Appendix F: Test Data for E-UTRA Band 5

Product Name: Kids Smartwatch

Test Model: Kidzi

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu

F.1 Conducted Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.03	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.07	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.15	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.23	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.01	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.05	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.12	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.97	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.13	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.00	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.11	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.96	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.17	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.15	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.88	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.97	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.96	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.08	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.83	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.99	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.89	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.97	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.85	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.96	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.89	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.96	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.84	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.78	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.69	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.84	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.94	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.80	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.69	PASS

Band5	1.4MHz	QPSK	20643	3RB#0	22.85	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.73	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.88	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.71	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.88	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.69	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.90	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.86	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.99	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.19	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.01	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.11	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.07	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.13	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.09	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.09	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.11	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.09	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.10	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.02	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.04	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.01	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.87	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.08	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.87	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.00	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.82	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.93	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.86	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.89	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.89	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.92	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.90	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.86	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.88	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.82	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.88	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.73	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.79	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.75	PASS

Band5	3MHz	QPSK	20635	1RB#14	22.83	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.76	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.93	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.84	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.95	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.90	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.88	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.88	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.84	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.75	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.00	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.96	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.15	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.05	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.02	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.87	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.05	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.03	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.05	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.03	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.04	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.97	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.05	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.03	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.85	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.03	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.93	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.11	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.82	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.02	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.90	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.92	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.89	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.93	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.85	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.90	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.91	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.89	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.85	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.77	PASS

Band5	5MHz	QPSK	20625	1RB#12	22.94	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.92	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.84	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.82	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.83	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.77	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.83	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.79	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.84	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.82	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.82	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.91	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.02	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.23	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.02	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.14	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.90	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.01	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.10	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.04	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.07	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.03	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.99	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.94	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.04	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.03	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.95	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.03	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.97	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.17	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.84	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.91	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.96	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.97	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.98	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.96	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.93	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.96	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.95	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.94	PASS

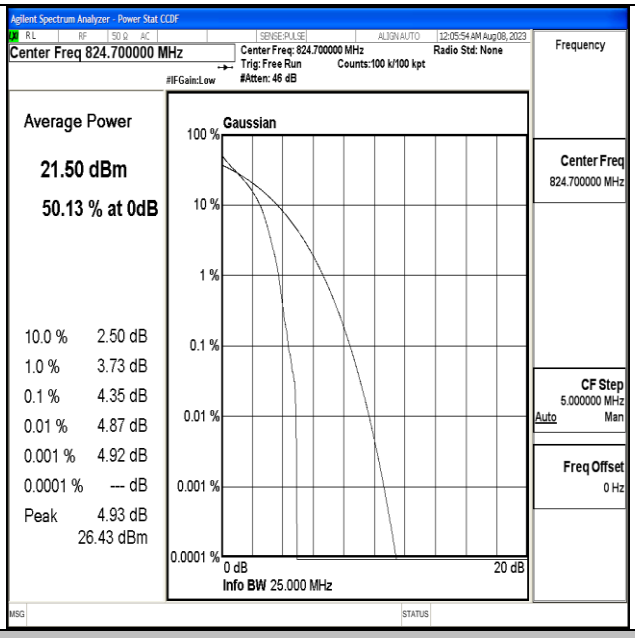
Band5	10MHz	QPSK	20600	1RB#0	22.82	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.74	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.91	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.86	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.83	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.74	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.92	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.92	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.92	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.93	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.83	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.88	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.84	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.84	PASS

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

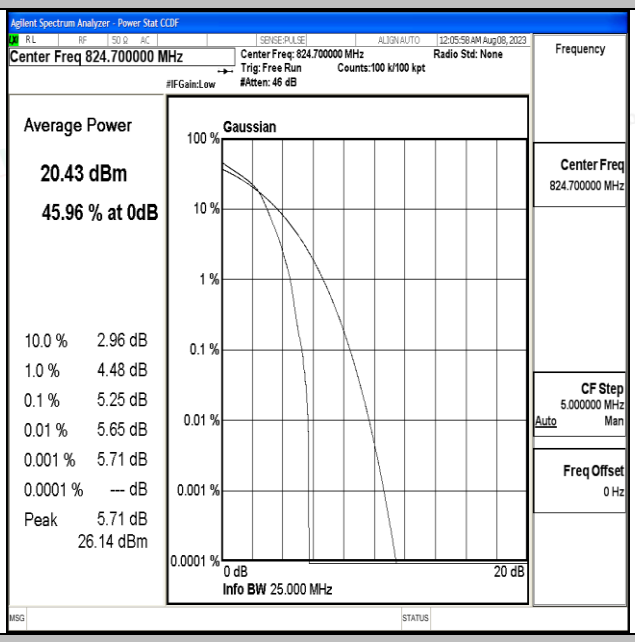
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	4.35	13	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	5.25	13	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	4.72	13	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	5.61	13	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	4.41	13	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	5.33	13	PASS
Band5	3MHz	QPSK	20525	15RB#0	4.84	13	PASS
Band5	3MHz	16QAM	20525	15RB#0	5.68	13	PASS
Band5	3MHz	QPSK	20635	15RB#0	4.45	13	PASS
Band5	3MHz	16QAM	20635	15RB#0	5.34	13	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.00	13	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.81	13	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.82	13	PASS
Band5	5MHz	16QAM	20525	25RB#0	5.70	13	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.39	13	PASS
Band5	5MHz	16QAM	20625	25RB#0	5.15	13	PASS
Band5	3MHz	QPSK	20415	15RB#0	5.98	13	PASS
Band5	3MHz	16QAM	20415	15RB#0	6.72	13	PASS
Band5	10MHz	QPSK	20450	50RB#0	4.09	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	4.86	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.55	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.45	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.69	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.36	13	PASS

