

Appendix for Band 12

Product Name: LTE Module
Model No: Global-7243A4x4CB

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.73	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.85	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.84	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.74	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.73	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.68	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.68	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.72	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.78	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.81	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.72	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.79	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.72	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.96	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.01	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.66	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.60	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.71	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.05	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.73	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.67	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.73	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.64	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.76	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.88	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.88	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.73	PASS

Band12	1.4MHz	16QAM	23095	3RB#0	22.72	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.85	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.82	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.85	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.67	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.12	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.47	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.56	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.71	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.84	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.64	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.60	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.68	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.69	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.64	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.61	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.61	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.86	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.75	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.80	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.78	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.80	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.84	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.83	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.69	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.67	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.81	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.86	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.70	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.72	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.59	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.42	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.45	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.73	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.78	PASS

Band12	3MHz	16QAM	23025	8RB#7	21.67	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.63	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.88	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.70	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.79	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.80	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.94	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.86	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.76	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.85	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.71	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.43	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.87	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.94	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.81	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.72	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.69	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.63	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.72	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.59	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.57	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.60	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.61	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.70	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.78	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.74	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.76	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.84	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.66	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.73	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.69	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.68	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.68	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.69	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.72	PASS

Band12	5MHz	16QAM	23035	1RB#0	22.70	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.72	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.65	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.68	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.61	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.60	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.64	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.93	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.00	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.80	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.70	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.84	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.68	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.93	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.51	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.74	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.55	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.61	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.53	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.62	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.80	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.48	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.84	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.40	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.79	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.83	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.79	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.67	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.52	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.59	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.27	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.71	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.78	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.68	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.76	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.51	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.89	PASS

Band12	10MHz	QPSK	23130	1RB#49	23.83	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.78	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.69	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.45	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.04	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.61	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.62	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.87	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.81	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.29	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.03	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.50	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.71	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.78	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.82	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.67	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.39	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.89	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.74	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.83	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.81	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.76	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.83	PASS

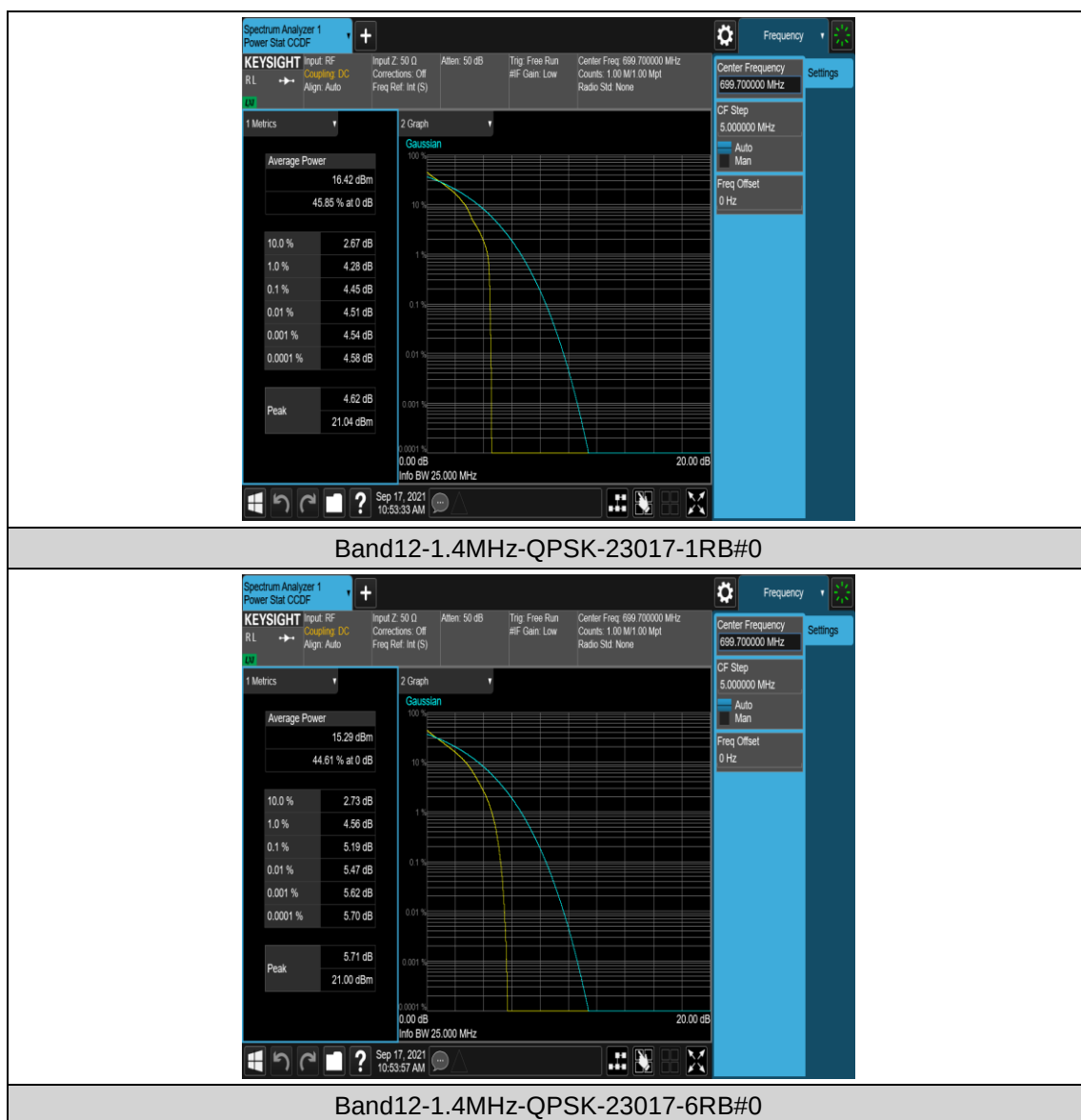
Appendix B: Peak-to-Average Ratio(CCDF)

