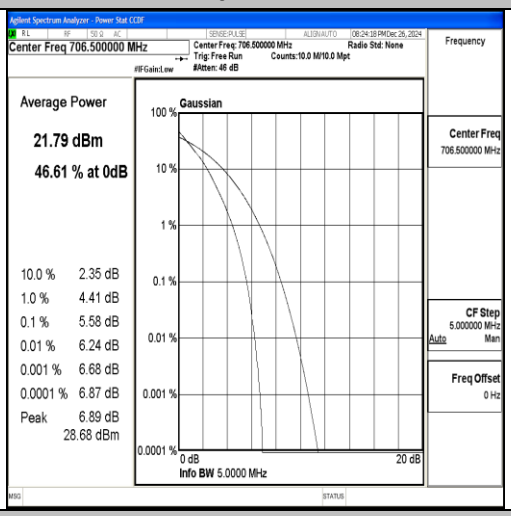
Test Graphs



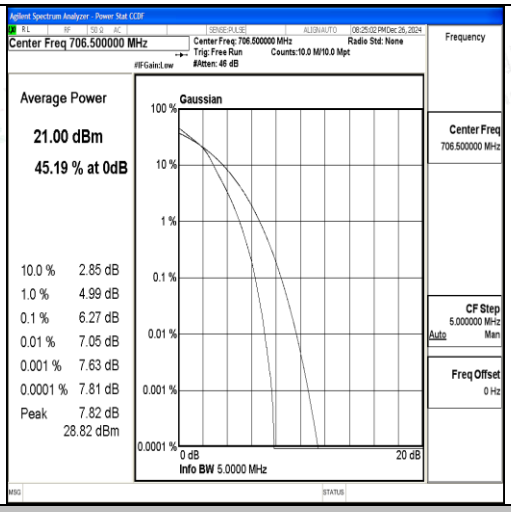
Band17-5MHz-QPSK-23755-1RB#0-PASS



Band17-5MHz-16QAM-23755-1RB#0-PASS



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



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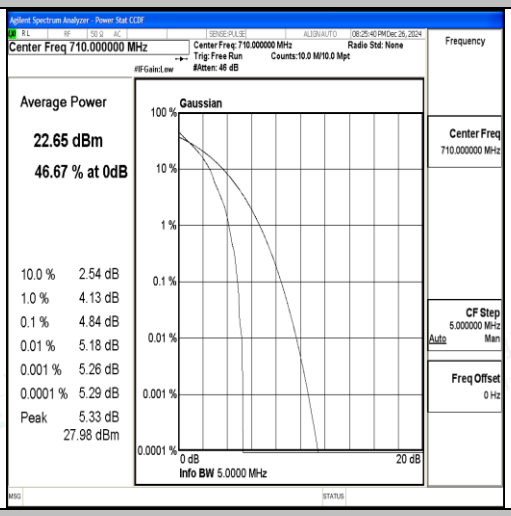
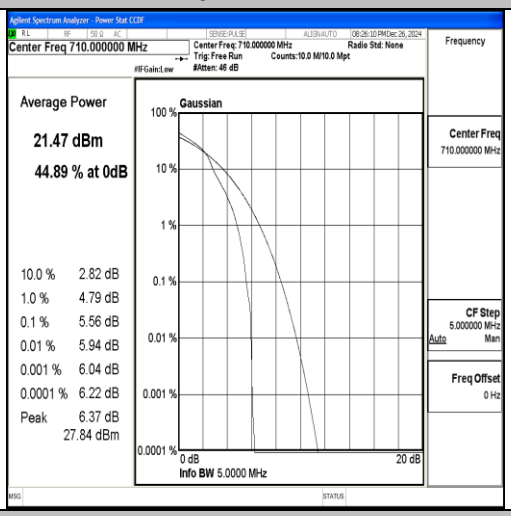
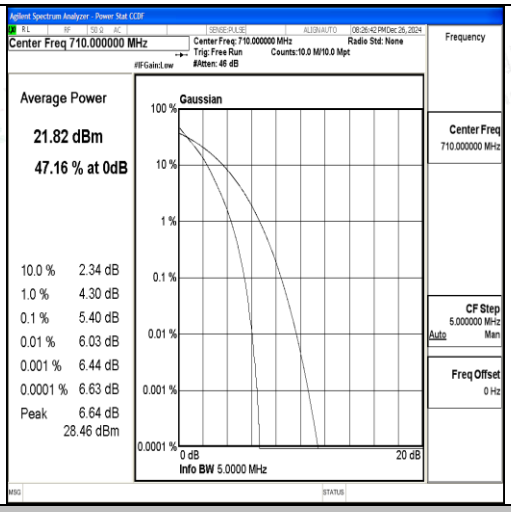


Band17-5MHz-QPSK-23790-1RB#0-PASS



Band17-5MHz-16QAM-23790-1RB#0-PASS



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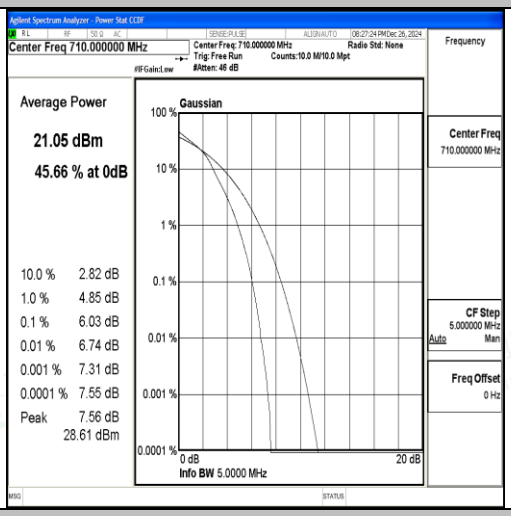
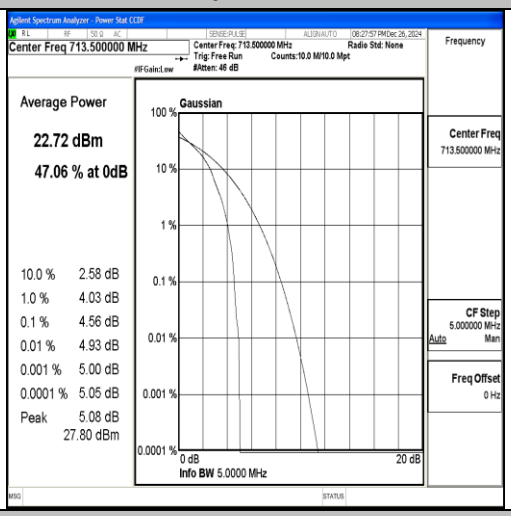
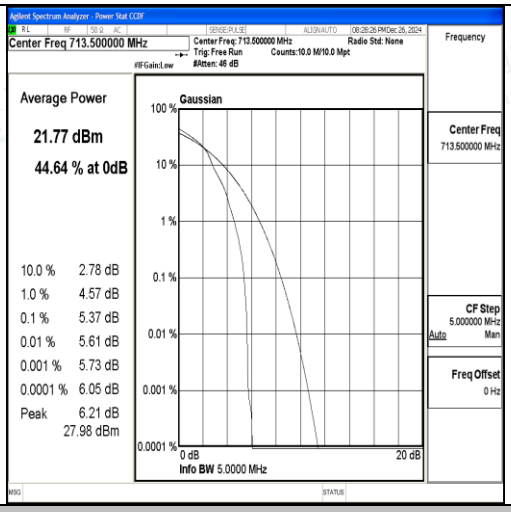