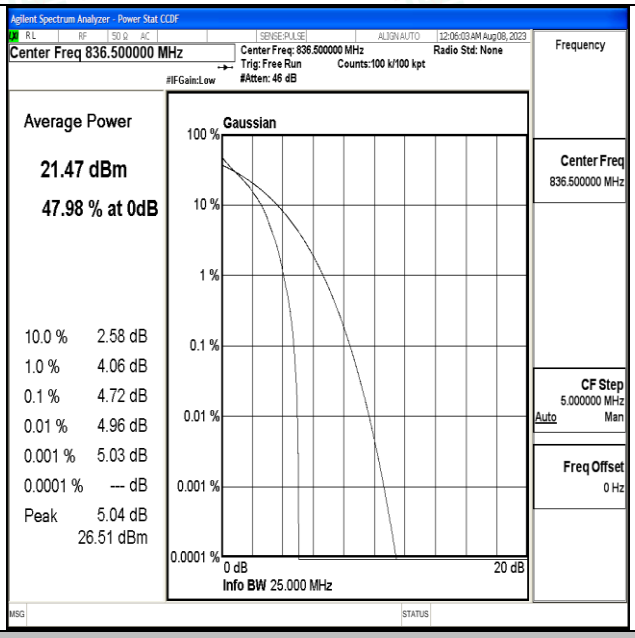
Test Graphs



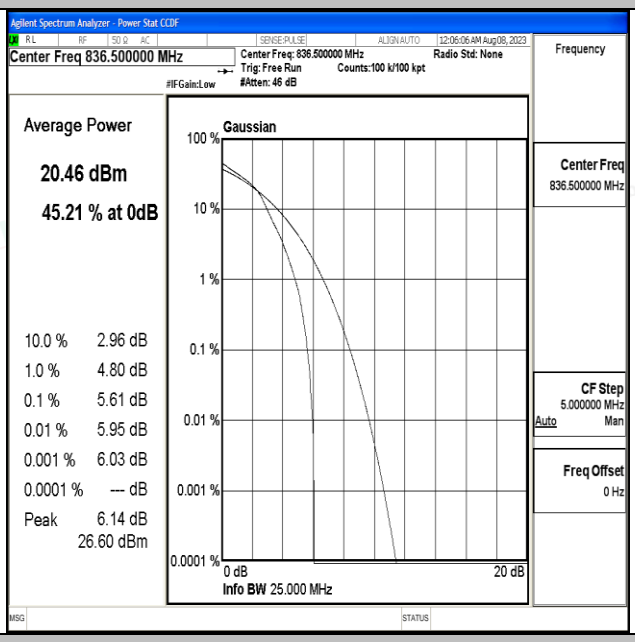
1.4MHz-20407



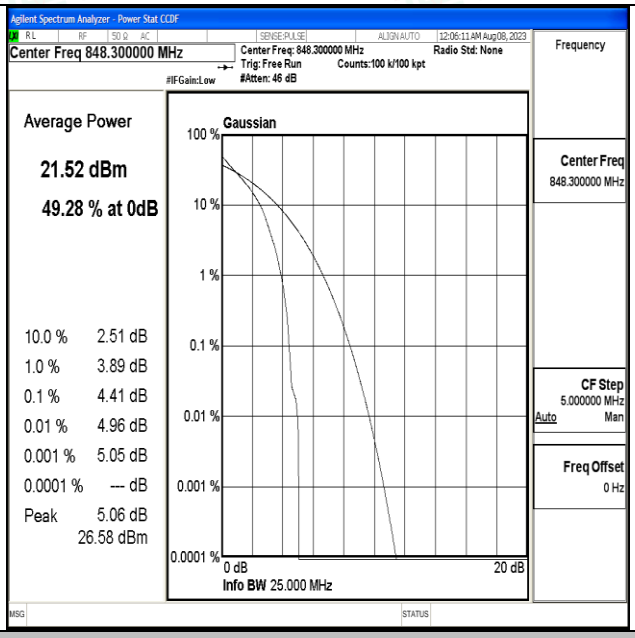
1.4MHz-20407



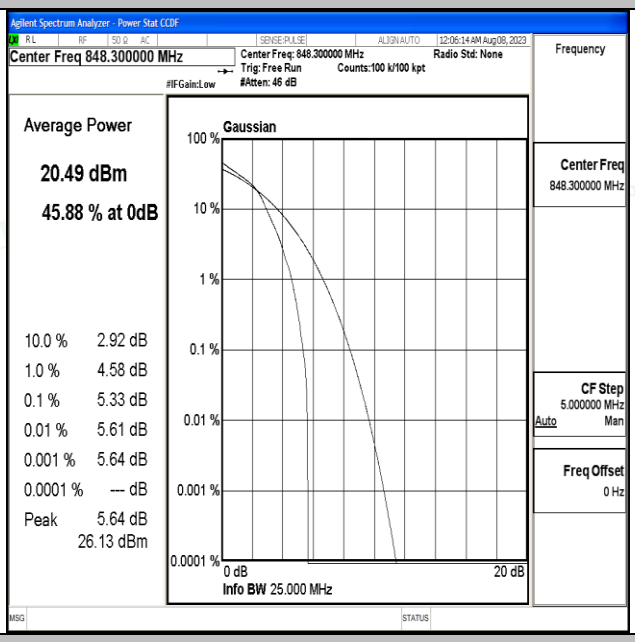
1.4MHz-20525



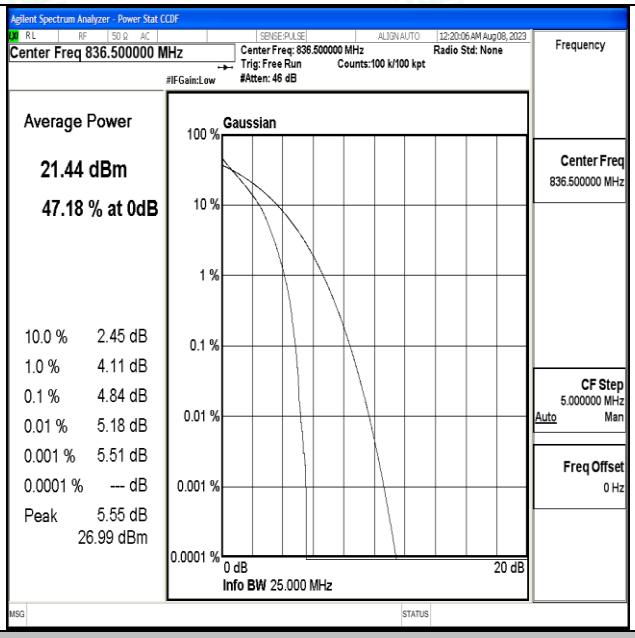
1.4MHz-20525



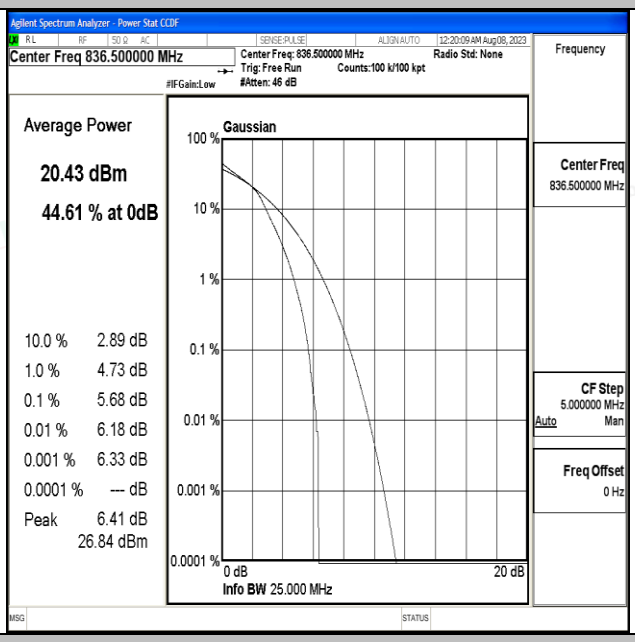
1.4MHz-20643



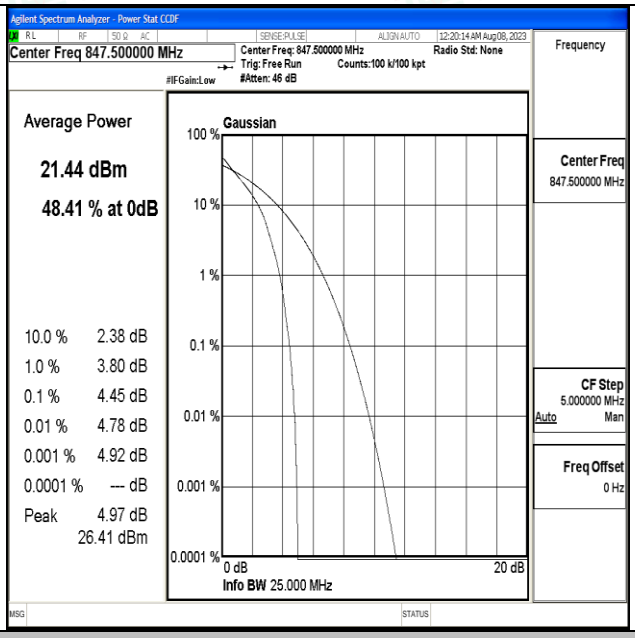
1.4MHz-20643



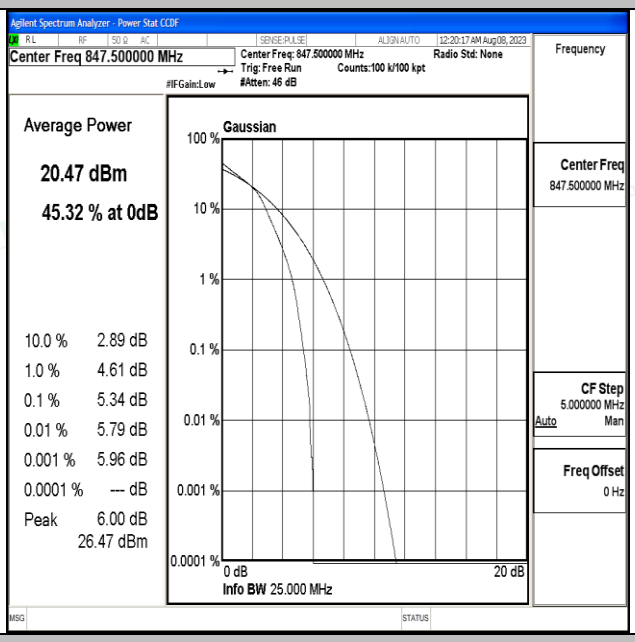
3MHz-20525



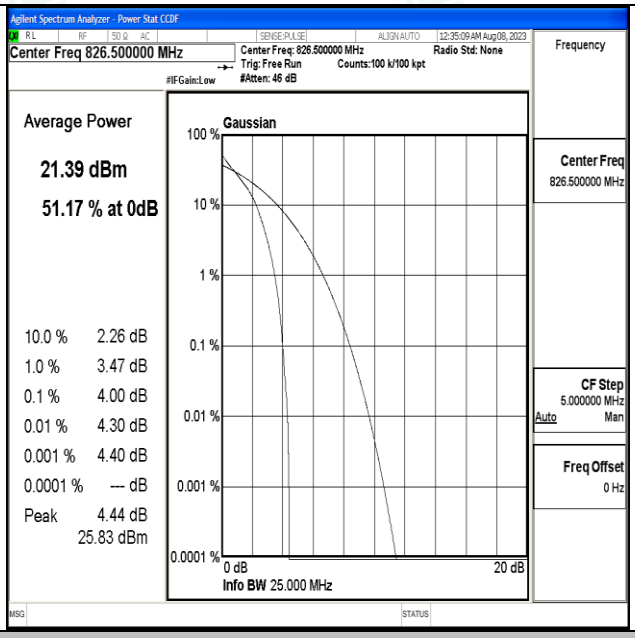
3MHz-20525



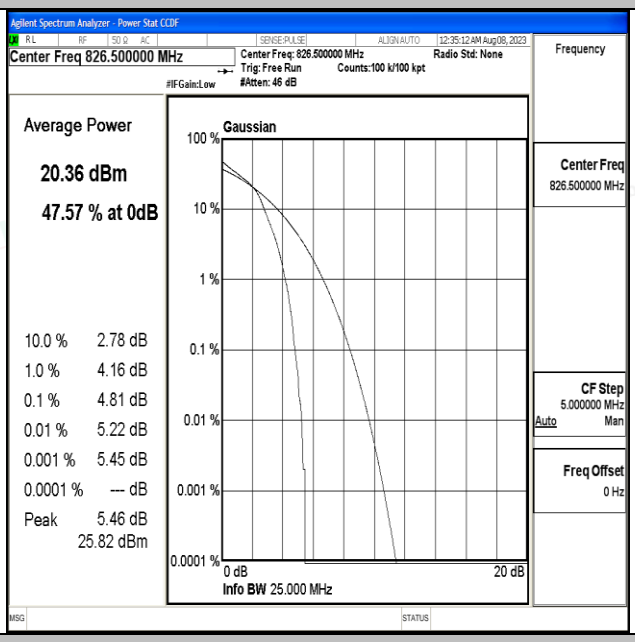
3MHz-20635



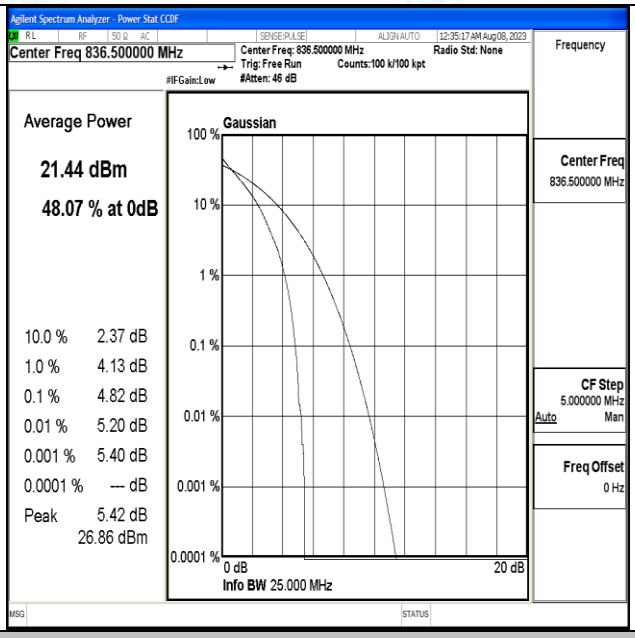
3MHz-20635



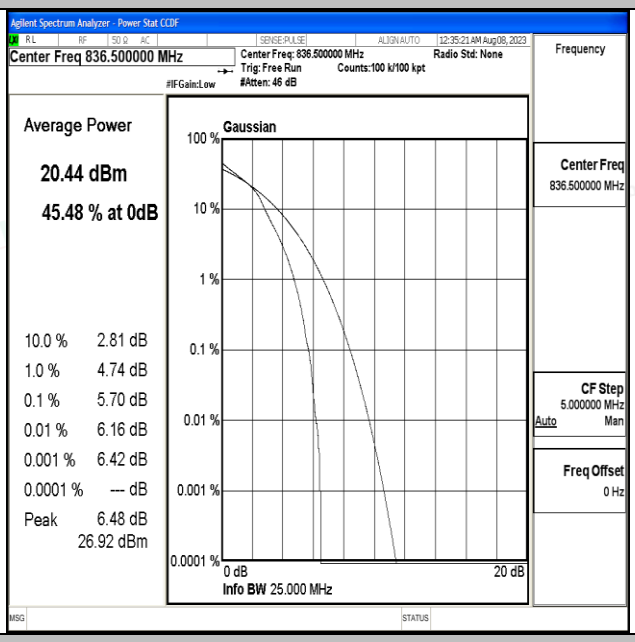
5MHz-20425



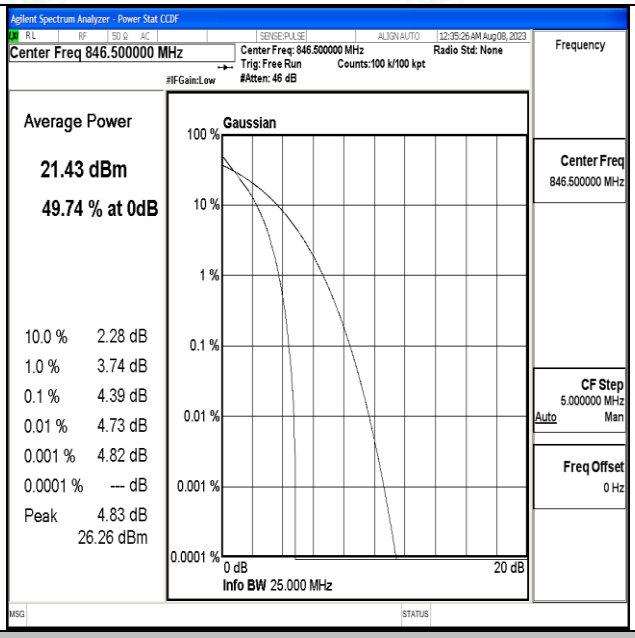
5MHz-20425



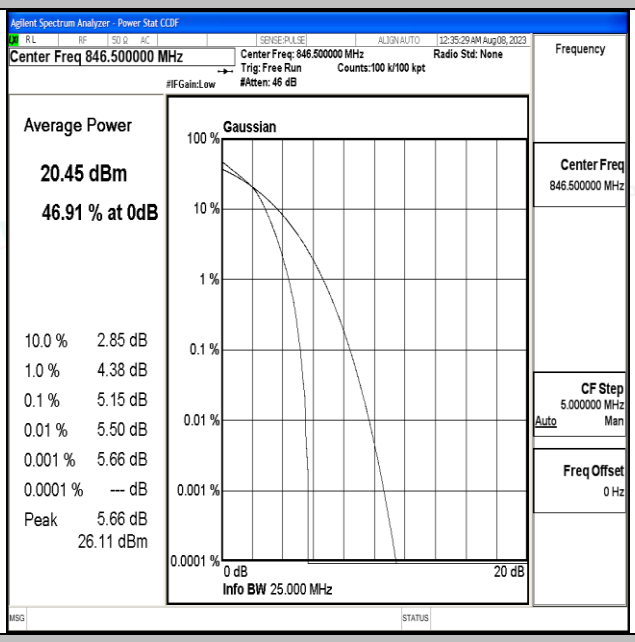
5MHz-20525



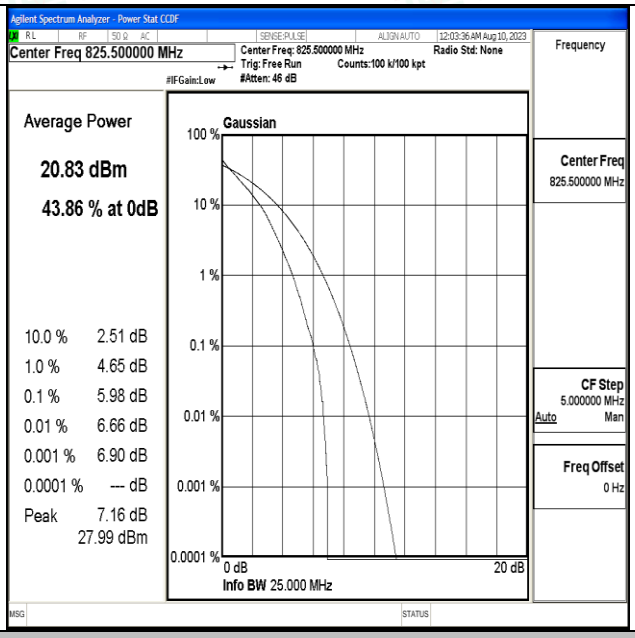
5MHz-20525



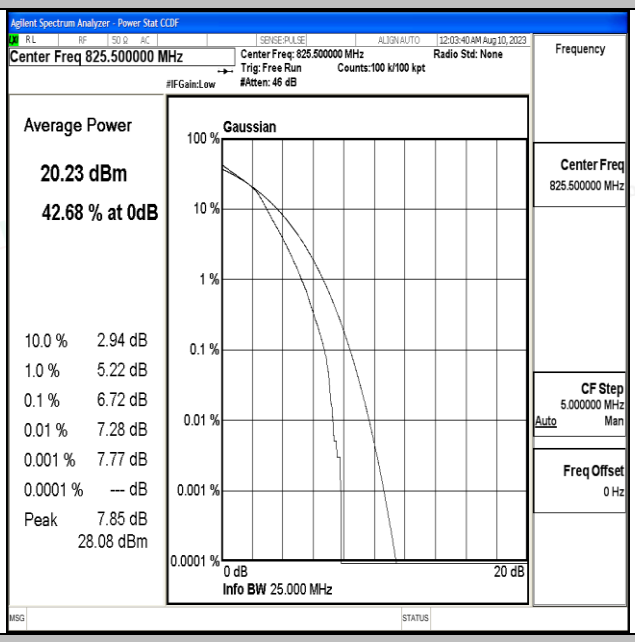
5MHz-20625



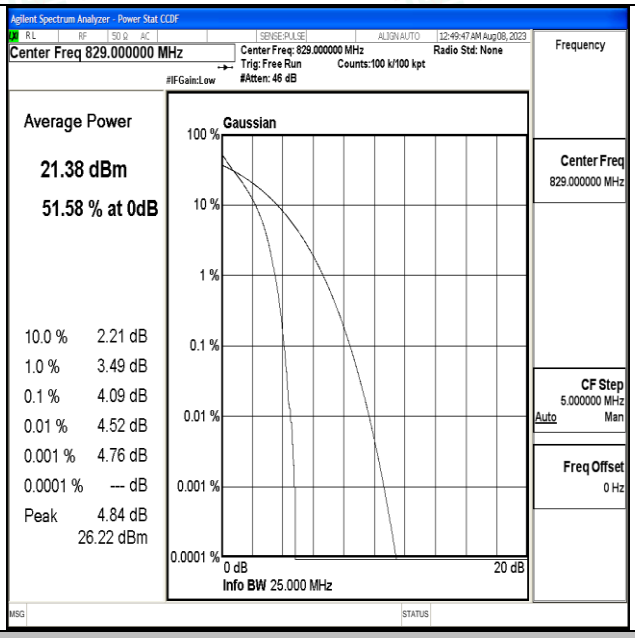
5MHz-20625