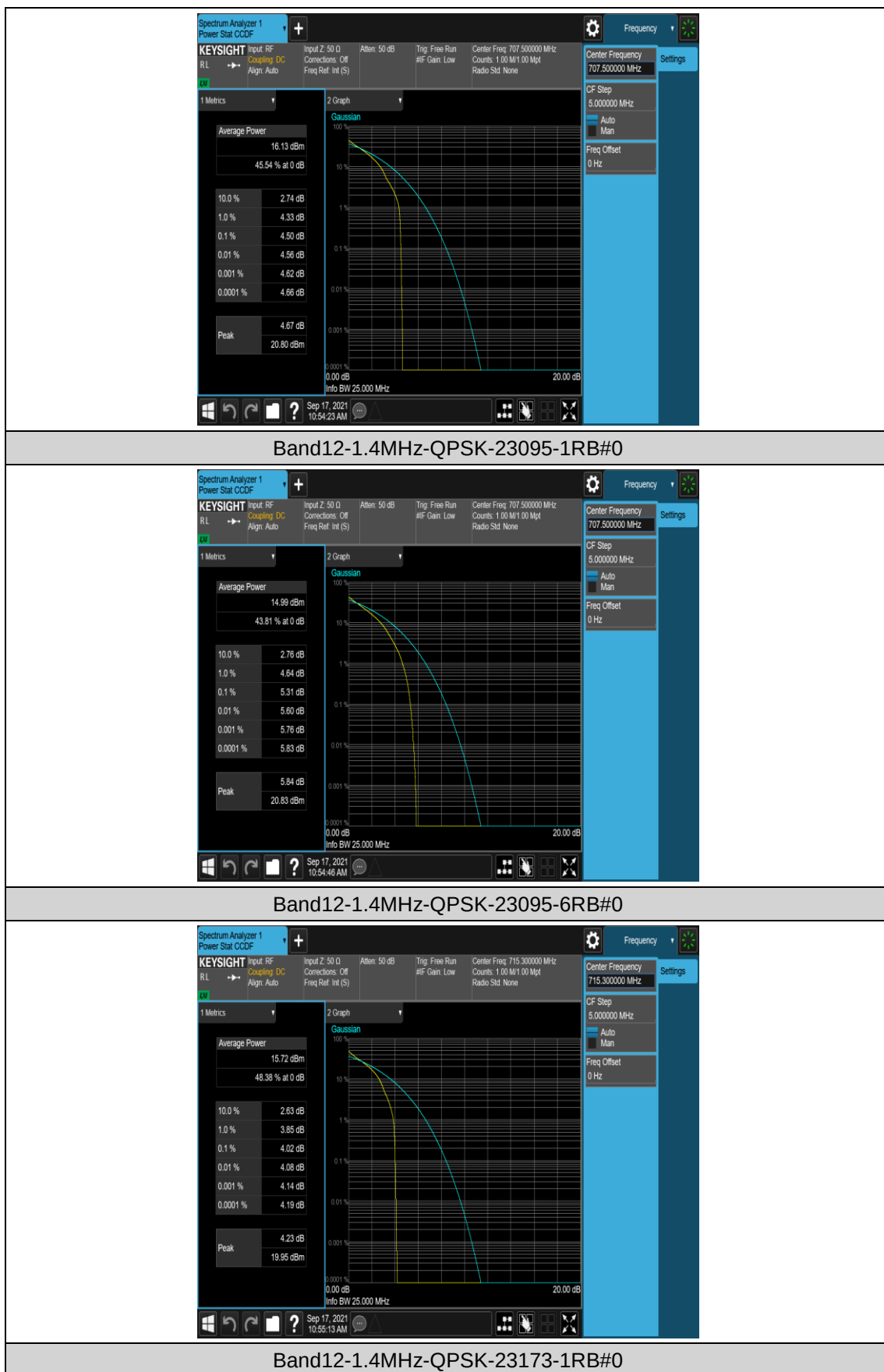
Test Result

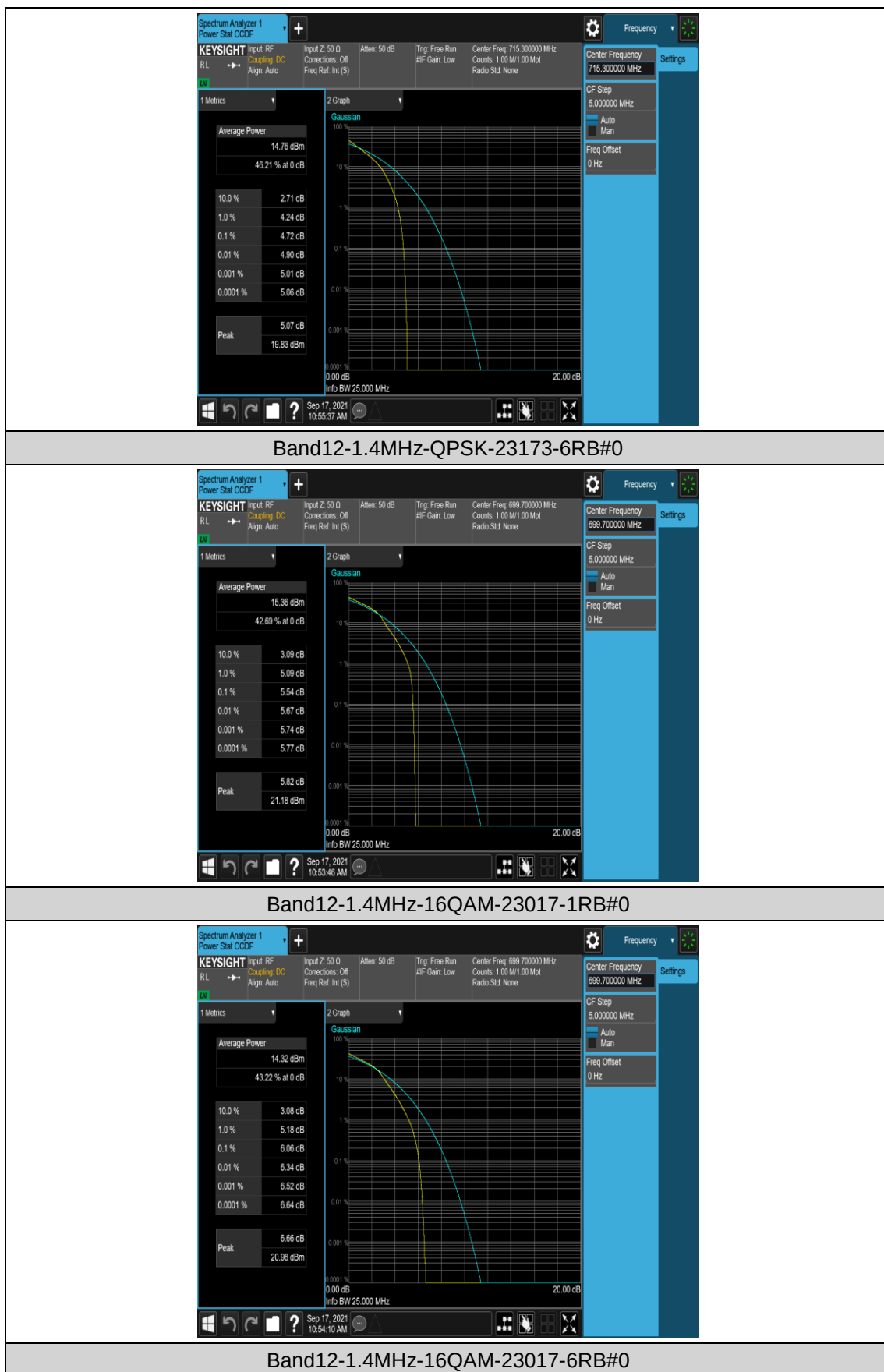
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.45	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.19	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.50	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.31	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.02	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.72	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.54	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.06	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.52	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.19	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.97	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.64	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.50	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.16	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.49	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.36	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.03	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.88	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.04	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.51	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.23	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.94	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.80	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.44	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.16	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.37	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.35	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.30	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.07	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.60	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.02	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.32	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.18	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.39	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.79	13	PASS

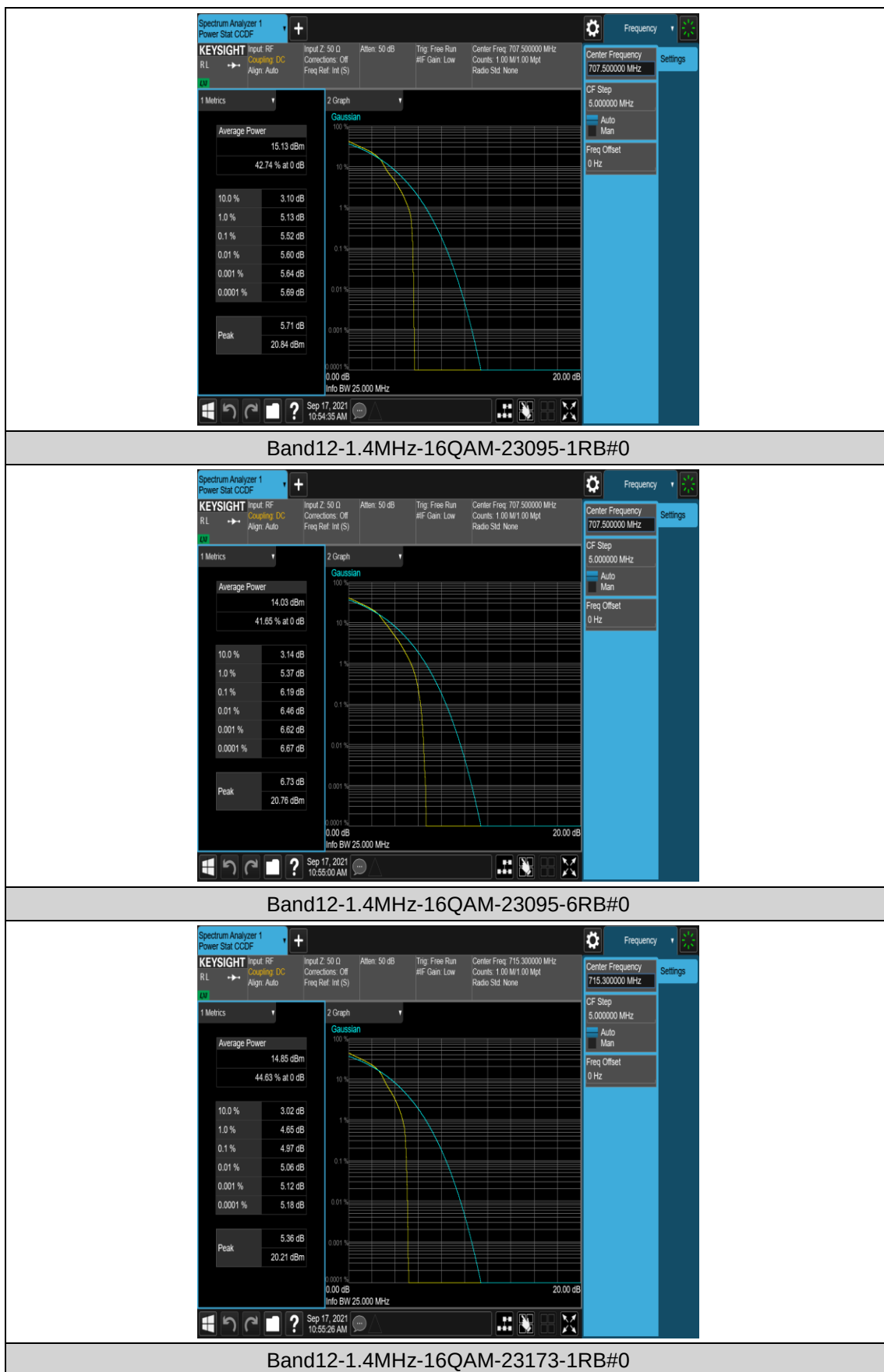
Band12	10MHz	QPSK	23060	1RB#0	4.50	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.29	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.30	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.26	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.57	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.12	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.34	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.17	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.58	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.98	13	PASS