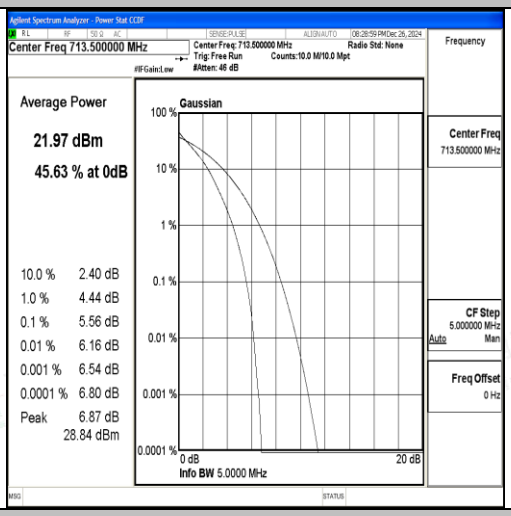
Band17-5MHz-16QAM-23790-25RB#0-PASS



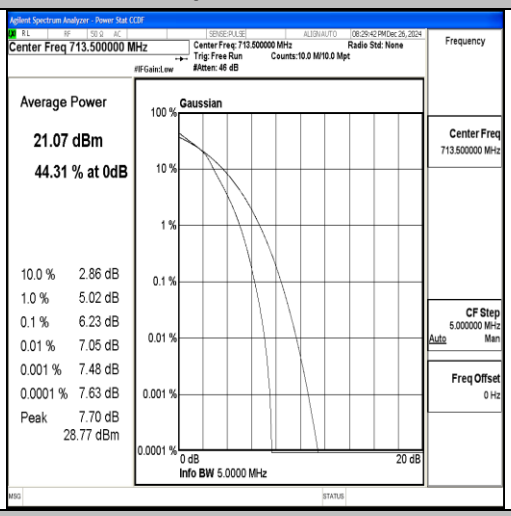
Band17-5MHz-QPSK-23825-1RB#0-PASS



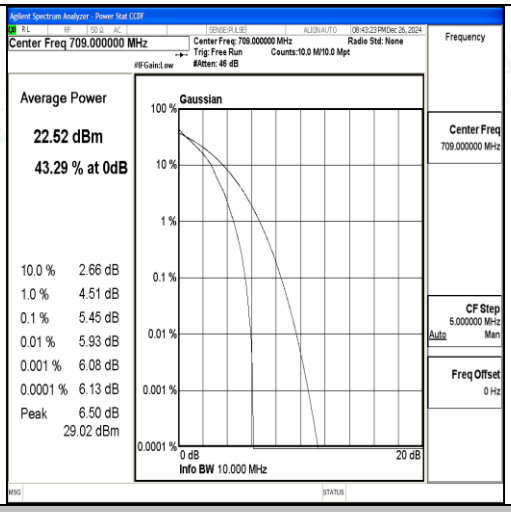
Band17-5MHz-16QAM-23825-1RB#0-PASS



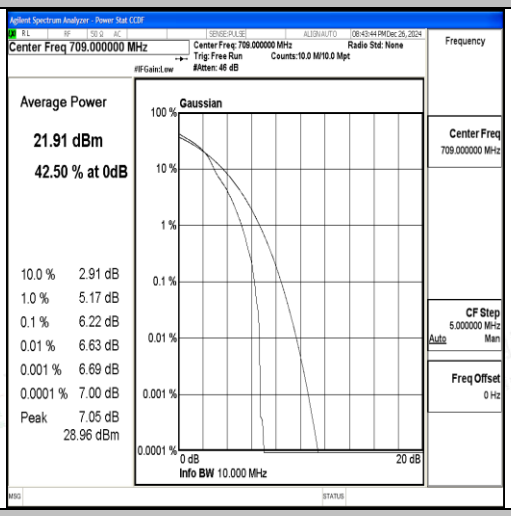
Band17-5MHz-QPSK-23825-25RB#0-PASS



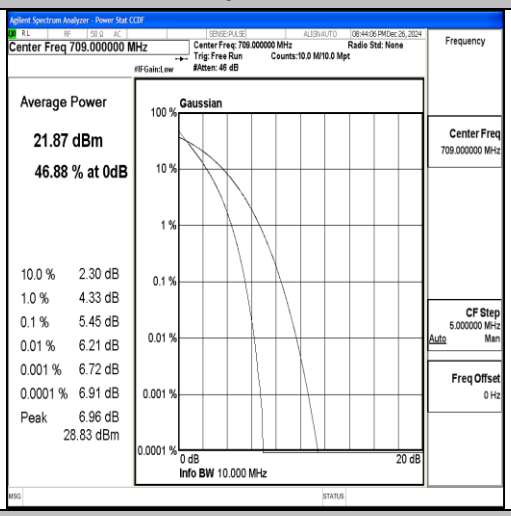
Band17-5MHz-16QAM-23825-25RB#0-PASS



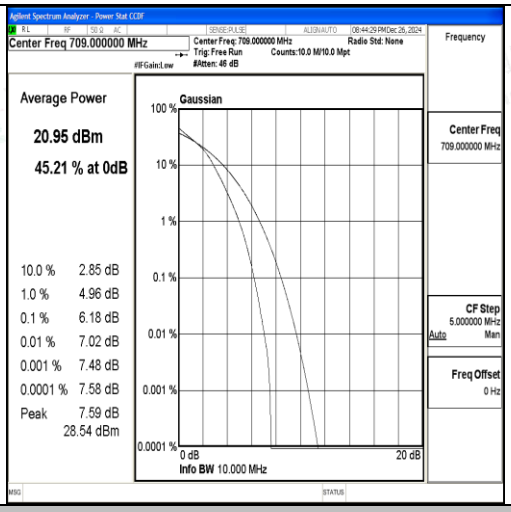
Band17-10MHz-QPSK-23780-1RB#0-PASS



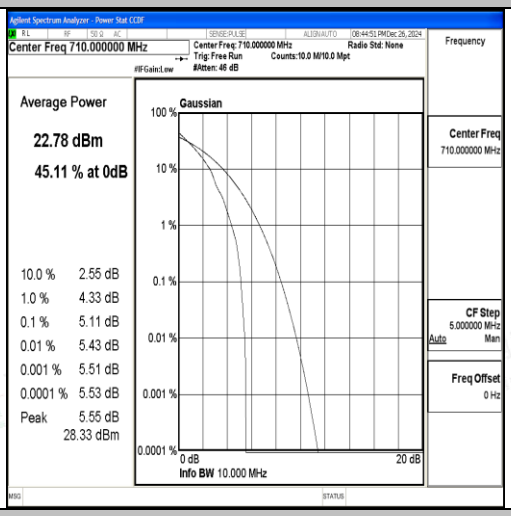
Band17-10MHz-16QAM-23780-1RB#0-PASS



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



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



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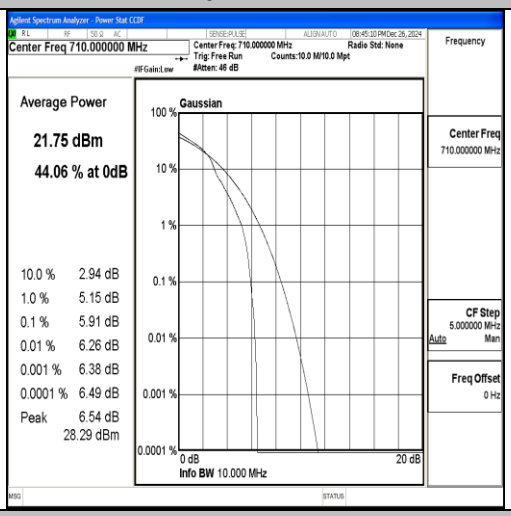
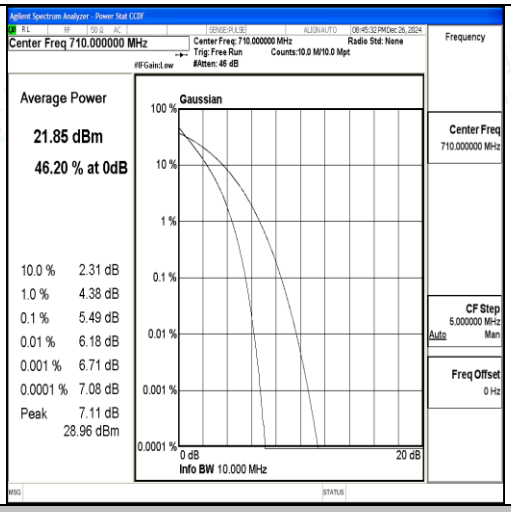
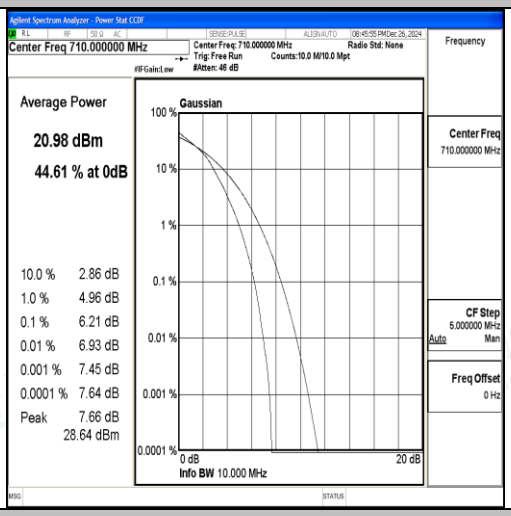