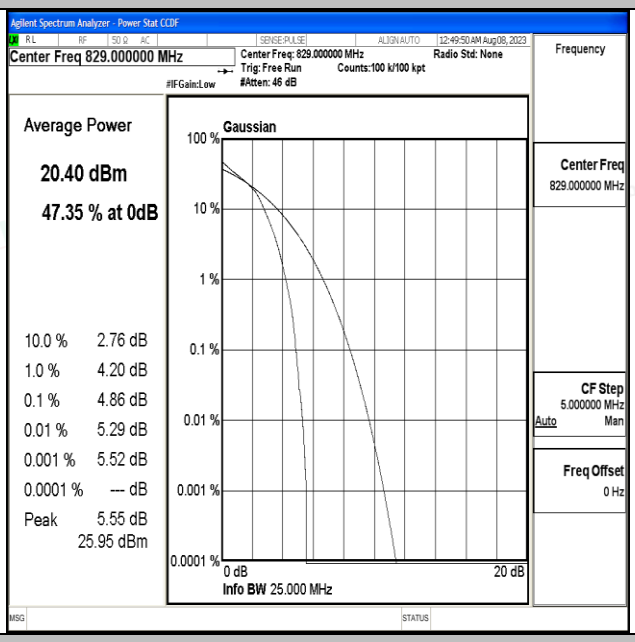
3MHz-20415



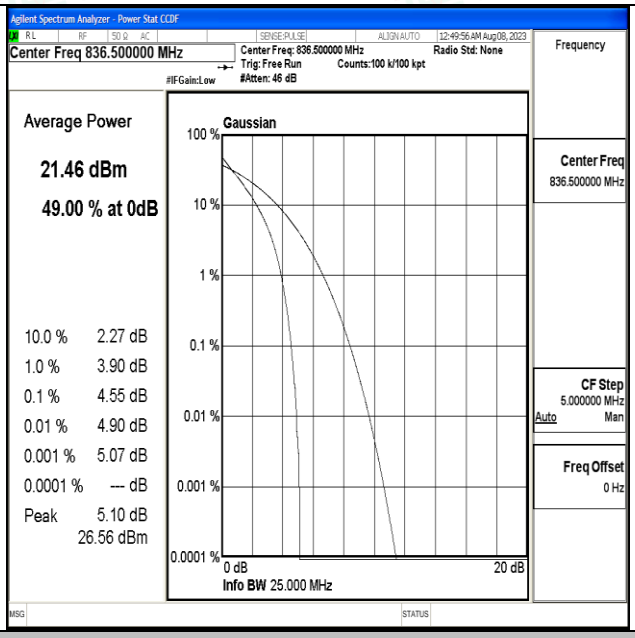
3MHz-20415



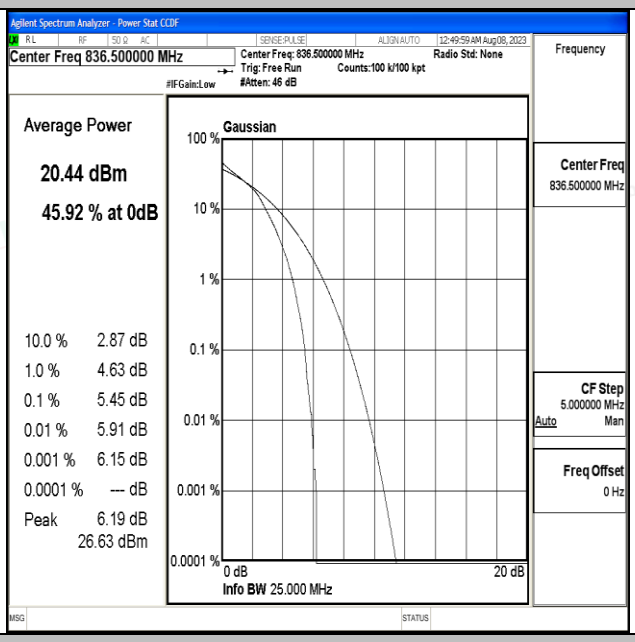
10MHz-20450



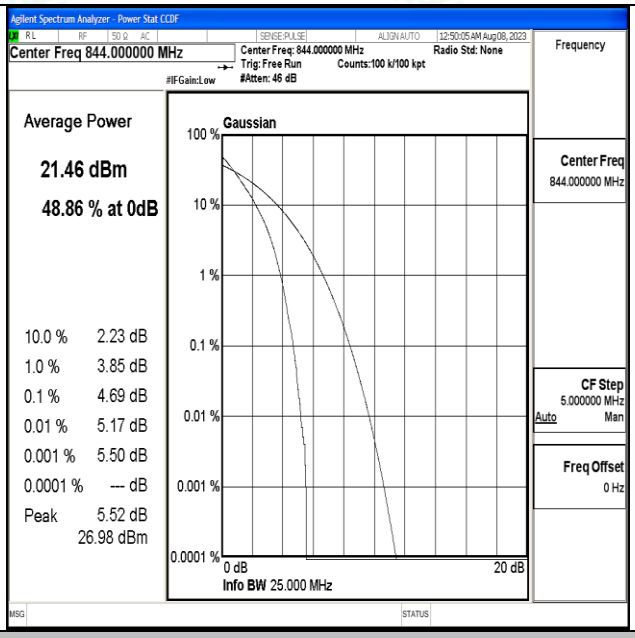
10MHz-20450



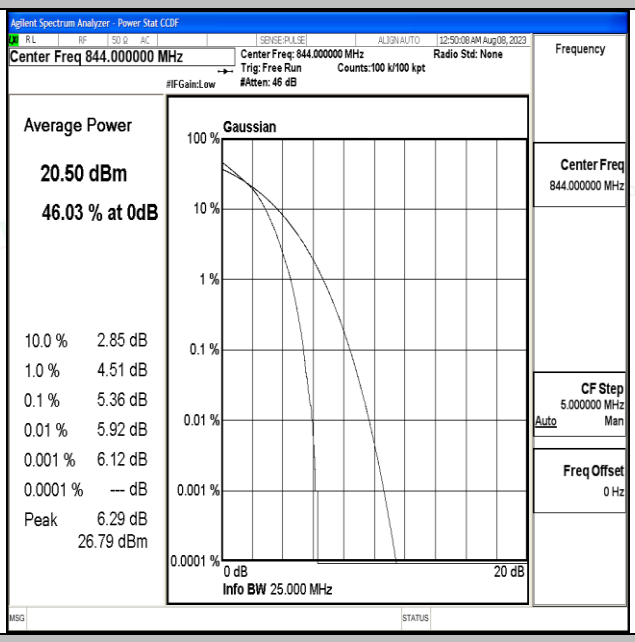
10MHz-20525



10MHz-20525



10MHz-20600



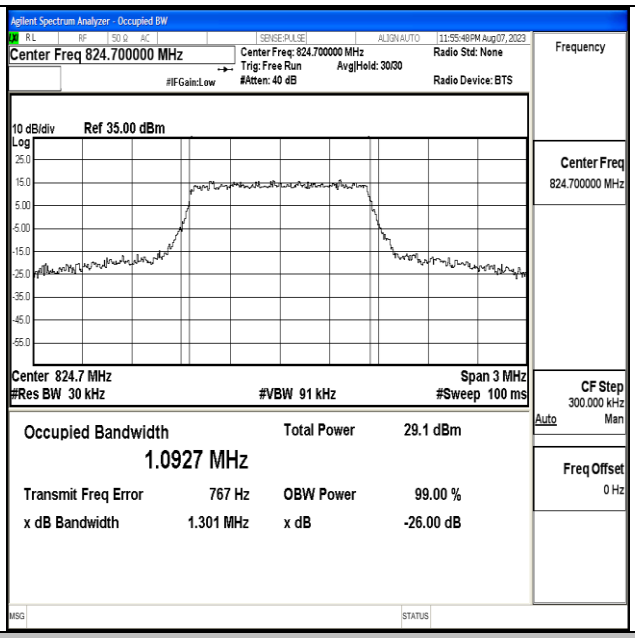
10MHz-20600

F.3 26dB Bandwidth and Occupied Bandwidth

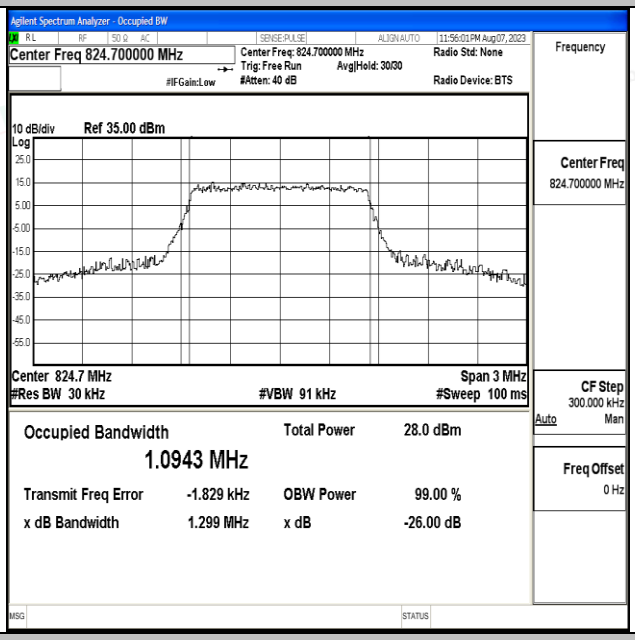
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0927	1.301	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0943	1.299	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0974	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0911	1.280	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0908	1.301	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0880	1.271	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6861	2.931	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6831	2.899	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6849	2.918	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6837	2.899	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6862	2.901	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.6882	2.910	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5400	5.278	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5263	5.183	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.5092	5.145	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5391	5.230	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5168	5.209	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5367	5.202	PASS
Band5	10MHz	QPSK	20450	50RB#0	9.0367	10.24	PASS
Band5	10MHz	16QAM	20450	50RB#0	9.0244	10.08	PASS
Band5	10MHz	QPSK	20525	50RB#0	9.0107	11.11	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9981	10.13	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.9980	10.18	PASS
Band5	10MHz	16QAM	20600	50RB#0	9.0206	10.11	PASS