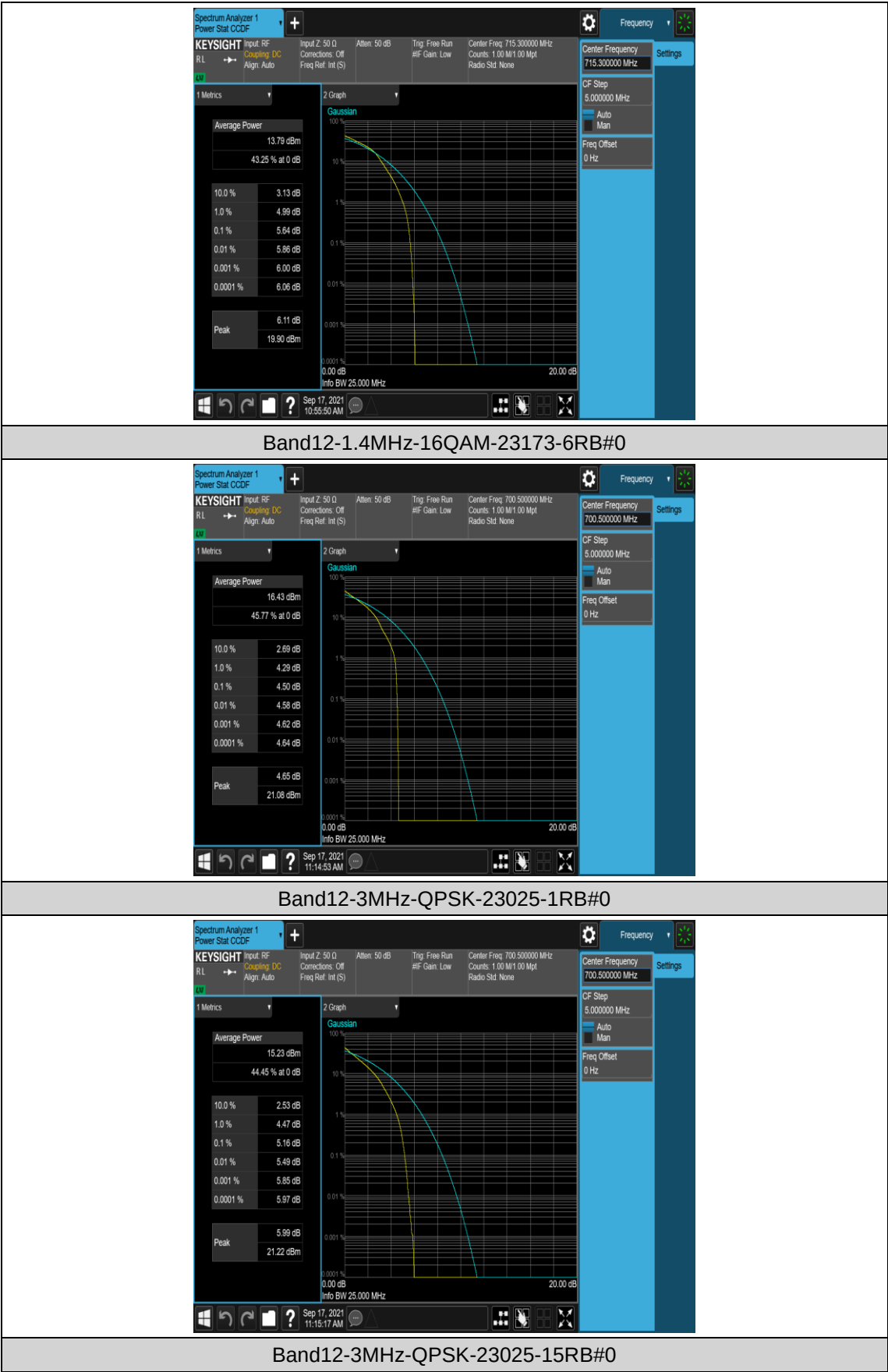
Test Graphs

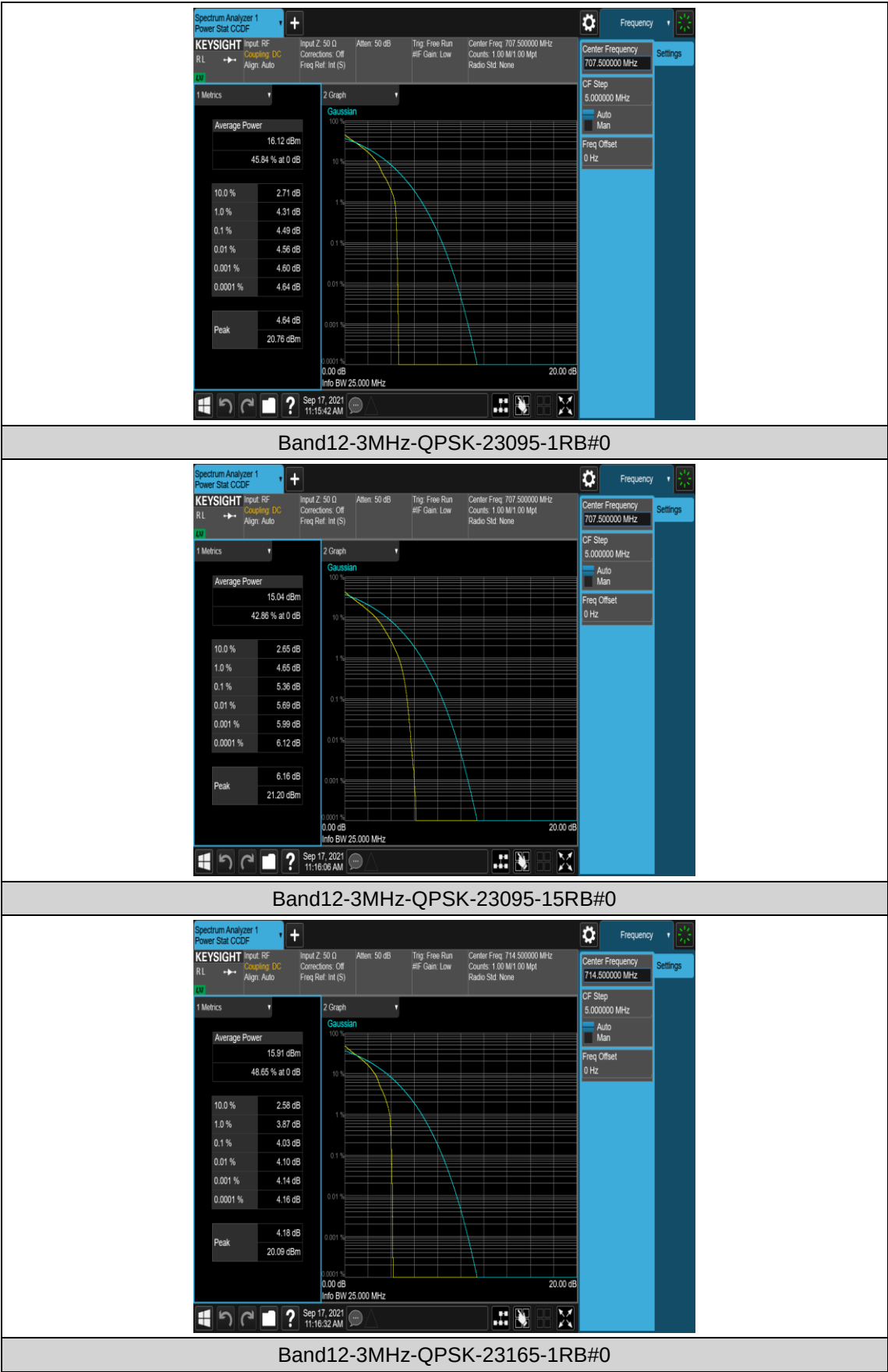