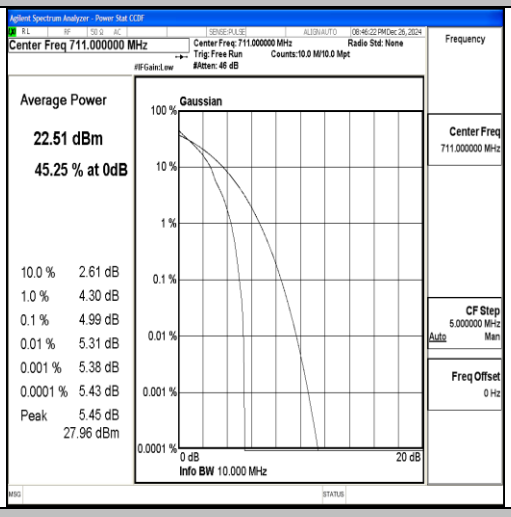
Band17-10MHz-16QAM-23790-1RB#0-PASS



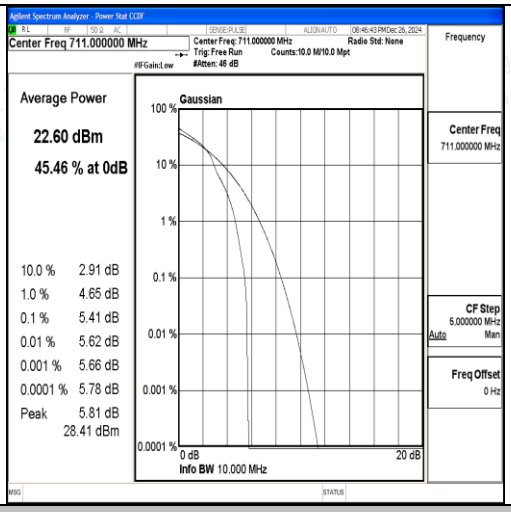
Band17-10MHz-QPSK-23790-50RB#0-PASS



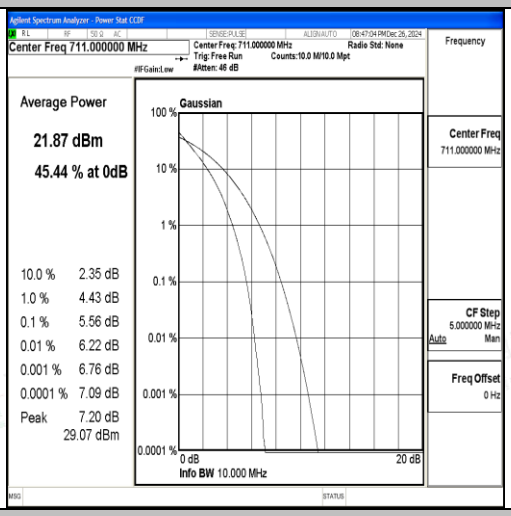
Band17-10MHz-16QAM-23790-50RB#0-PASS



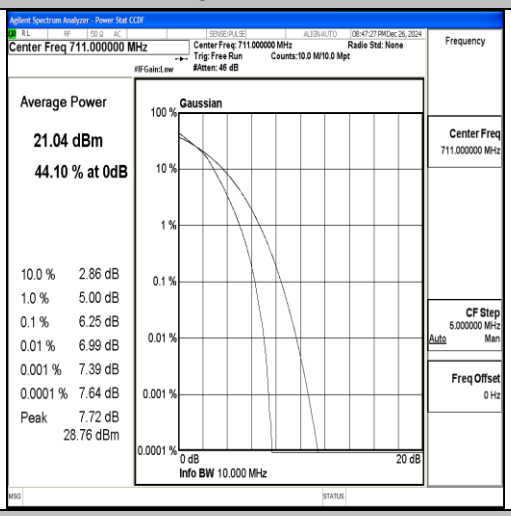
Band17-10MHz-QPSK-23800-1RB#0-PASS



Band17-10MHz-16QAM-23800-1RB#0-PASS



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



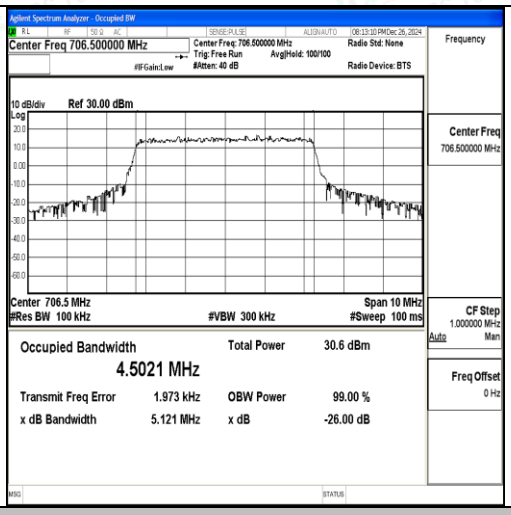
Band17-10MHz-16QAM-23800-50RB#0-PASS

M.3 26dB Bandwidth and Occupied Bandwidth

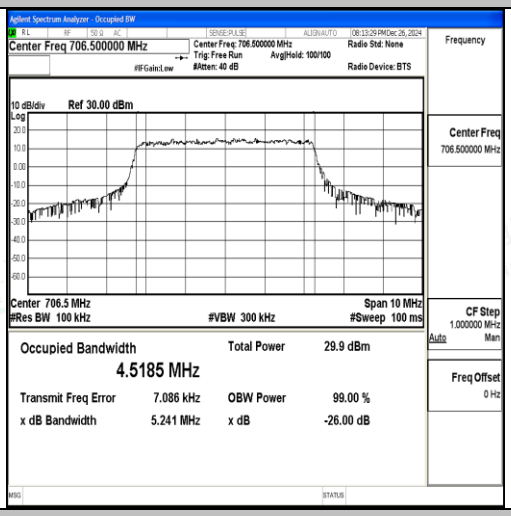
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5021	5.121	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5185	5.241	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5150	5.242	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5045	5.184	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5296	5.455	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5416	5.483	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9593	9.990	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9776	9.893	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9940	10.18	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9908	10.41	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9875	9.964	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9963	10.15	PASS