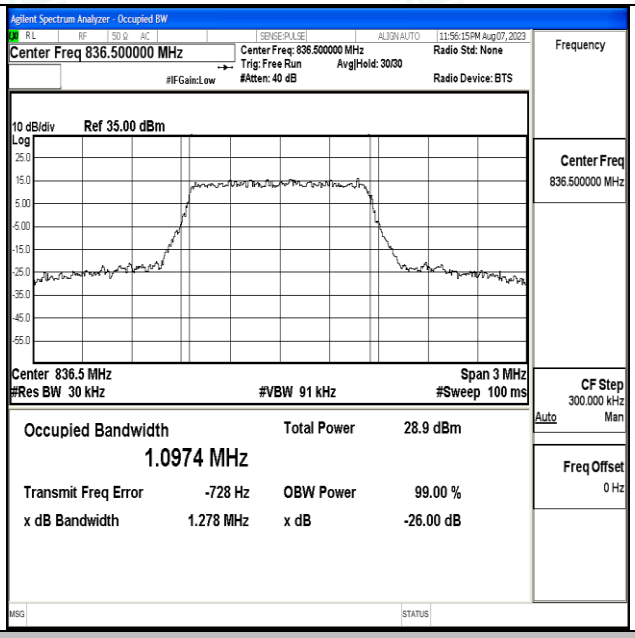
Test Graphs



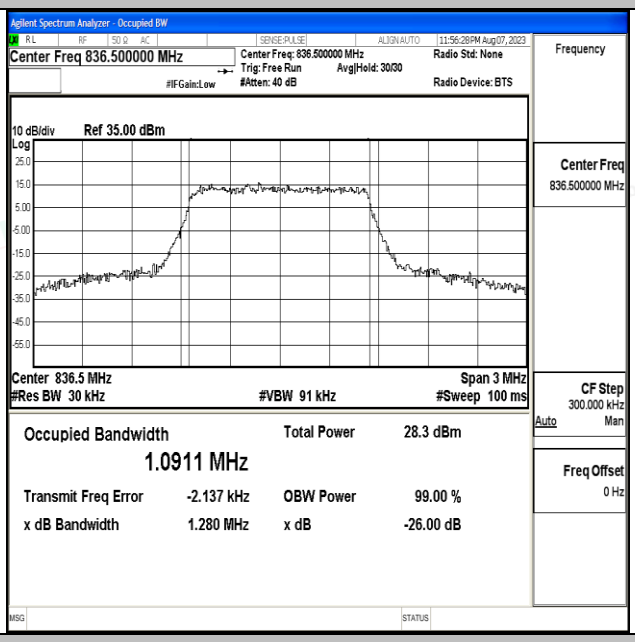
1.4MHz-20407



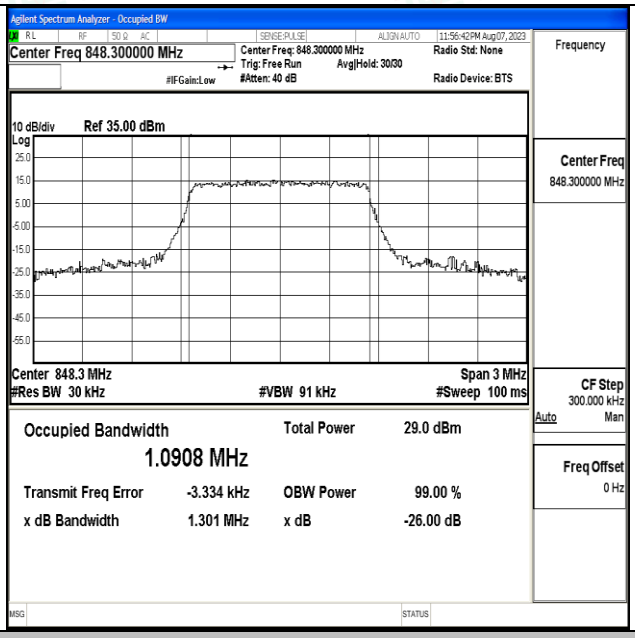
1.4MHz-20407



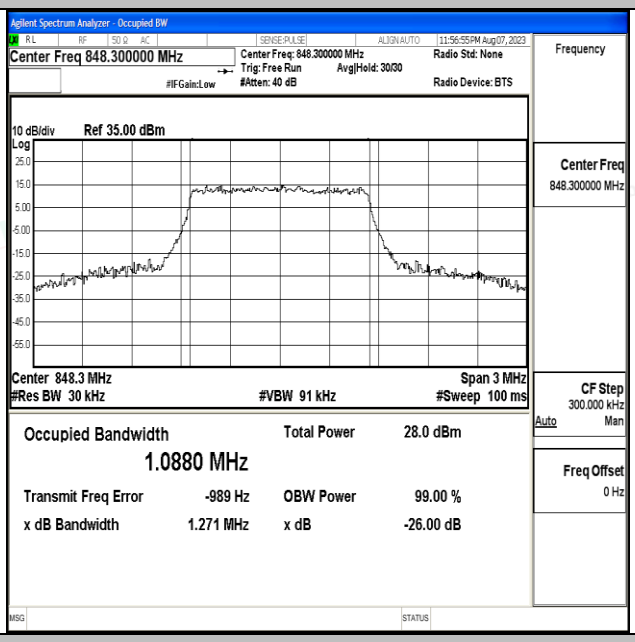
1.4MHz-20525



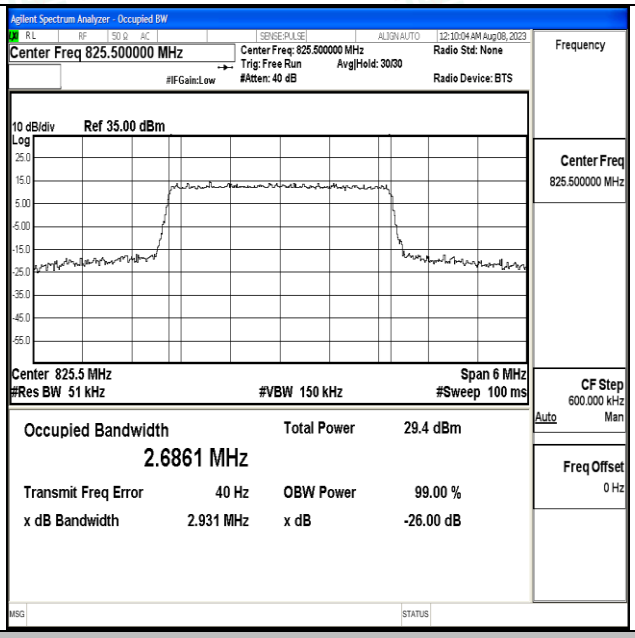
1.4MHz-20525



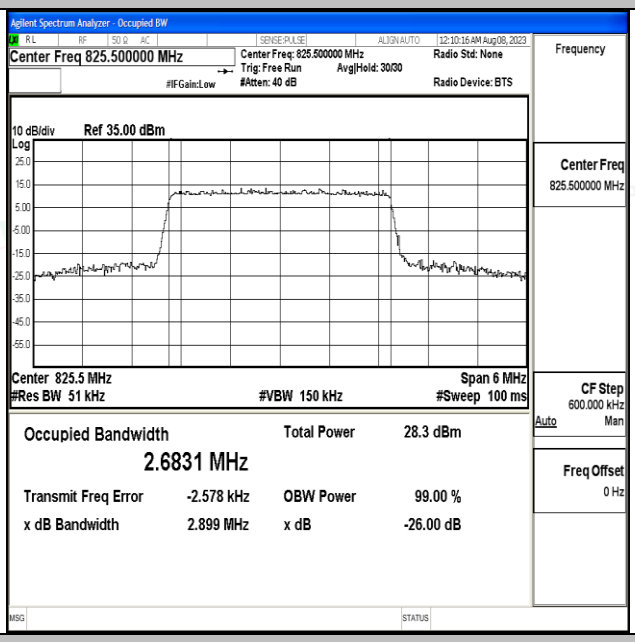
1.4MHz-20643



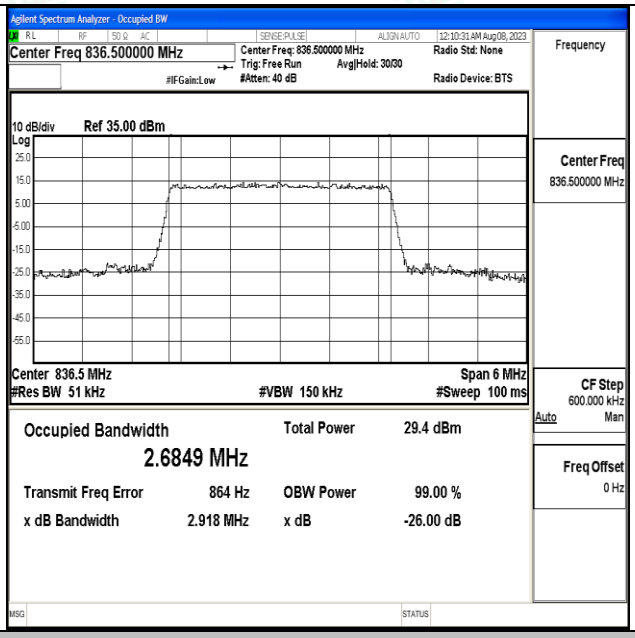
1.4MHz-20643



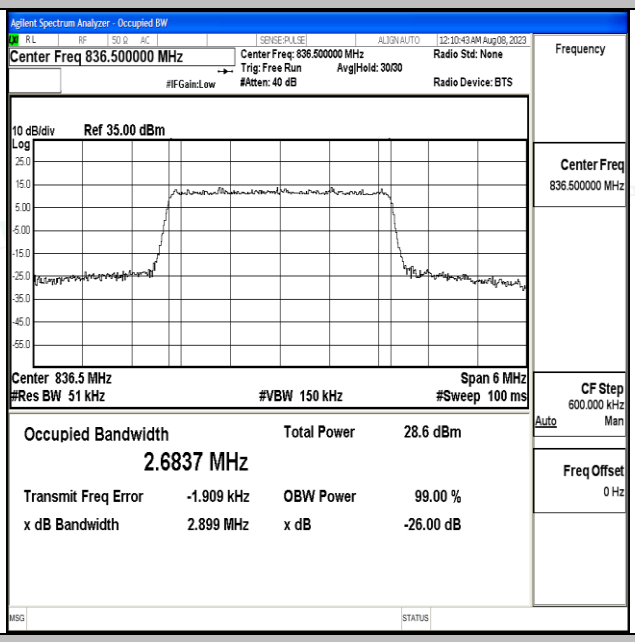
3MHz-20415



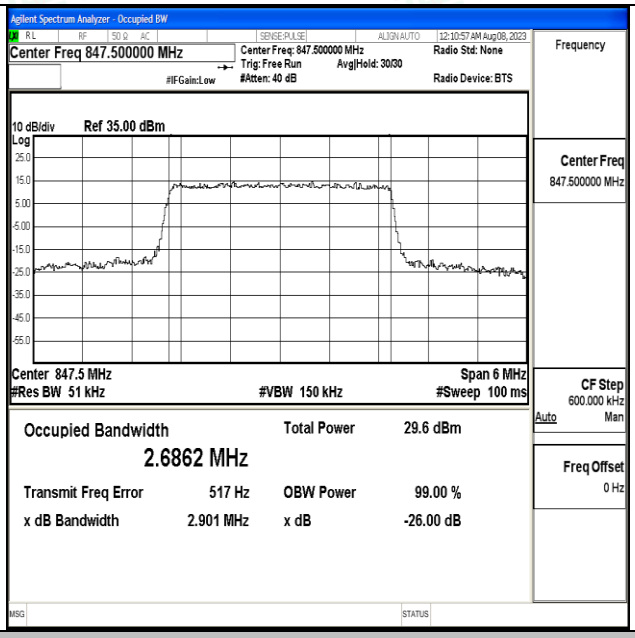
3MHz-20415



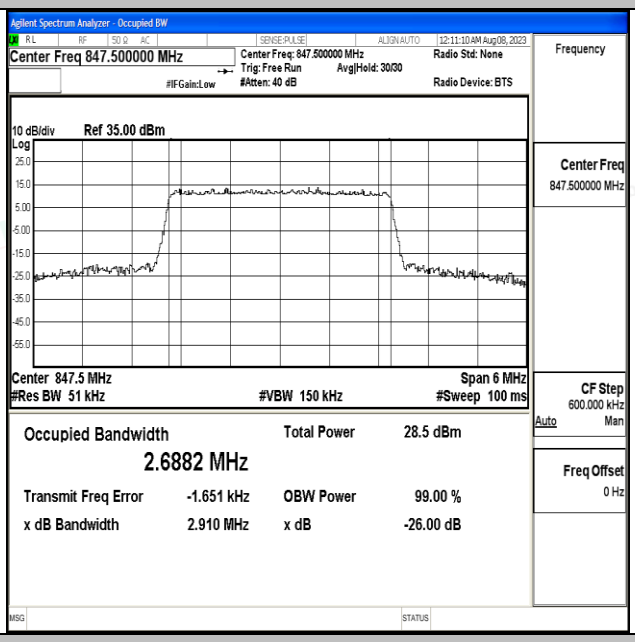
3MHz-20525



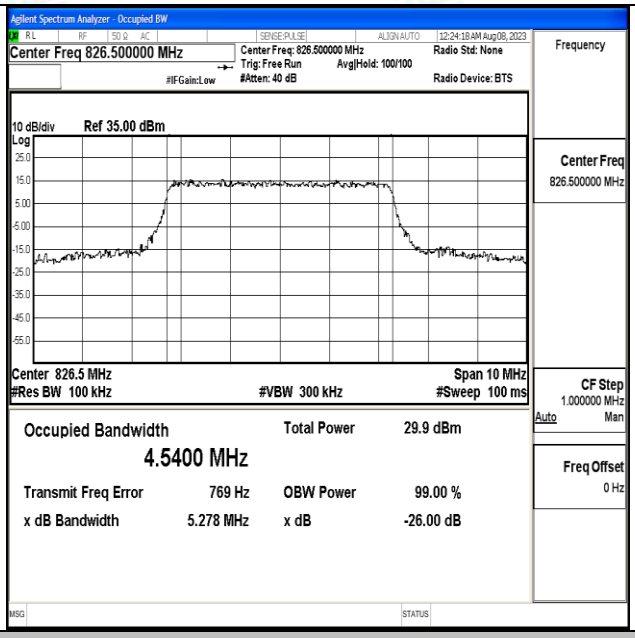
3MHz-20525



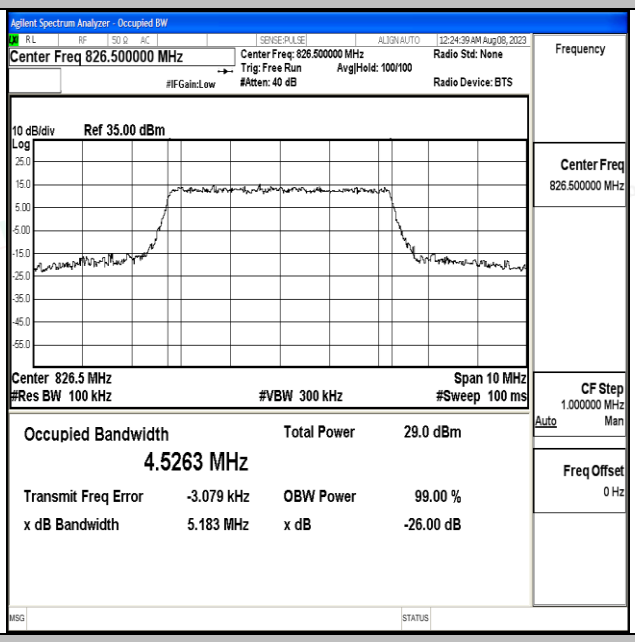
3MHz-20635



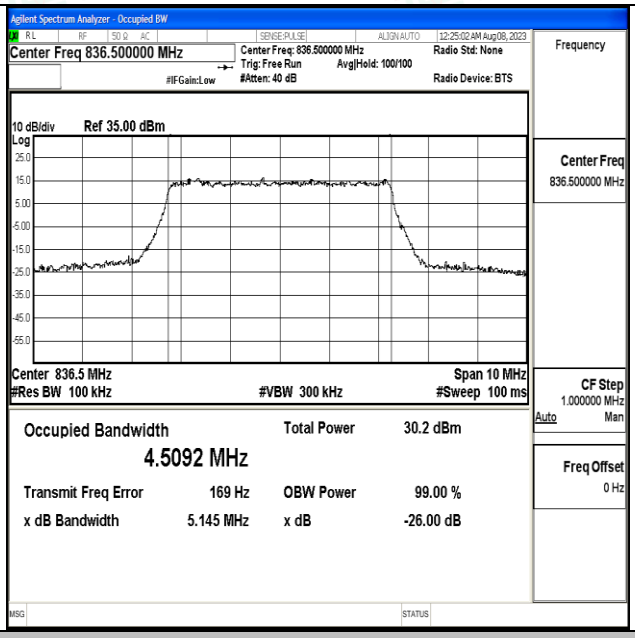
3MHz-20635



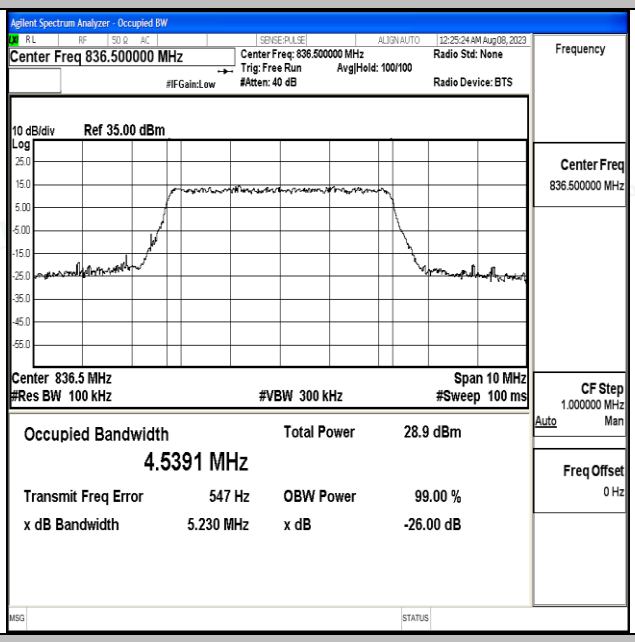