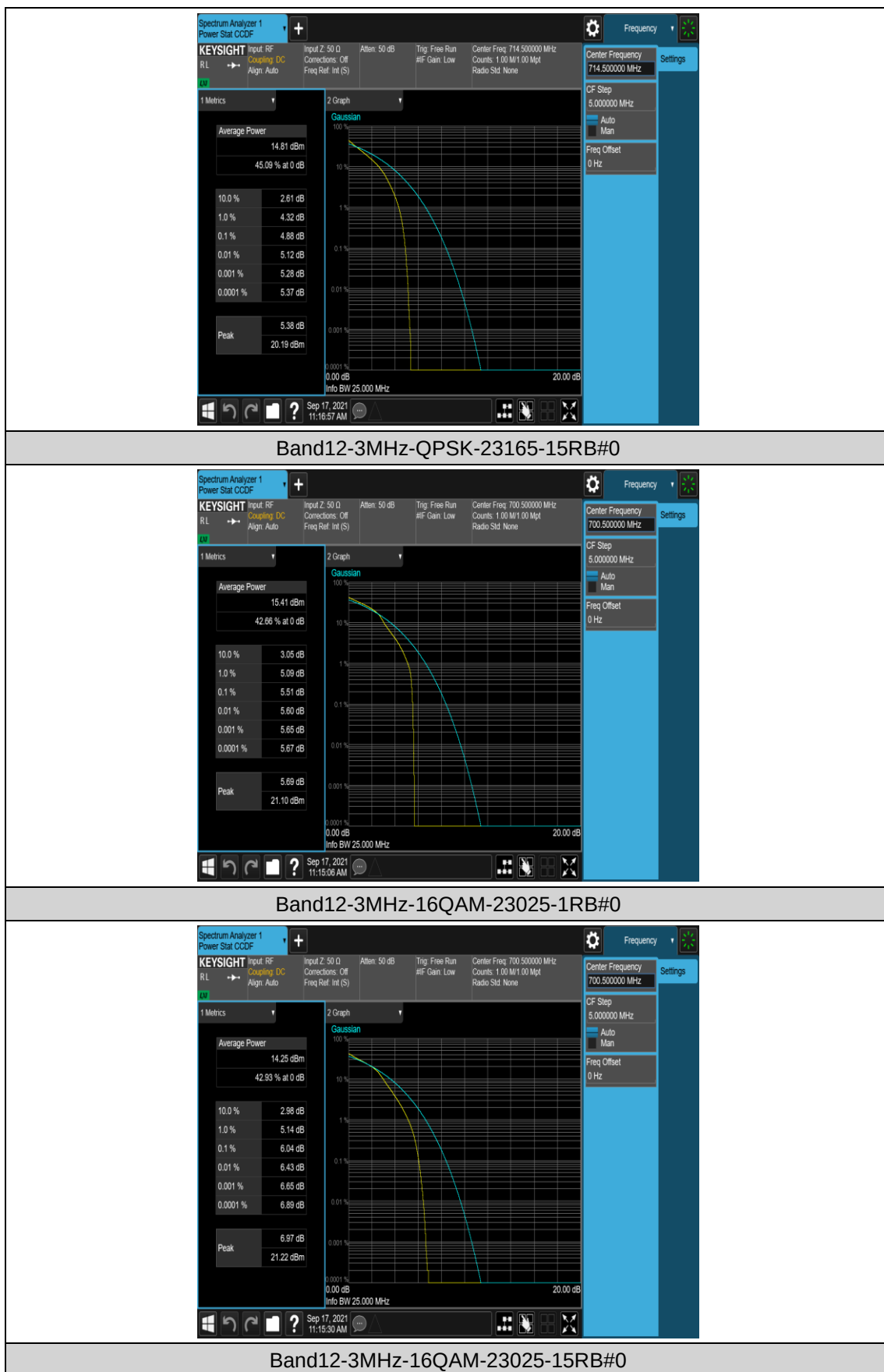


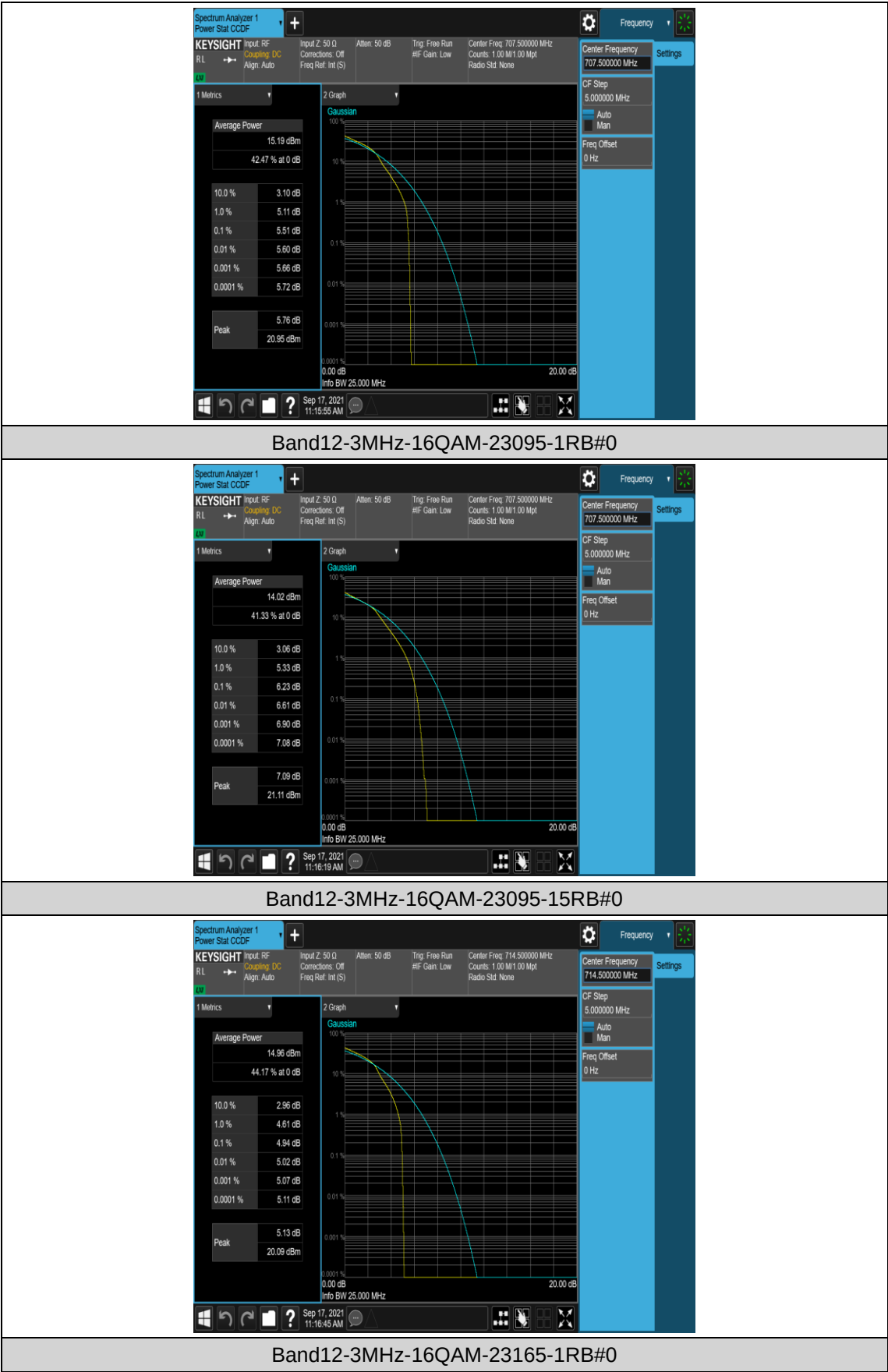


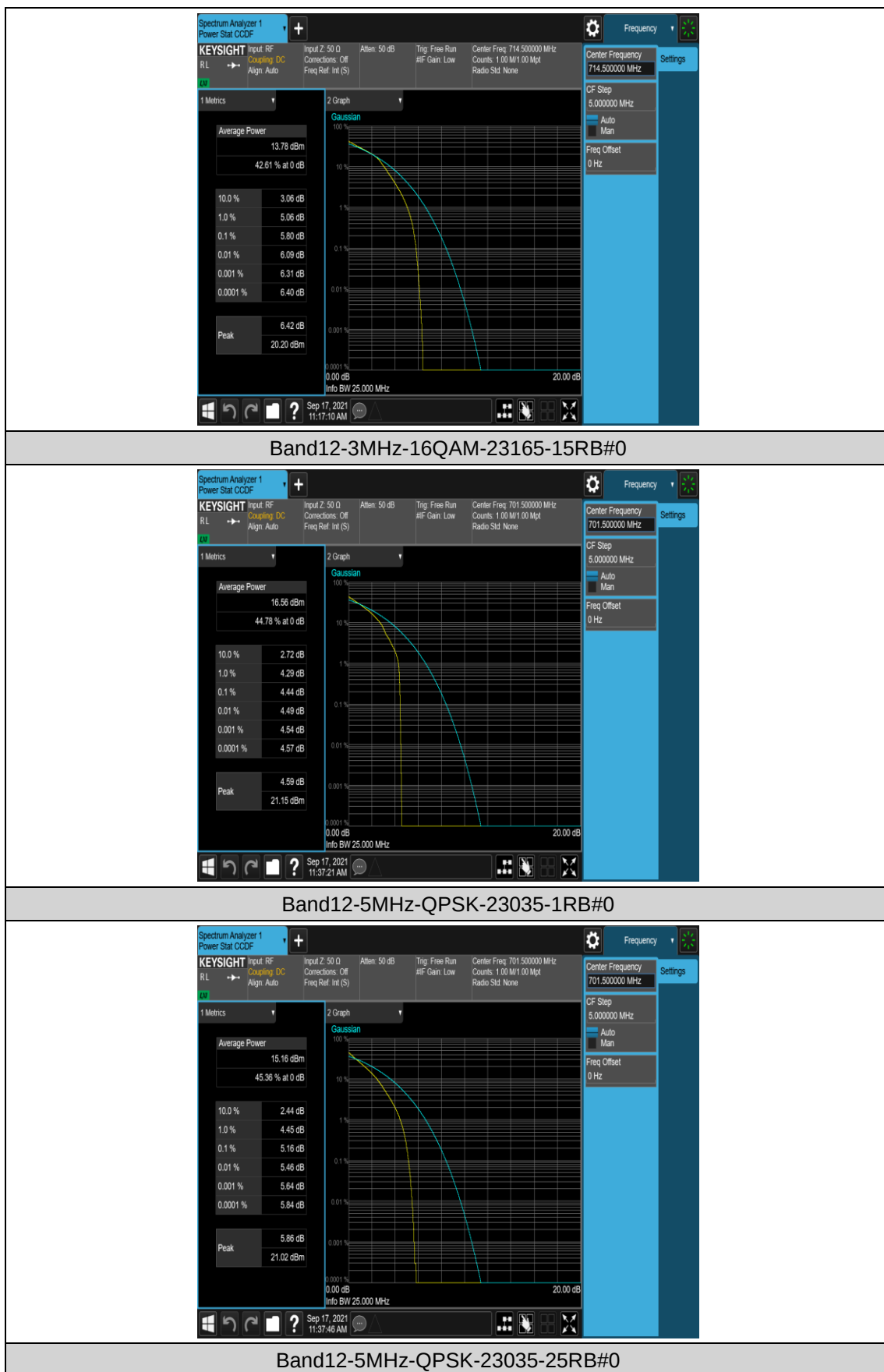