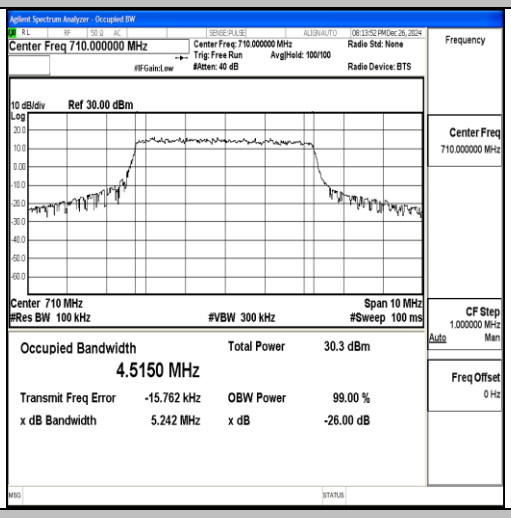
Test Graphs



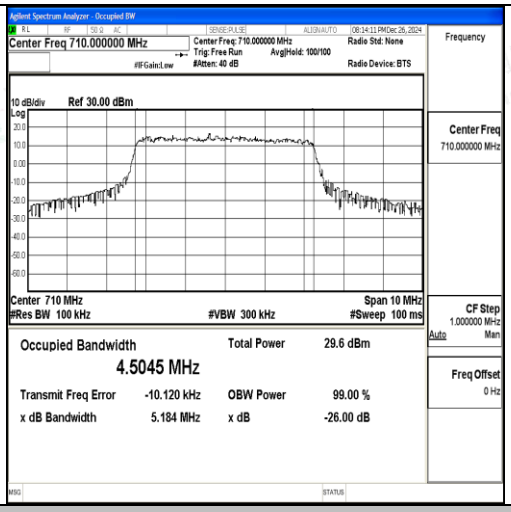
Band17-5MHz-QPSK-23755-25RB#0-PASS



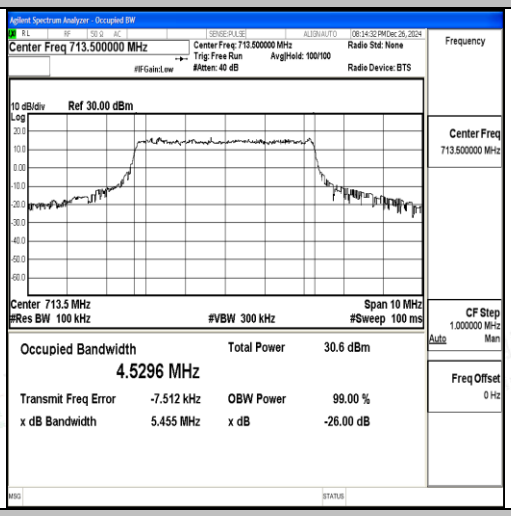
Band17-5MHz-16QAM-23755-25RB#0-PASS



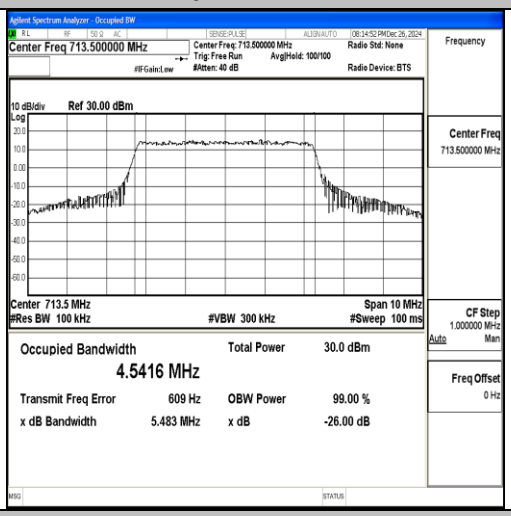
Band17-5MHz-QPSK-23790-25RB#0-PASS



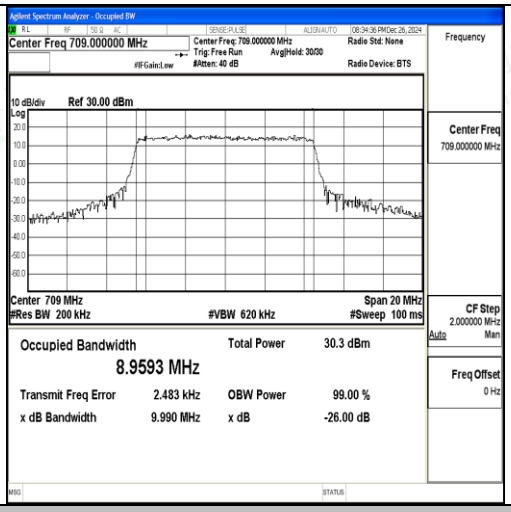
Band17-5MHz-16QAM-23790-25RB#0-PASS



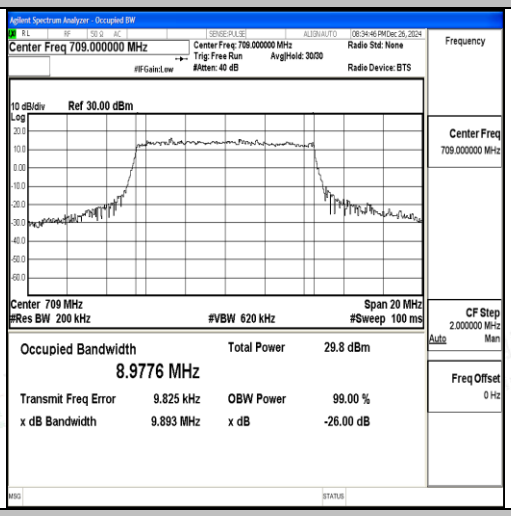
Band17-5MHz-QPSK-23825-25RB#0-PASS



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



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



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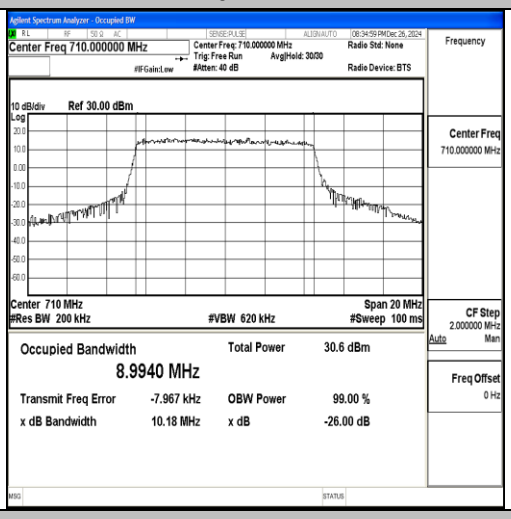
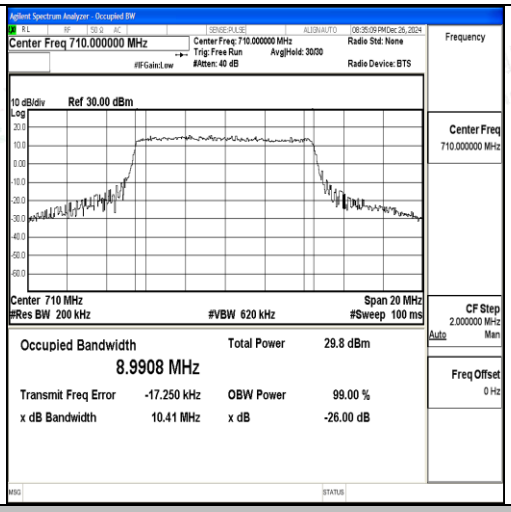
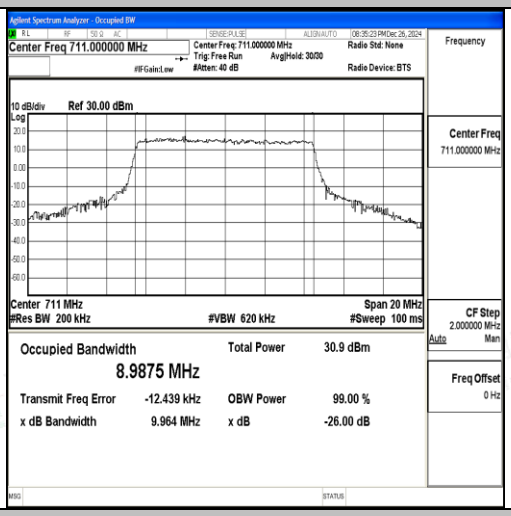