5MHz-20425



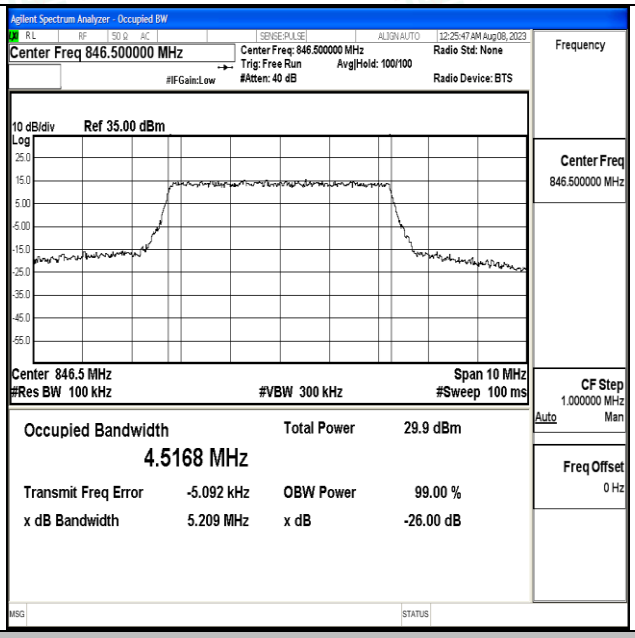
5MHz-20425



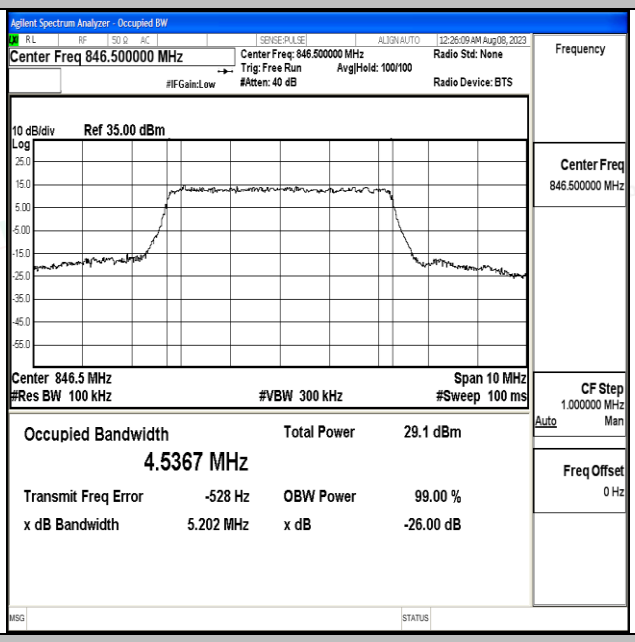
5MHz-20525



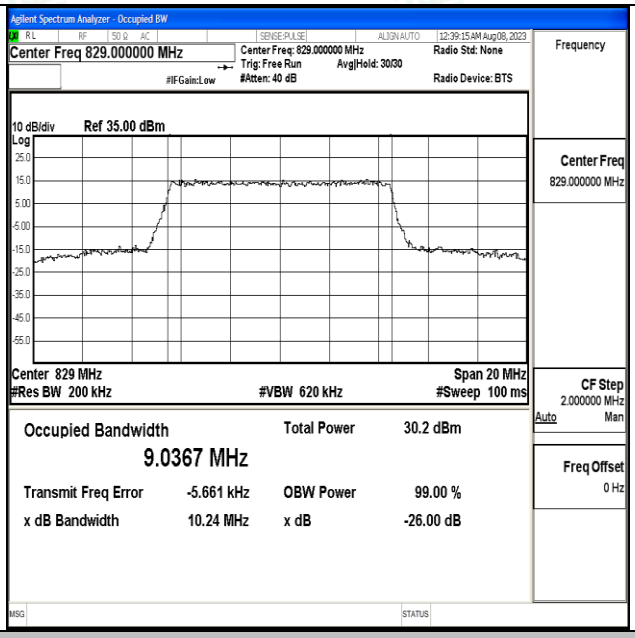
5MHz-20525



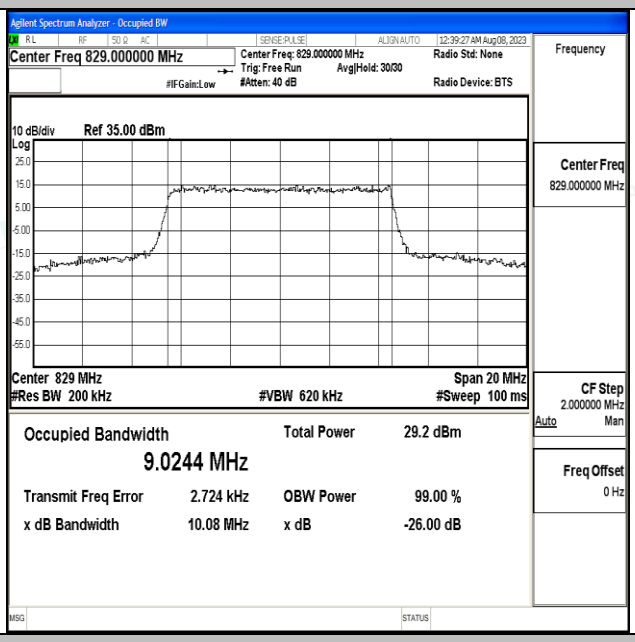
5MHz-20625



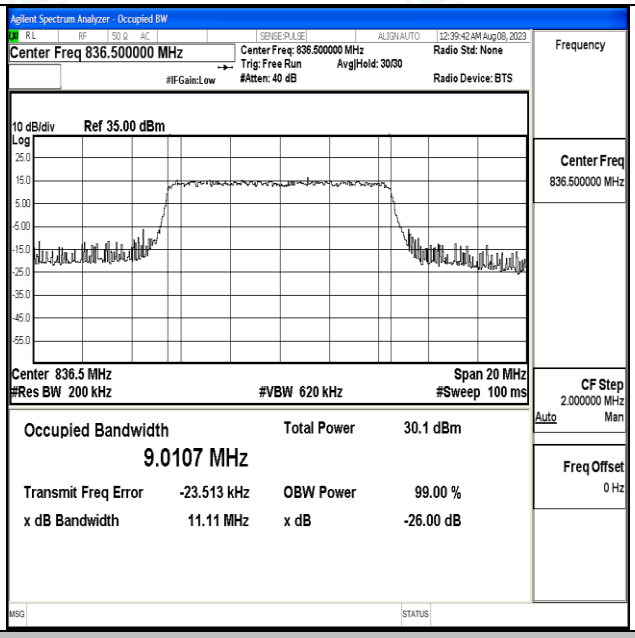
5MHz-20625



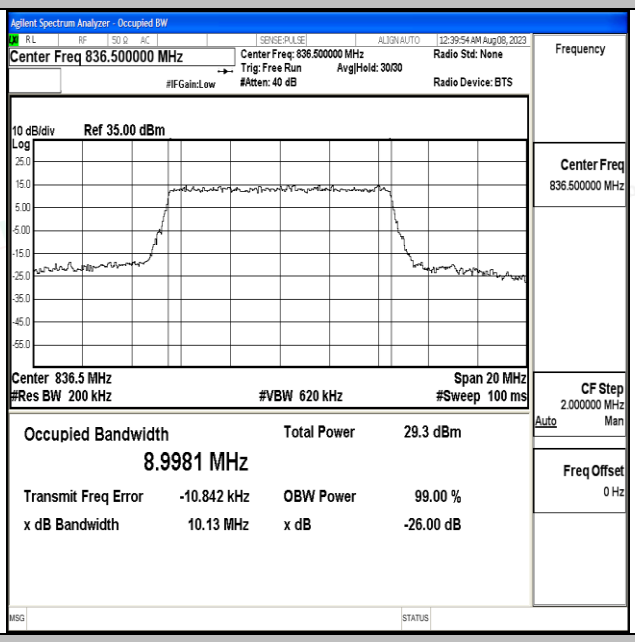
10MHz-20450



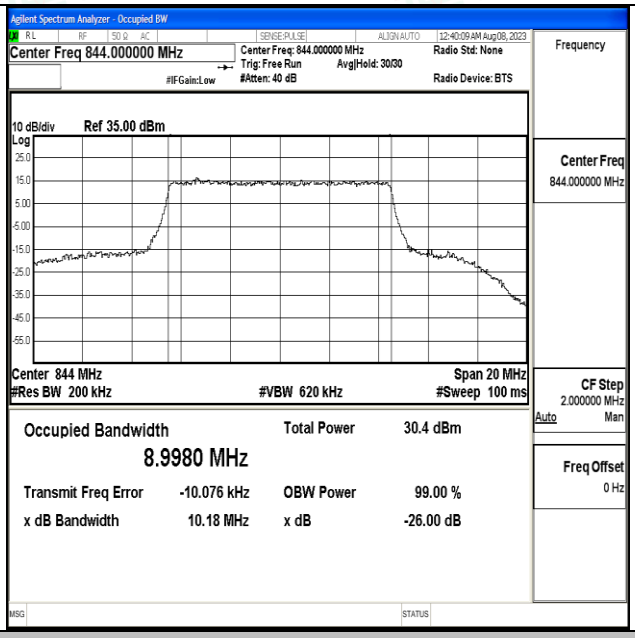
10MHz-20450



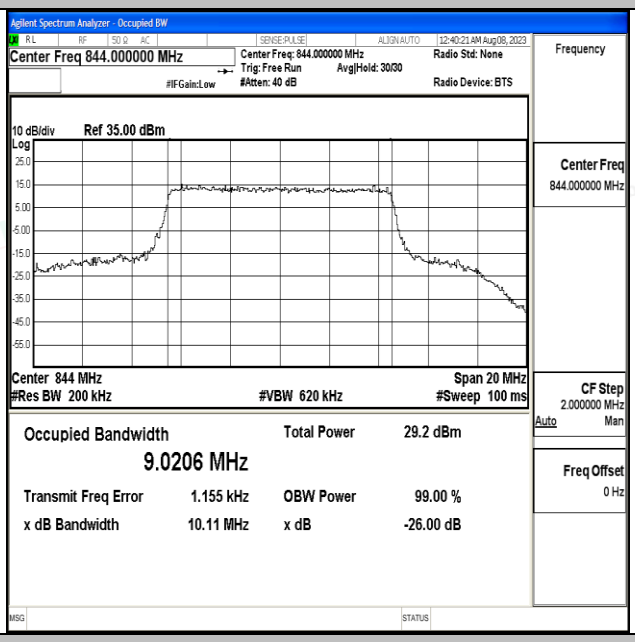
10MHz-20525



10MHz-20525



10MHz-20600



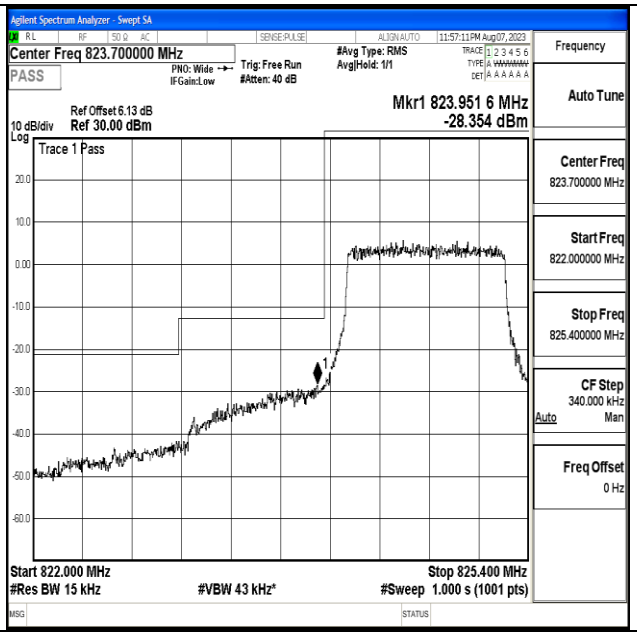
10MHz-20600

F.4 Band Edge

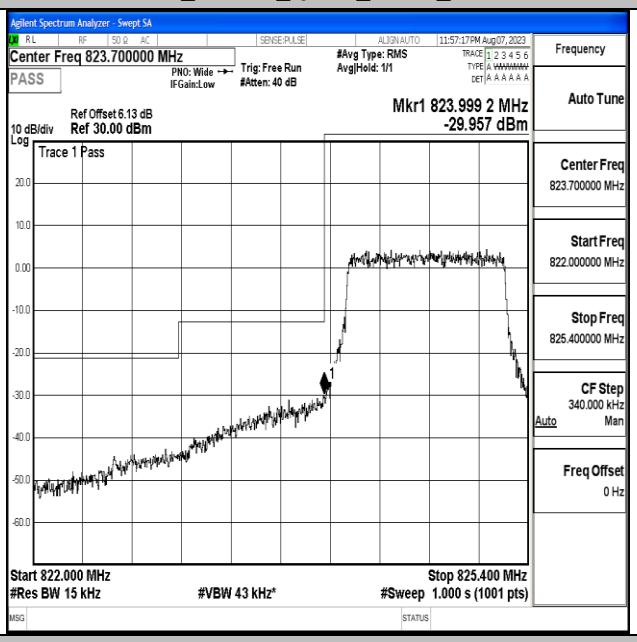
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	823.95	-28.35	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	824.00	-29.96	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	849.01	-29.64	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	849.00	-30.79	PASS
Band5	3MHz	QPSK	20415	15RB#0	822.92	-30.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	822.86	-33.53	PASS
Band5	3MHz	QPSK	20635	15RB#0	850.08	-34.46	PASS
Band5	3MHz	16QAM	20635	15RB#0	849.01	-31.94	PASS
Band5	5MHz	QPSK	20425	25RB#0	823.99	-24.84	PASS
Band5	5MHz	16QAM	20425	25RB#0	823.98	-26.00	PASS
Band5	5MHz	QPSK	20625	25RB#0	849.01	-25.59	PASS
Band5	5MHz	16QAM	20625	25RB#0	849.03	-26.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	823.99	-25.54	PASS
Band5	10MHz	16QAM	20450	50RB#0	823.82	-28.64	PASS
Band5	10MHz	QPSK	20600	50RB#0	849.01	-27.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	849.07	-28.95	PASS