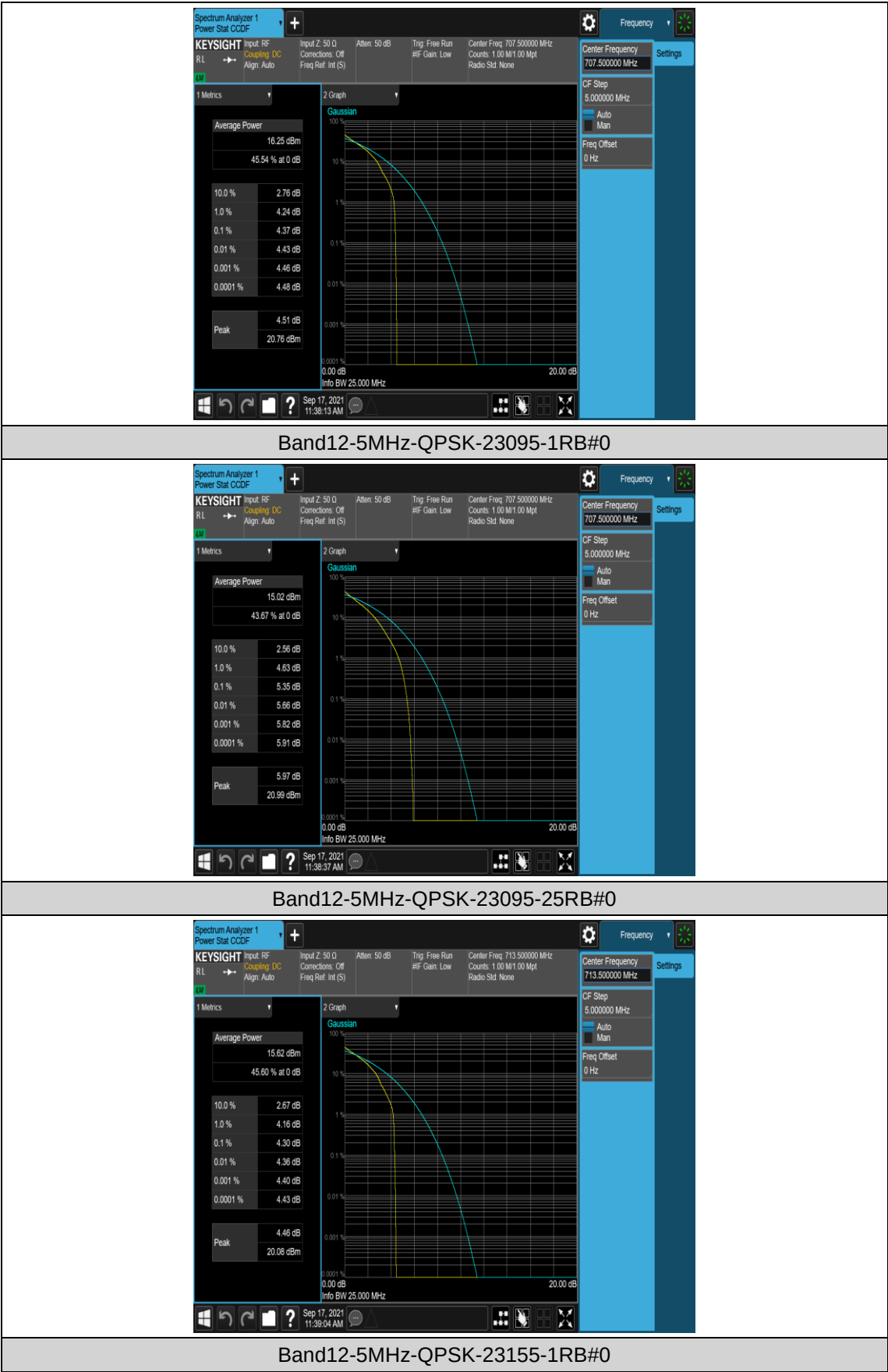


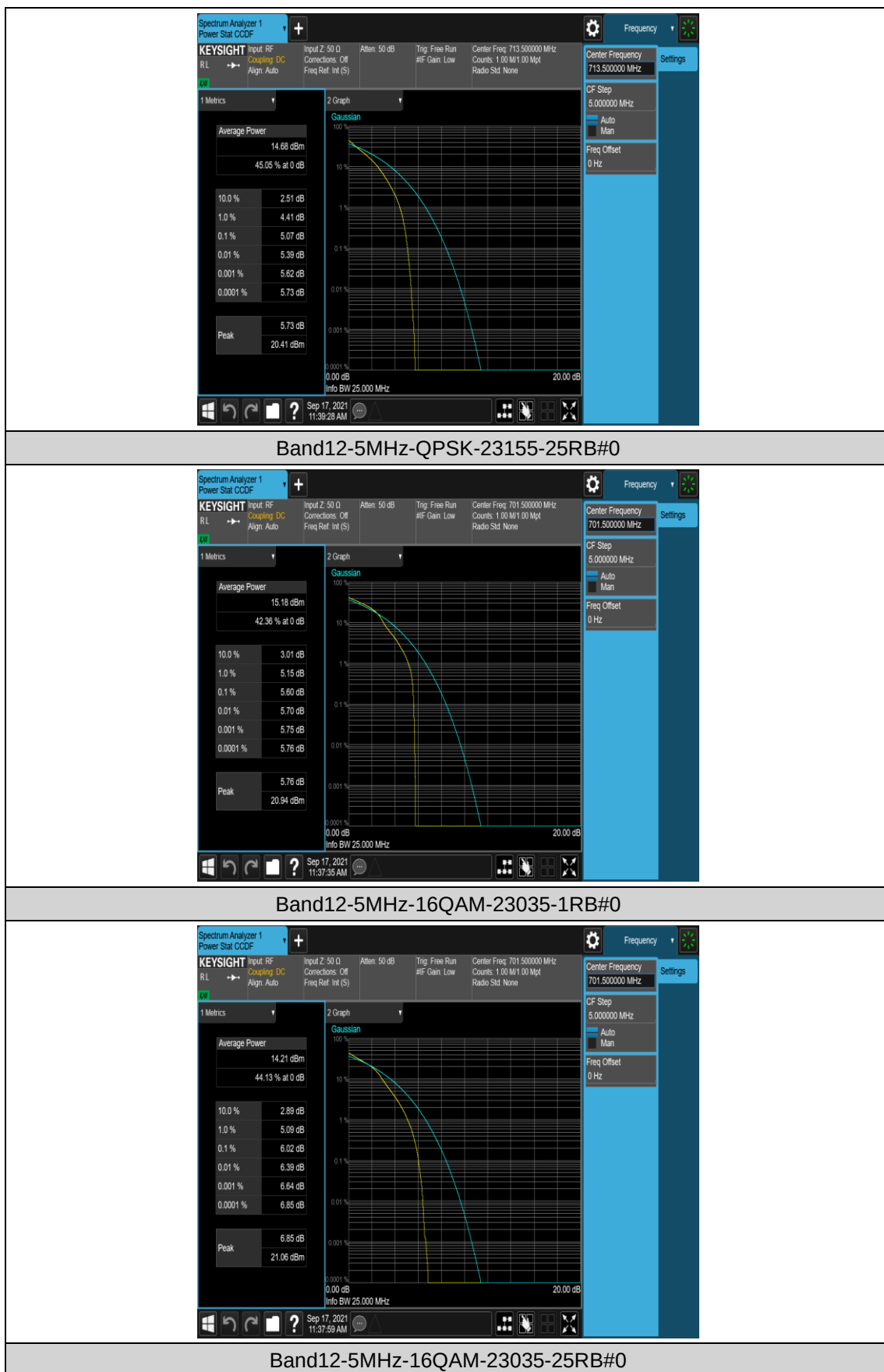