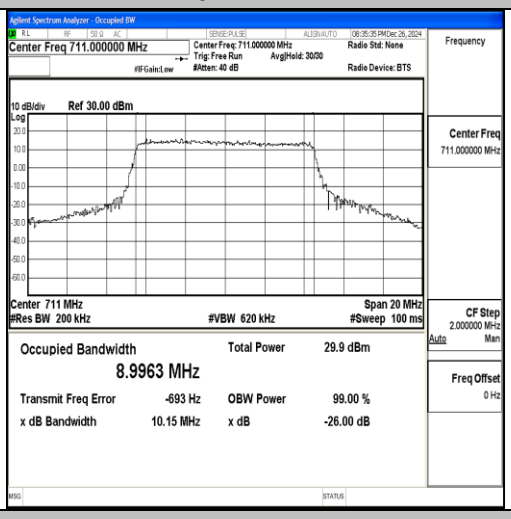
Band17-10MHz-QPSK-23790-50RB#0-PASS



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



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



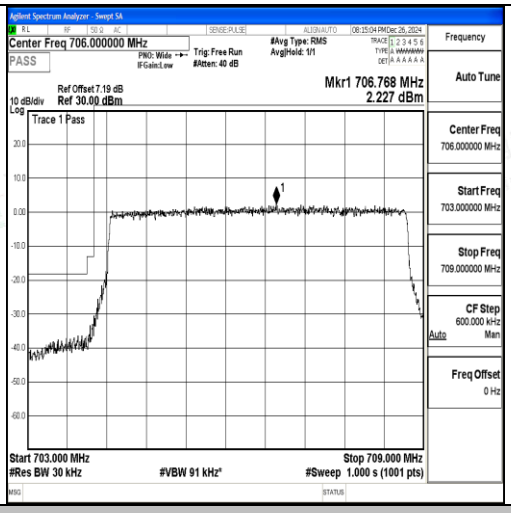
Band17-10MHz-16QAM-23800-50RB#0-PASS

M.4 Band Edge

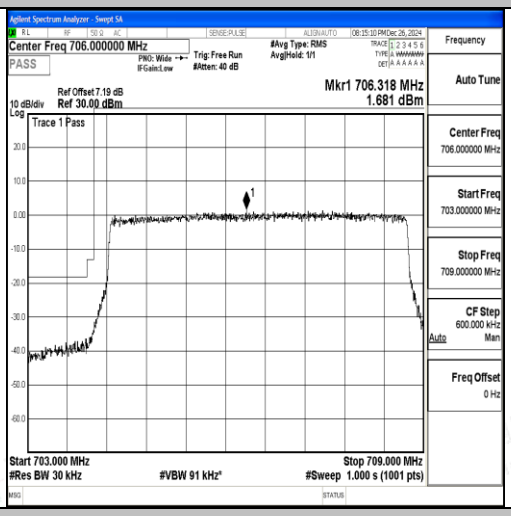
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	703.77	-36.37	PASS
Band17	5MHz	16QAM	23755	25RB#0	703.89	-36.36	PASS
Band17	5MHz	QPSK	23825	25RB#0	716.11	-35.68	PASS
Band17	5MHz	16QAM	23825	25RB#0	716.14	-34.47	PASS
Band17	10MHz	QPSK	23780	50RB#0	703.89	-42.01	PASS
Band17	10MHz	16QAM	23780	50RB#0	703.86	-42.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	716.14	-39.30	PASS
Band17	10MHz	16QAM	23800	50RB#0	716.15	-39.94	PASS