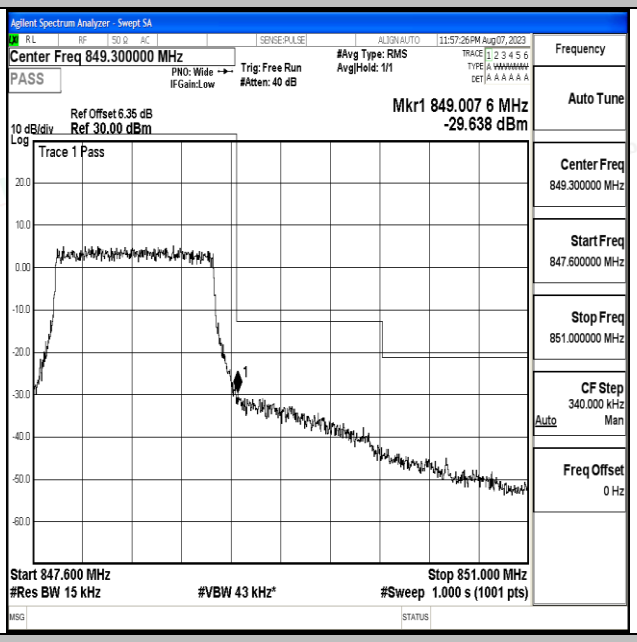
Test Graphs



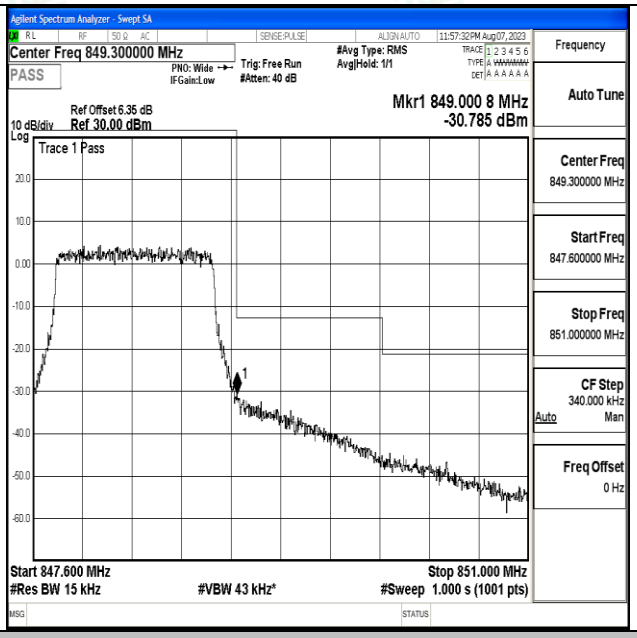
Band5_1.4MHz_QPSK_20407_6RB#0



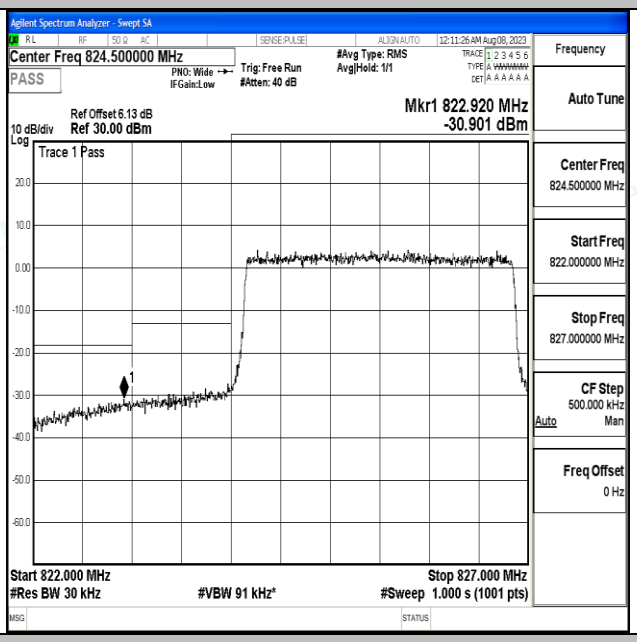
Band5_1.4MHz_16QAM_20407_6RB#0



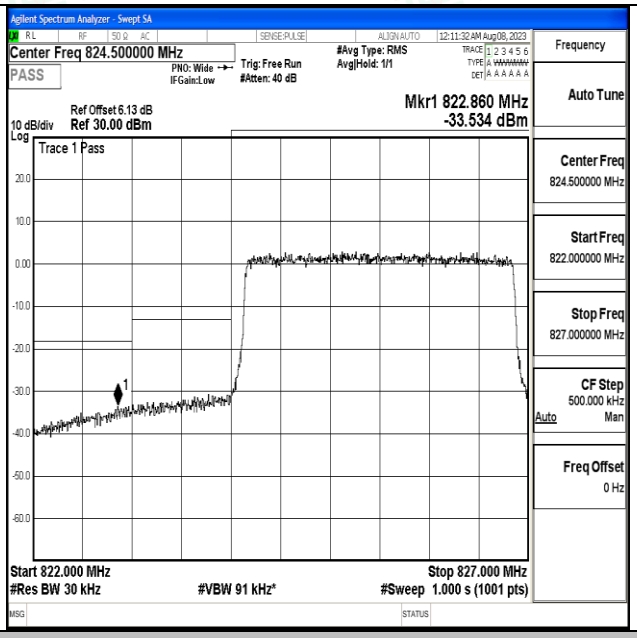
Band5_1.4MHz_QPSK_20643_6RB#0



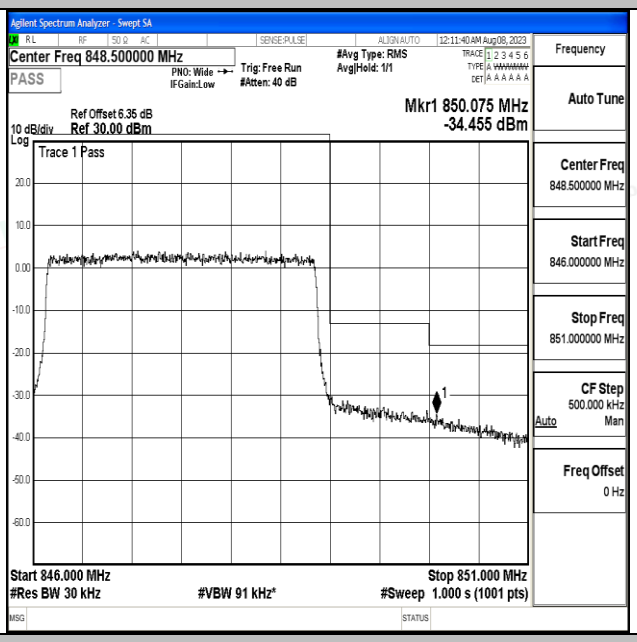
Band5_1.4MHz_16QAM_20643_6RB#0



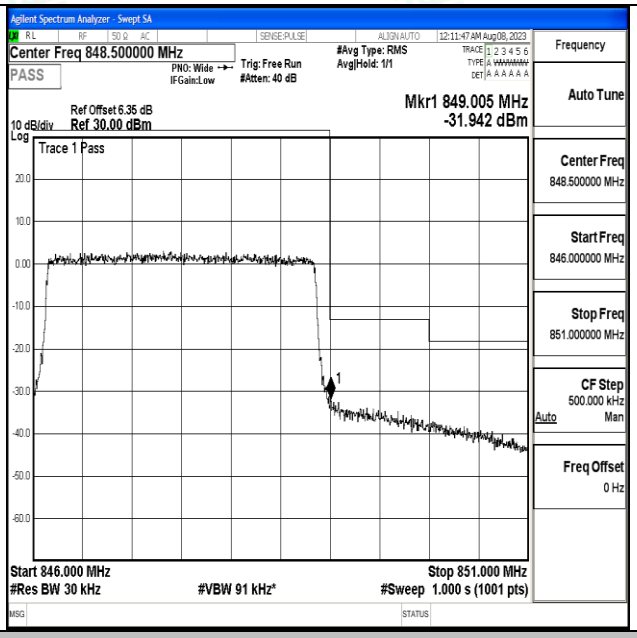
Band5_3MHz_QPSK_20415_15RB#0



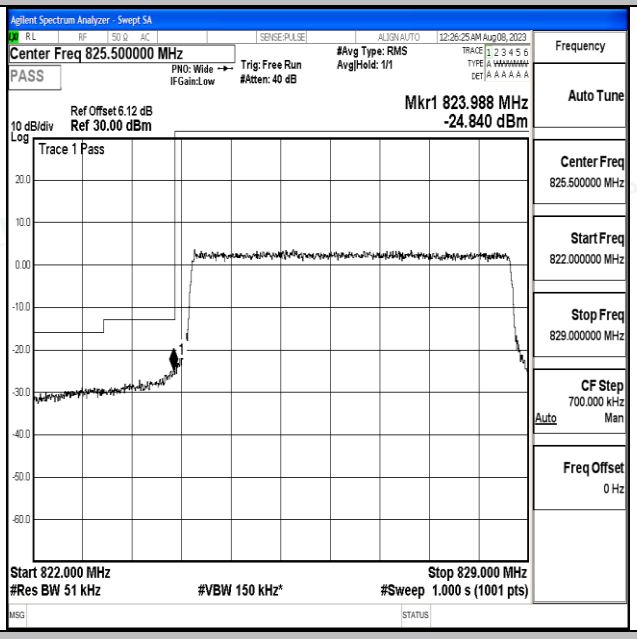
Band5_3MHz_16QAM_20415_15RB#0



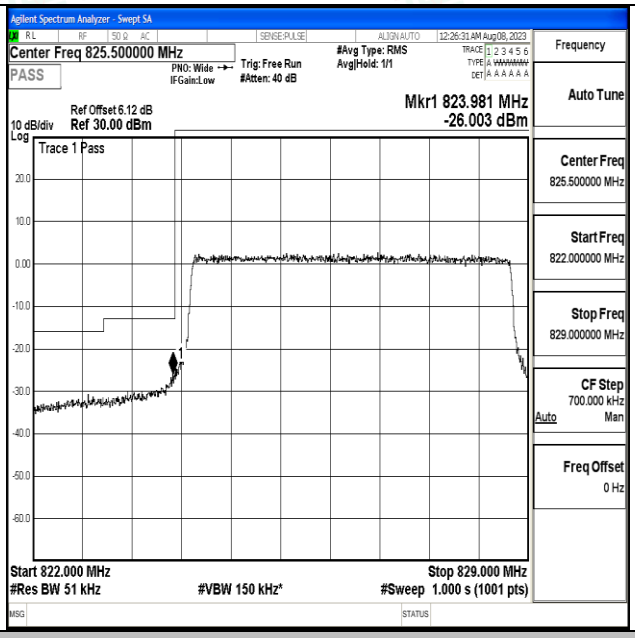
Band5_3MHz_QPSK_20635_15RB#0



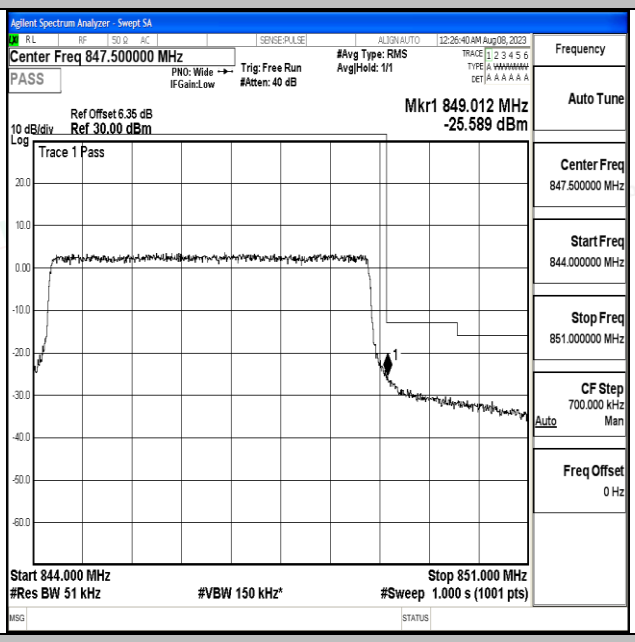
Band5_3MHz_16QAM_20635_15RB#0



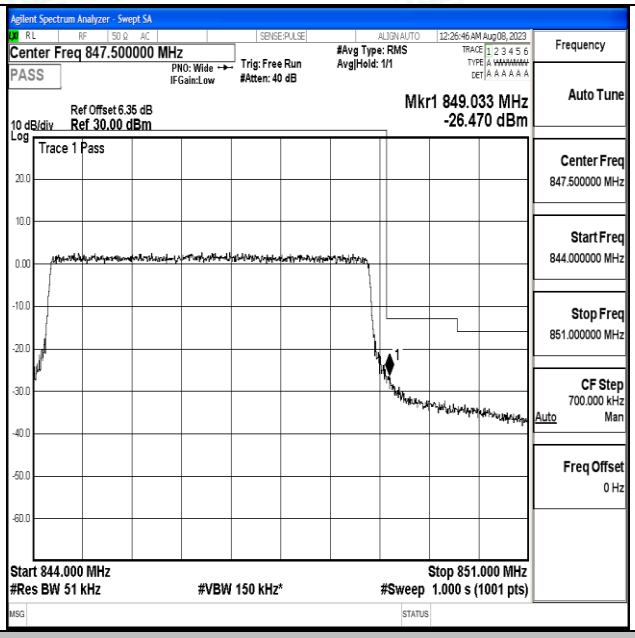
Band5_5MHz_QPSK_20425_25RB#0



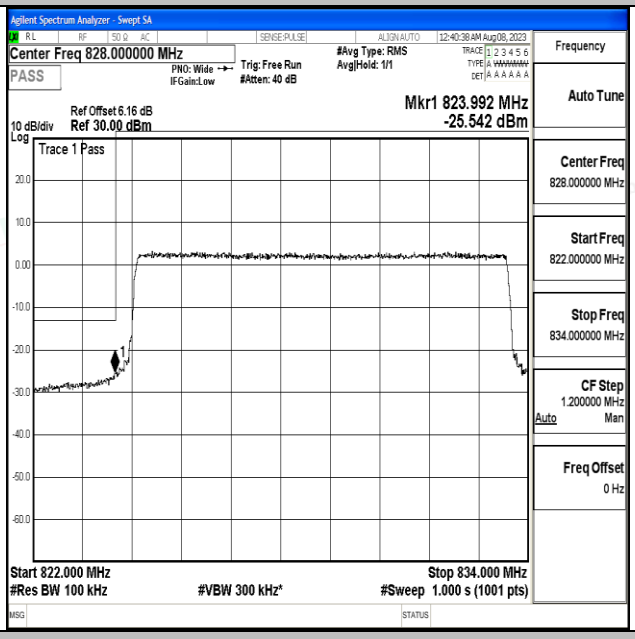
Band5_5MHz_16QAM_20425_25RB#0



Band5_5MHz_QPSK_20625_25RB#0



Band5_5MHz_16QAM_20625_25RB#0



Band5_10MHz_QPSK_20450_50RB#0