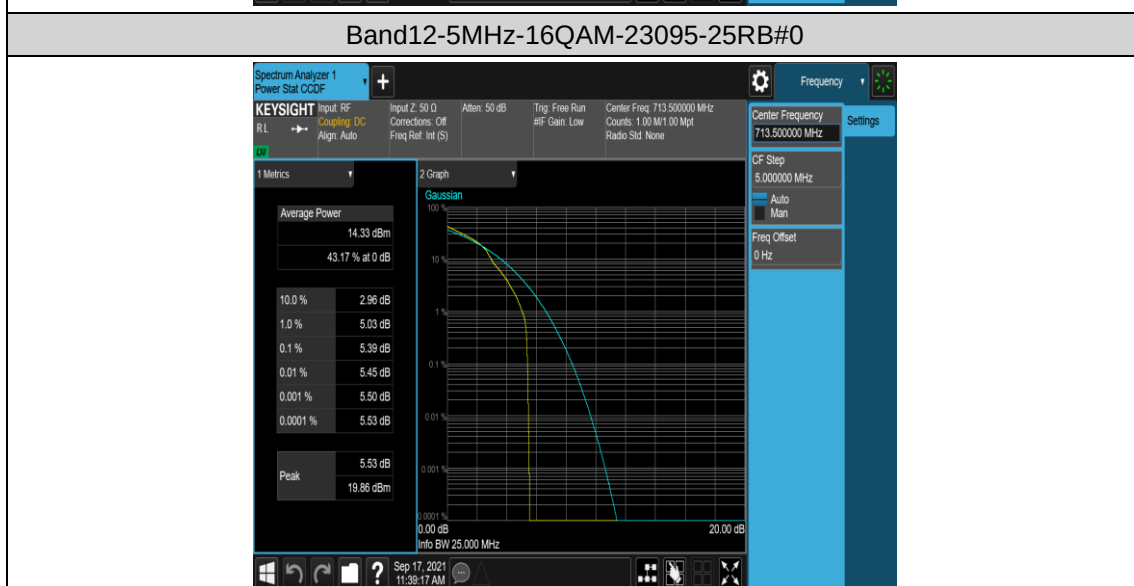
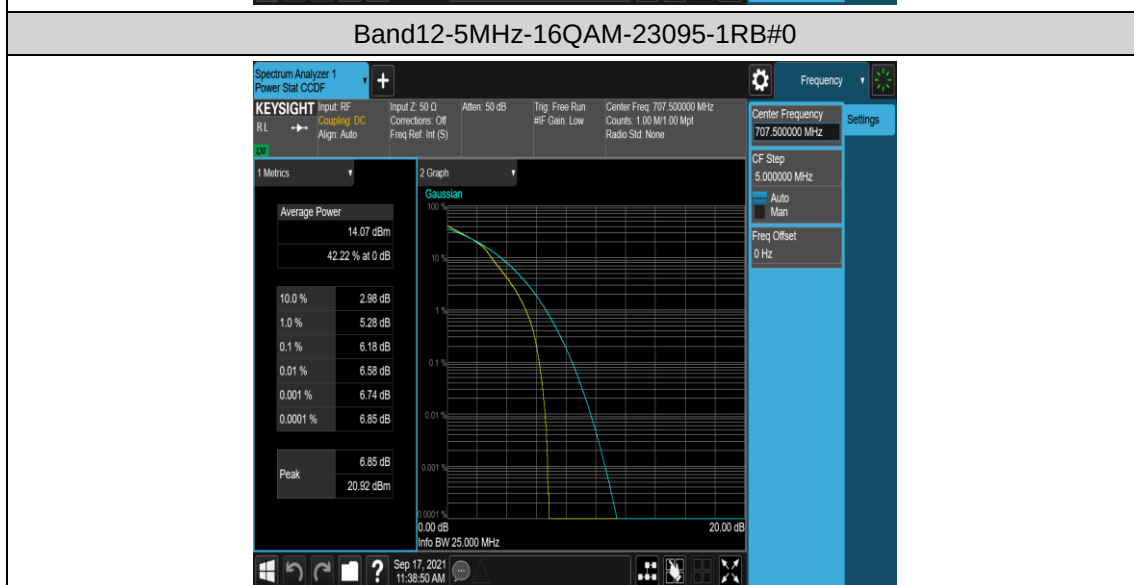
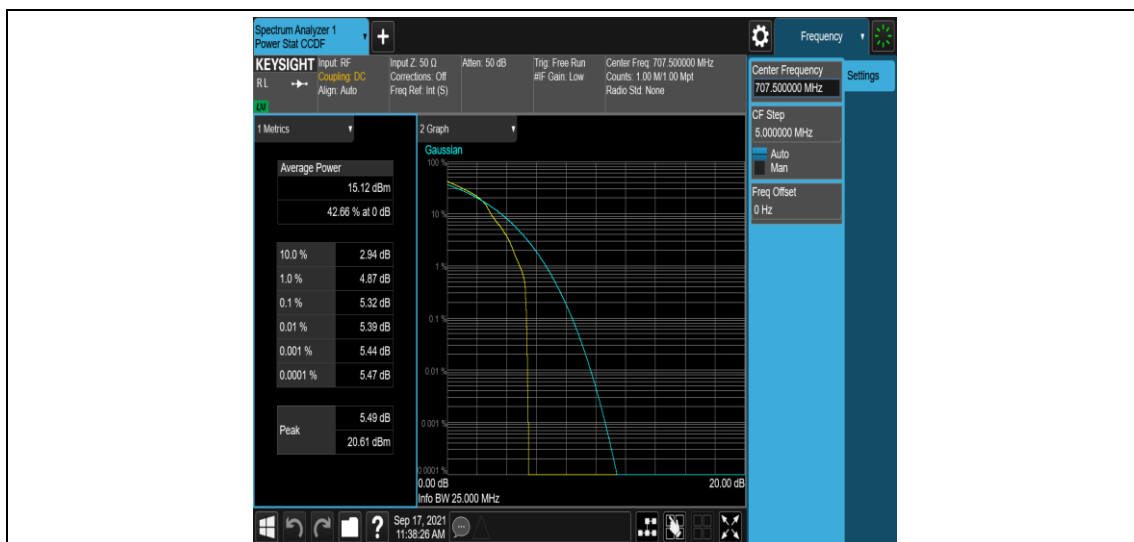