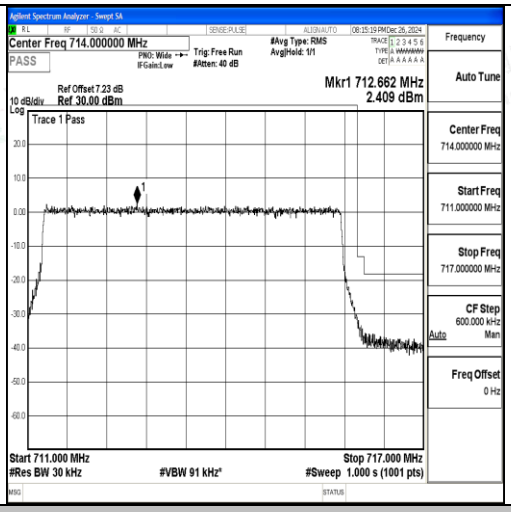
Test Graphs



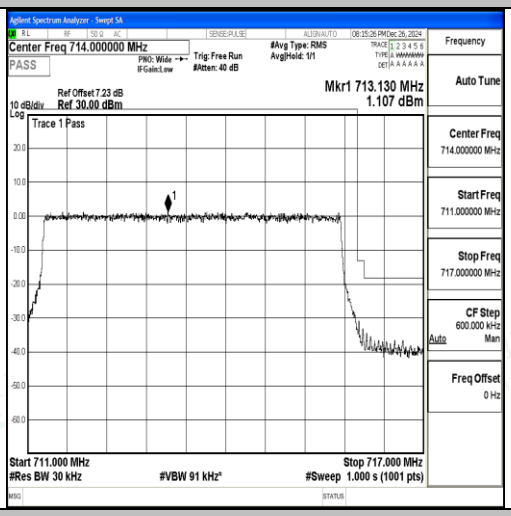
Band17_5MHz_QPSK_23755_25RB#0



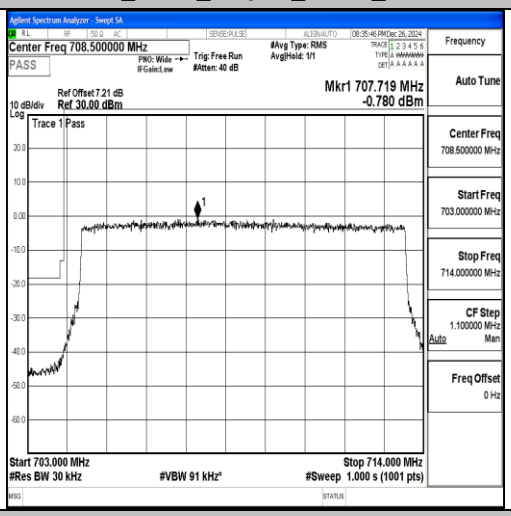
Band17_5MHz_16QAM_23755_25RB#0



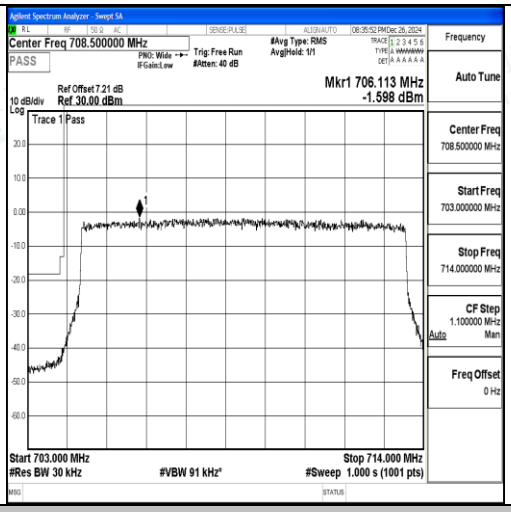
Band17_5MHz_QPSK_23825_25RB#0



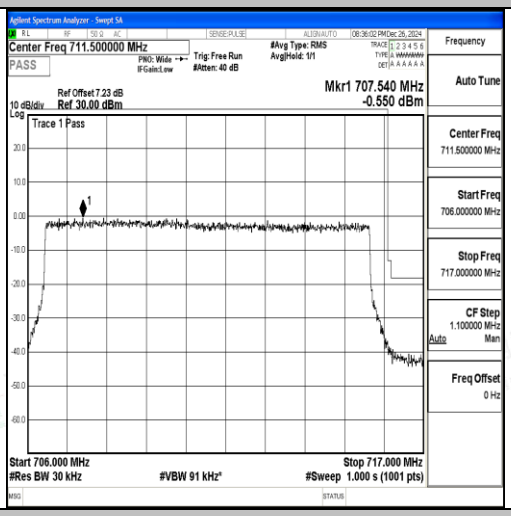
Band17_5MHz_16QAM_23825_25RB#0



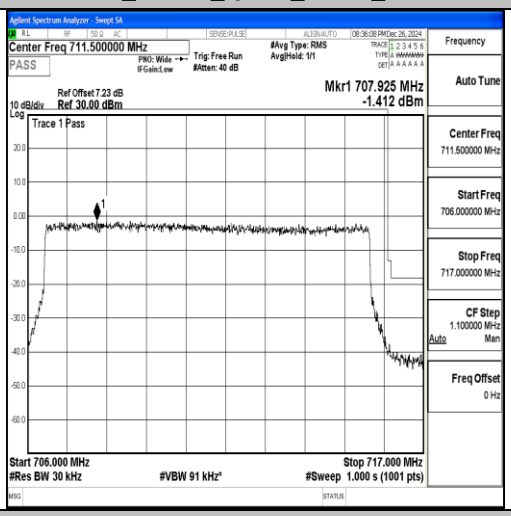
Band17_10MHz_QPSK_23780_50RB#0



Band17_10MHz_16QAM_23780_50RB#0



Band17_10MHz_QPSK_23800_50RB#0



Band17_10MHz_16QAM_23800_50RB#0

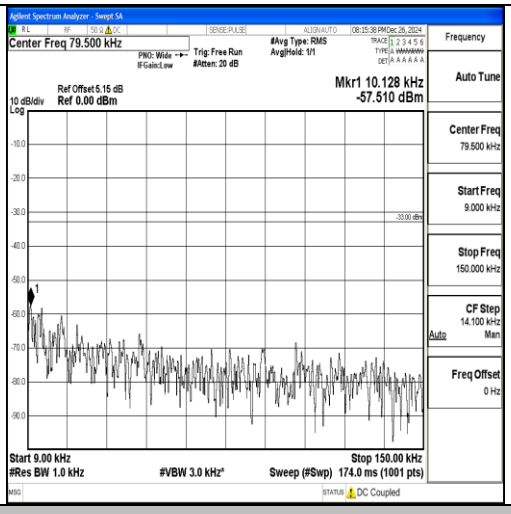
M.5 Conducted Spurious Emission

Test Result

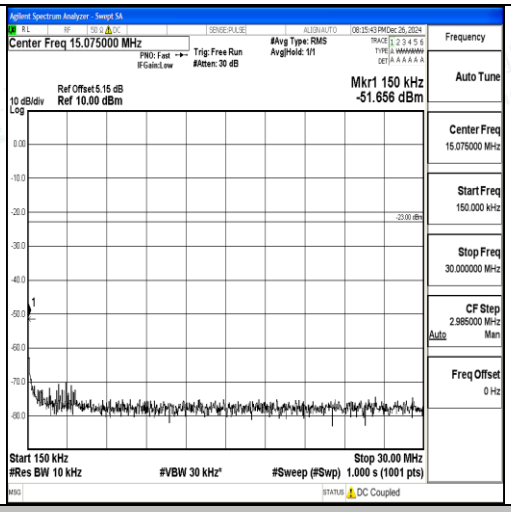
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	0.009~0.15	-57.51	PASS
Band17	5MHz	QPSK	23755	1RB#0	0.15~30	-51.66	PASS
Band17	5MHz	QPSK	23755	1RB#0	30~1000	-61.13	PASS
Band17	5MHz	QPSK	23755	1RB#0	1000~3000	-44.46	PASS
Band17	5MHz	QPSK	23755	1RB#0	3000~10000	-44.19	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.009~0.15	-59.00	PASS
Band17	5MHz	16QAM	23755	1RB#0	0.15~30	-52.07	PASS
Band17	5MHz	16QAM	23755	1RB#0	30~1000	-60.91	PASS
Band17	5MHz	16QAM	23755	1RB#0	1000~3000	-45.16	PASS
Band17	5MHz	16QAM	23755	1RB#0	3000~10000	-44.31	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.009~0.15	-54.90	PASS
Band17	5MHz	QPSK	23790	1RB#0	0.15~30	-49.72	PASS
Band17	5MHz	QPSK	23790	1RB#0	30~1000	-61.86	PASS
Band17	5MHz	QPSK	23790	1RB#0	1000~3000	-45.90	PASS
Band17	5MHz	QPSK	23790	1RB#0	3000~10000	-44.20	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.009~0.15	-57.59	PASS
Band17	5MHz	16QAM	23790	1RB#0	0.15~30	-51.11	PASS
Band17	5MHz	16QAM	23790	1RB#0	30~1000	-61.84	PASS
Band17	5MHz	16QAM	23790	1RB#0	1000~3000	-46.61	PASS
Band17	5MHz	16QAM	23790	1RB#0	3000~10000	-44.25	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.009~0.15	-57.44	PASS
Band17	5MHz	QPSK	23825	1RB#0	0.15~30	-53.49	PASS
Band17	5MHz	QPSK	23825	1RB#0	30~1000	-61.08	PASS
Band17	5MHz	QPSK	23825	1RB#0	1000~3000	-46.14	PASS
Band17	5MHz	QPSK	23825	1RB#0	3000~10000	-44.22	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.009~0.15	-55.28	PASS
Band17	5MHz	16QAM	23825	1RB#0	0.15~30	-52.24	PASS
Band17	5MHz	16QAM	23825	1RB#0	30~1000	-61.96	PASS
Band17	5MHz	16QAM	23825	1RB#0	1000~3000	-45.46	PASS
Band17	5MHz	16QAM	23825	1RB#0	3000~10000	-44.35	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.009~0.15	-57.70	PASS
Band17	10MHz	QPSK	23780	1RB#0	0.15~30	-53.57	PASS
Band17	10MHz	QPSK	23780	1RB#0	30~1000	-61.74	PASS
Band17	10MHz	QPSK	23780	1RB#0	1000~3000	-45.83	PASS
Band17	10MHz	QPSK	23780	1RB#0	3000~10000	-44.03	PASS
Band17	10MHz	16QAM	23780	1RB#0	0.009~0.15	-56.90	PASS

Band17	10MHz	16QAM	23780	1RB#0	0.15~30	-51.91	PASS
Band17	10MHz	16QAM	23780	1RB#0	30~1000	-62.19	PASS
Band17	10MHz	16QAM	23780	1RB#0	1000~3000	-44.46	PASS
Band17	10MHz	16QAM	23780	1RB#0	3000~10000	-43.97	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.009~0.15	-58.31	PASS
Band17	10MHz	QPSK	23790	1RB#0	0.15~30	-51.29	PASS
Band17	10MHz	QPSK	23790	1RB#0	30~1000	-62.07	PASS
Band17	10MHz	QPSK	23790	1RB#0	1000~3000	-45.09	PASS
Band17	10MHz	QPSK	23790	1RB#0	3000~10000	-43.91	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.009~0.15	-54.76	PASS
Band17	10MHz	16QAM	23790	1RB#0	0.15~30	-52.44	PASS
Band17	10MHz	16QAM	23790	1RB#0	30~1000	-61.98	PASS
Band17	10MHz	16QAM	23790	1RB#0	1000~3000	-45.97	PASS
Band17	10MHz	16QAM	23790	1RB#0	3000~10000	-44.16	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.009~0.15	-56.58	PASS
Band17	10MHz	QPSK	23800	1RB#0	0.15~30	-50.46	PASS
Band17	10MHz	QPSK	23800	1RB#0	30~1000	-62.12	PASS
Band17	10MHz	QPSK	23800	1RB#0	1000~3000	-45.44	PASS
Band17	10MHz	QPSK	23800	1RB#0	3000~10000	-44.40	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.009~0.15	-60.55	PASS
Band17	10MHz	16QAM	23800	1RB#0	0.15~30	-52.84	PASS
Band17	10MHz	16QAM	23800	1RB#0	30~1000	-62.26	PASS
Band17	10MHz	16QAM	23800	1RB#0	1000~3000	-39.93	PASS
Band17	10MHz	16QAM	23800	1RB#0	3000~10000	-43.86	PASS