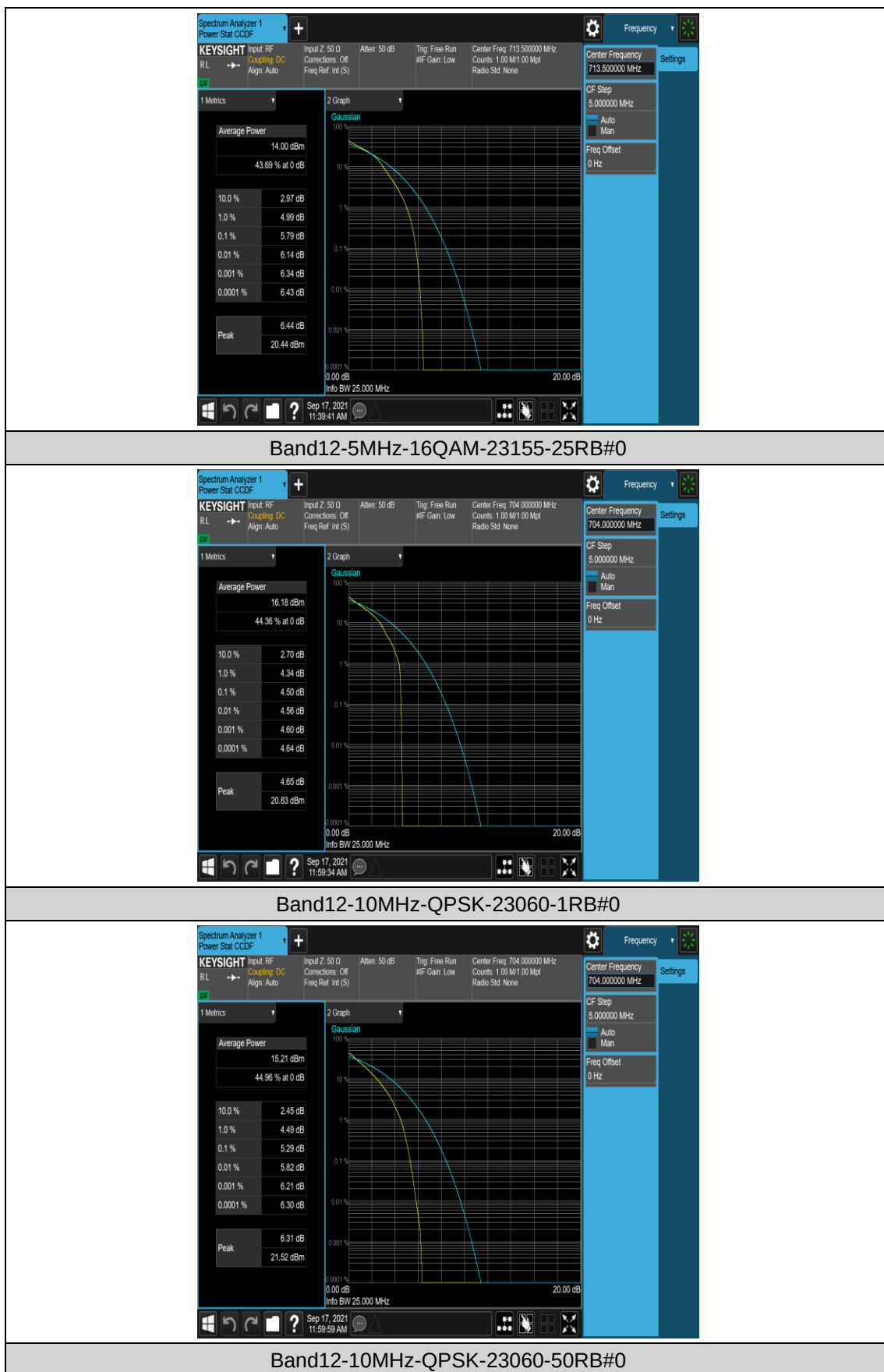


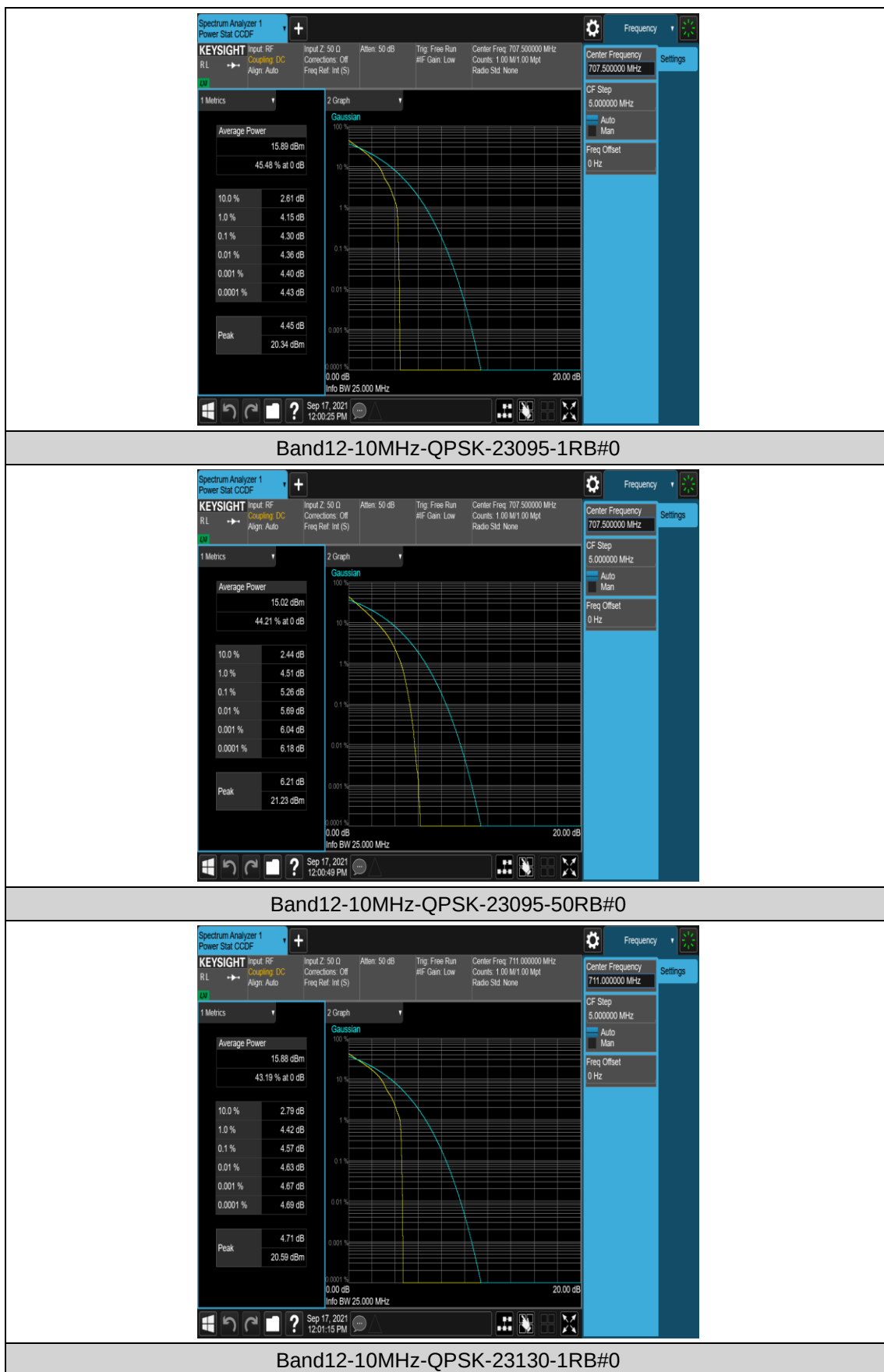


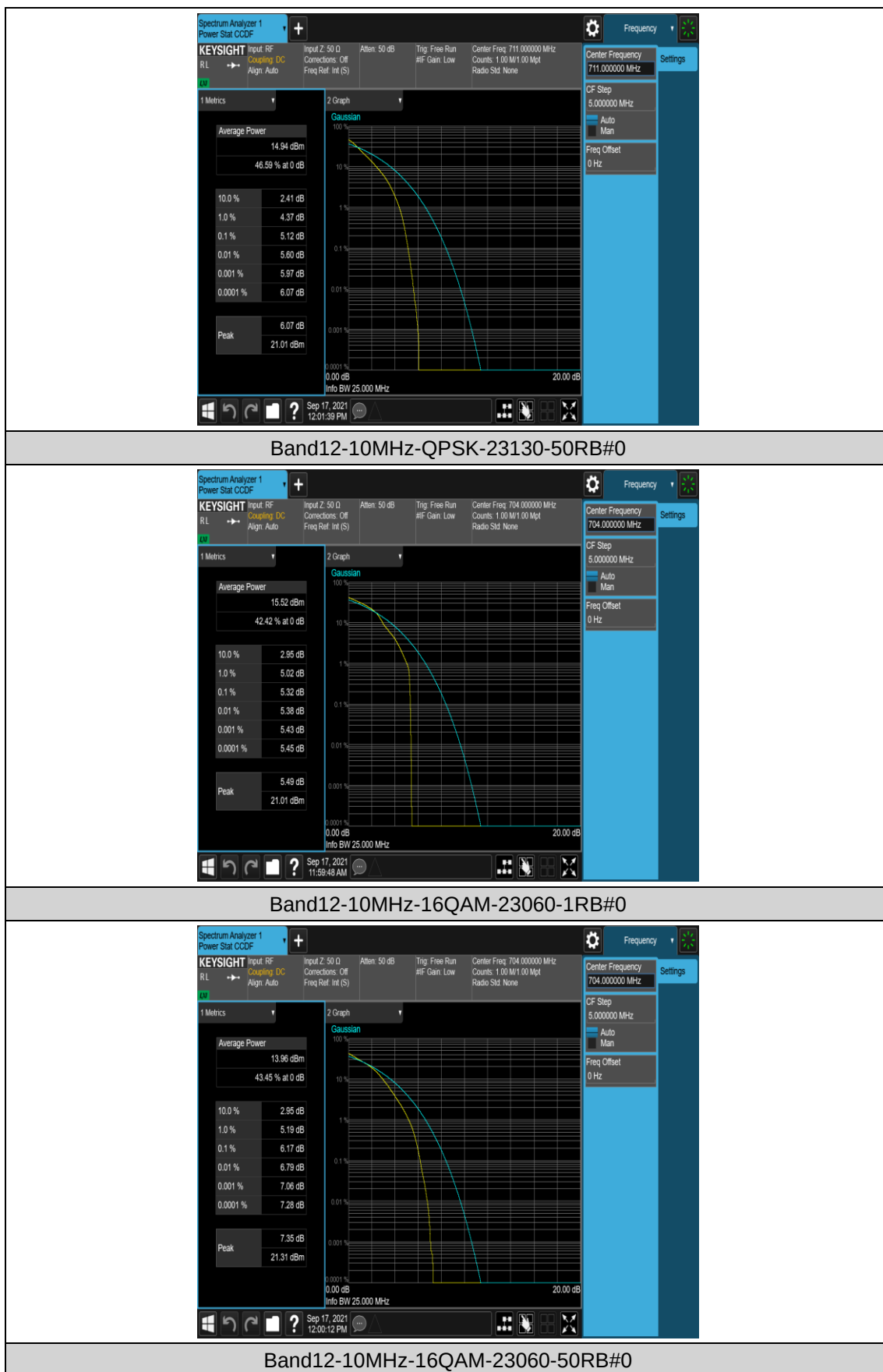