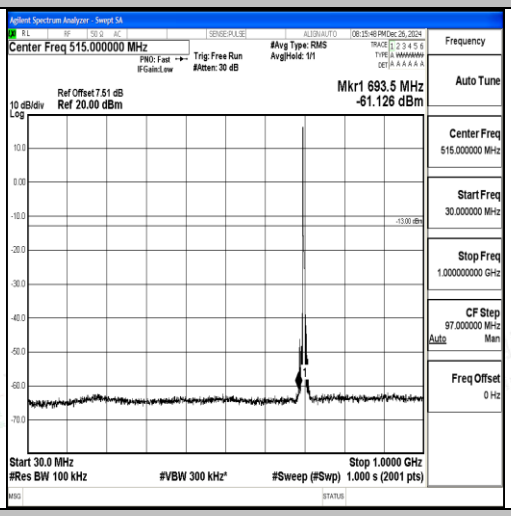
Test Graphs



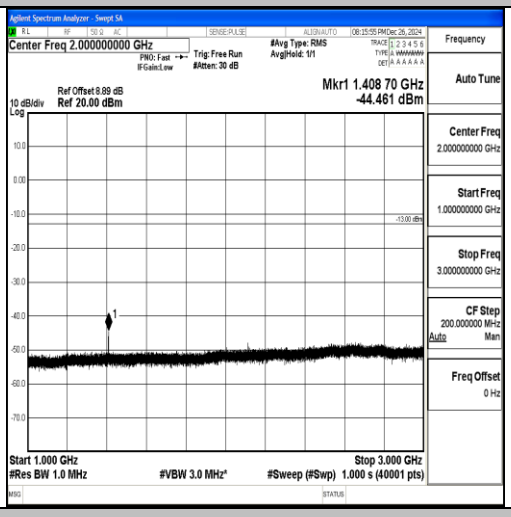
Band17_5MHz_QPSK_23755_1RB#0_0.009~0.15_0.009~0.15



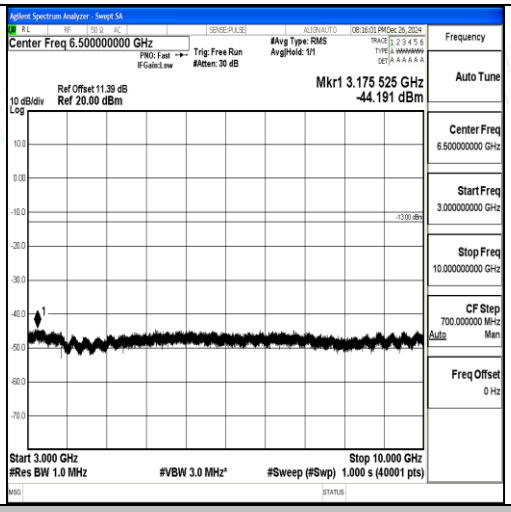
Band17_5MHz_QPSK_23755_1RB#0_0.15~30_0.15~30



Band17_5MHz_QPSK_23755_1RB#0_30~1000_30~1000



Band17_5MHz_QPSK_23755_1RB#0_1000~3000_1000~3000



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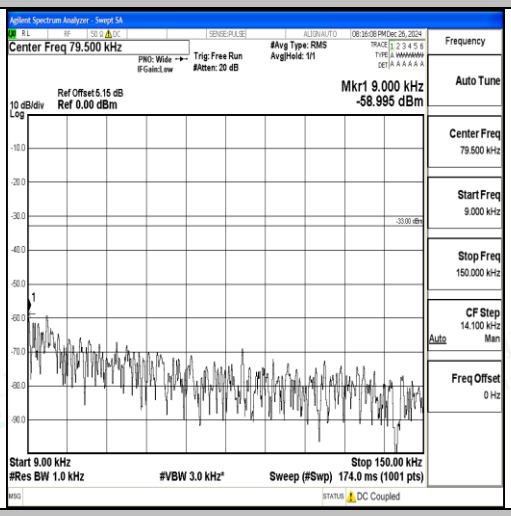
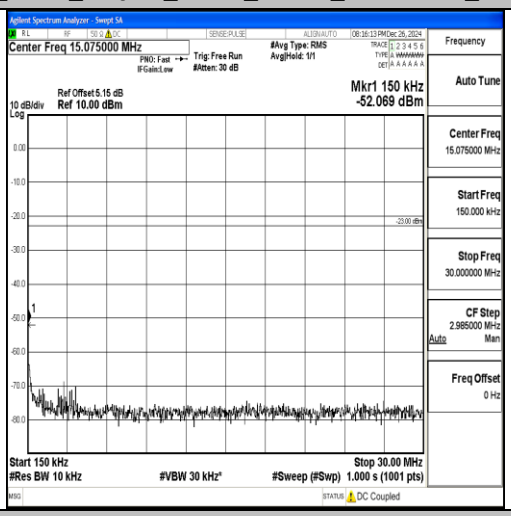
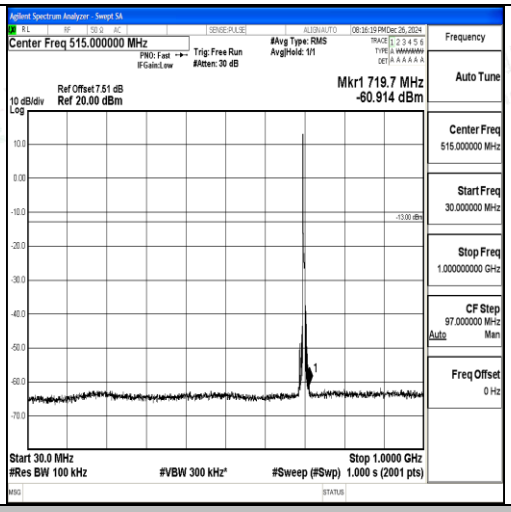


Band17_5MHz_16QAM_23755_1RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_16QAM_23755_1RB#0_0.15~30_0.15~30



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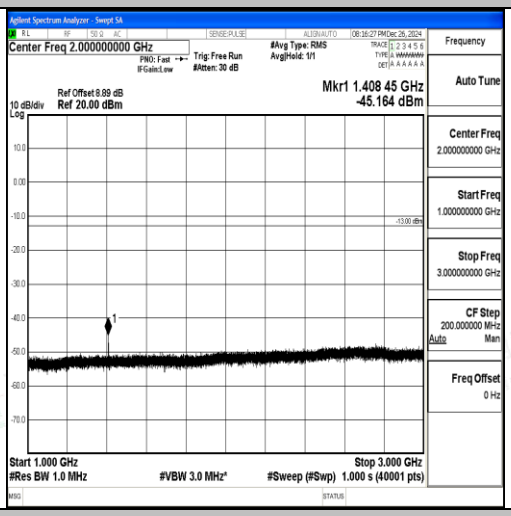

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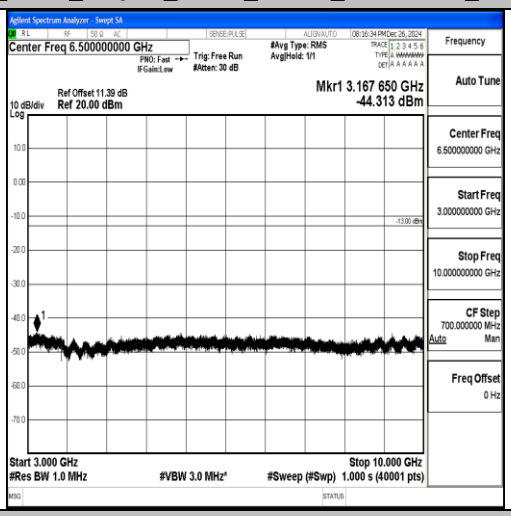

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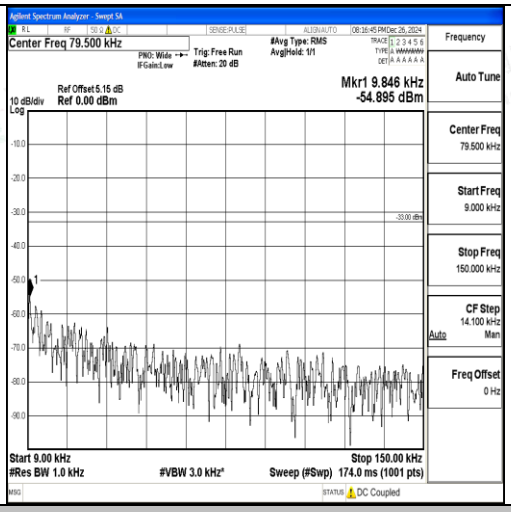
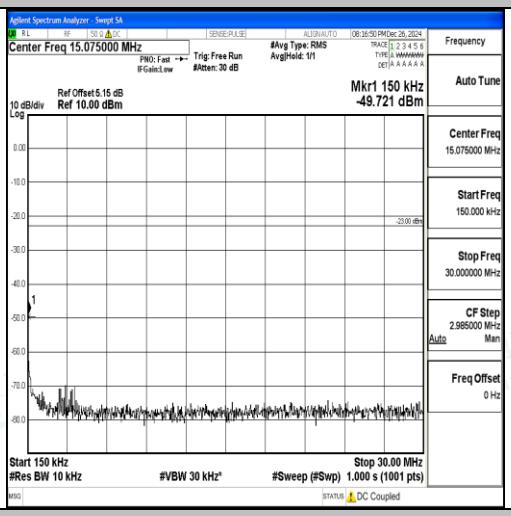
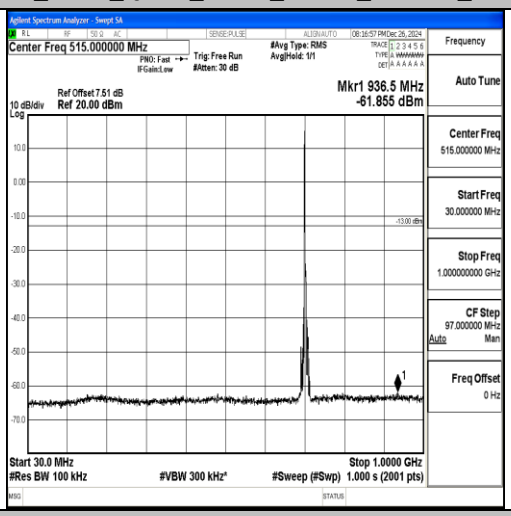


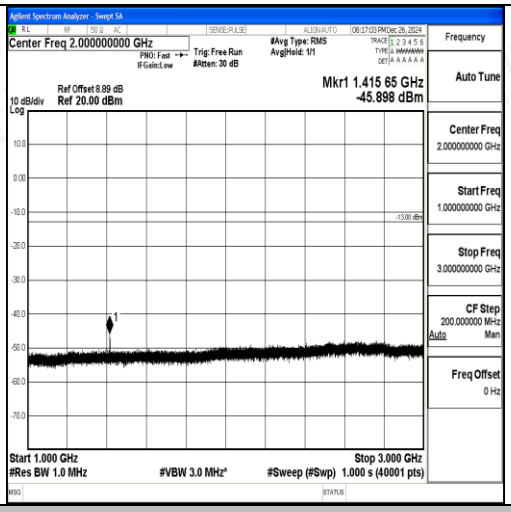
Band17_5MHz_QPSK_23790_1RB#0_0.009~0.15_0.009~0.15



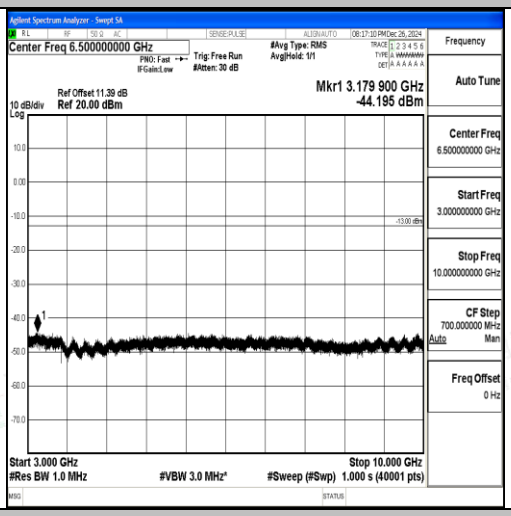
Band17_5MHz_QPSK_23790_1RB#0_0.15~30_0.15~30



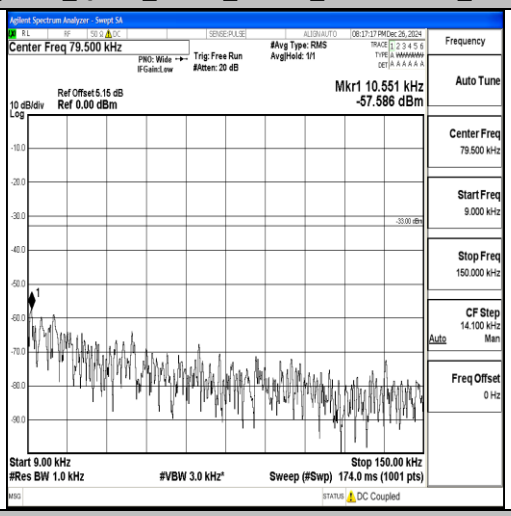
Band17_5MHz_QPSK_23790_1RB#0_30~1000_30~1000



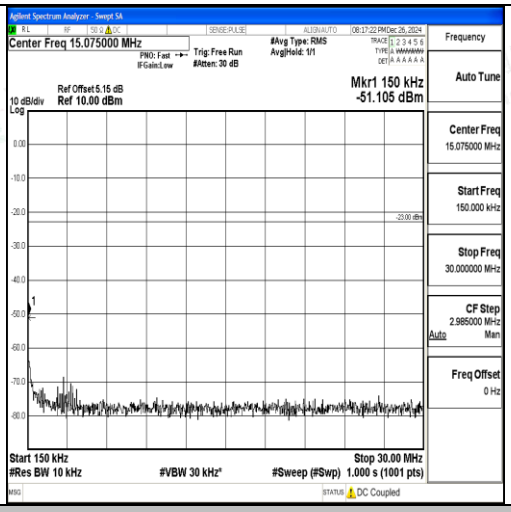
Band17_5MHz_QPSK_23790_1RB#0_1000~3000_1000~3000



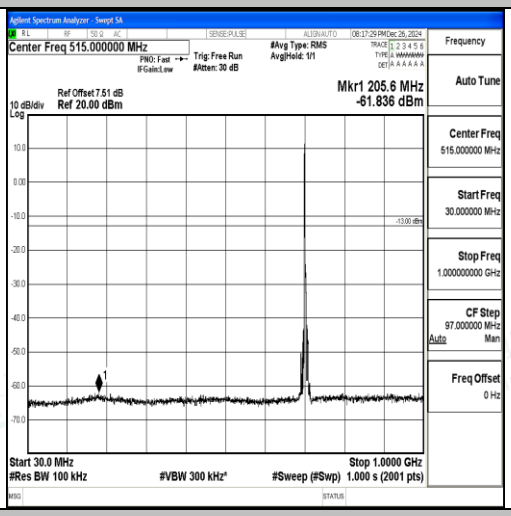
Band17_5MHz_QPSK_23790_1RB#0_3000~10000_3000~10000



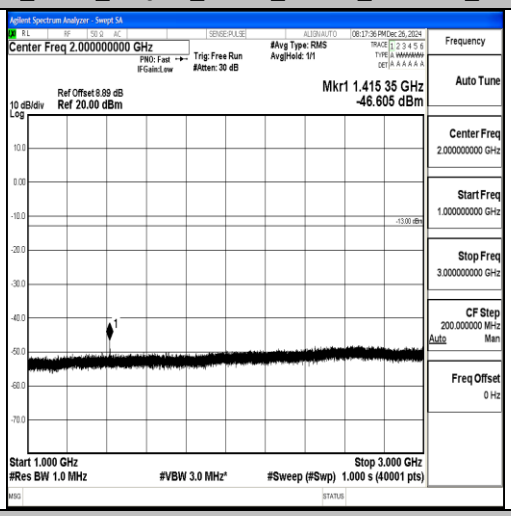
Band17_5MHz_16QAM_23790_1RB#0_0.009~0.15_0.009~0.15



Band17_5MHz_16QAM_23790_1RB#0_0.15~30_0.15~30



Band17_5MHz_16QAM_23790_1RB#0_30~1000_30~1000



Band17_5MHz_16QAM_23790_1RB#0_1000~3000_1000~3000