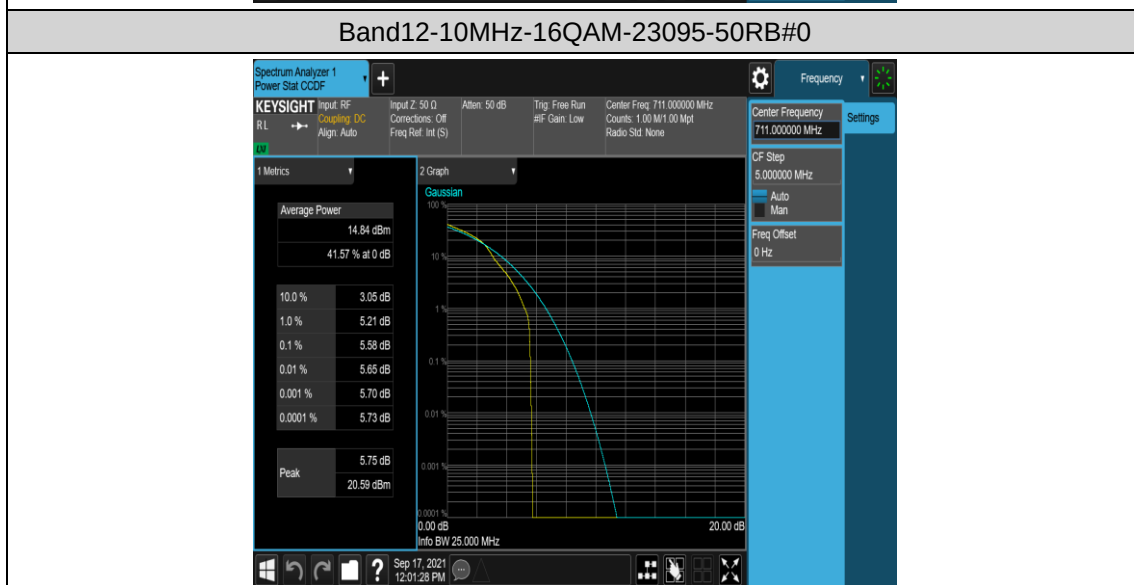
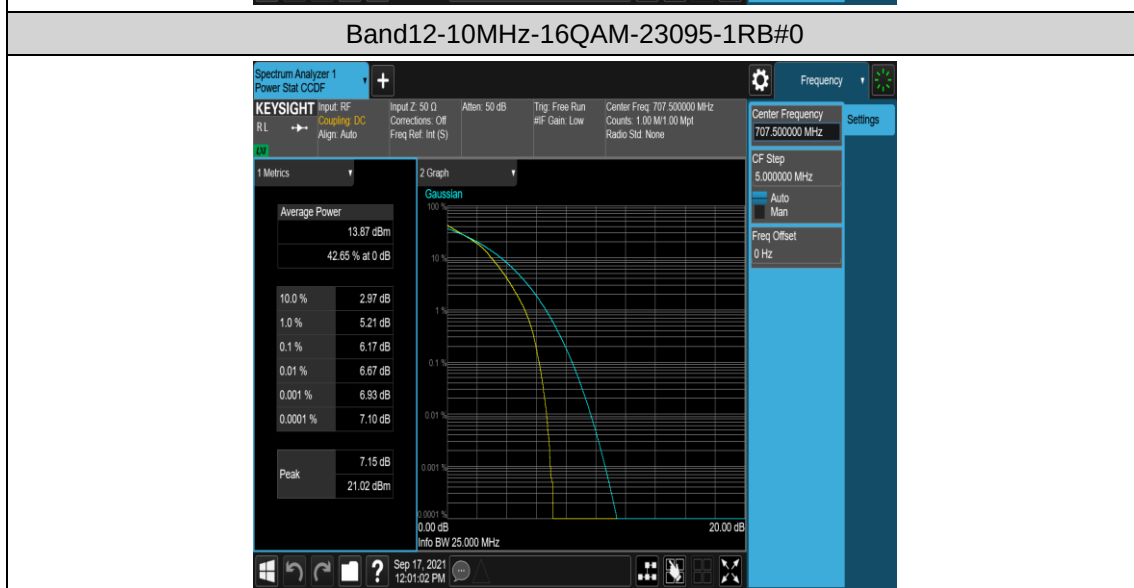


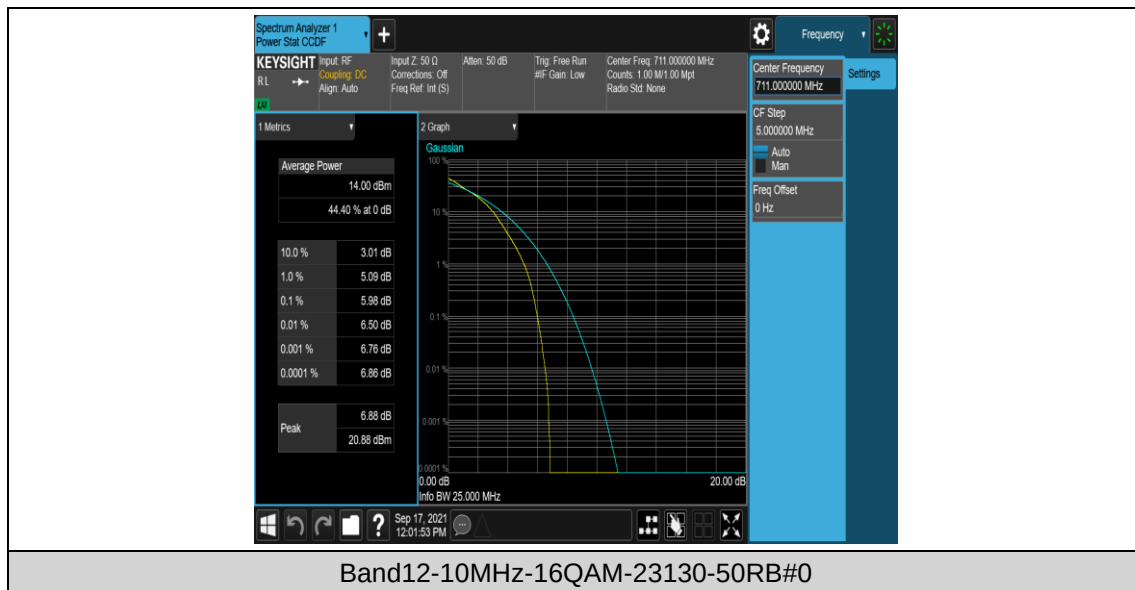












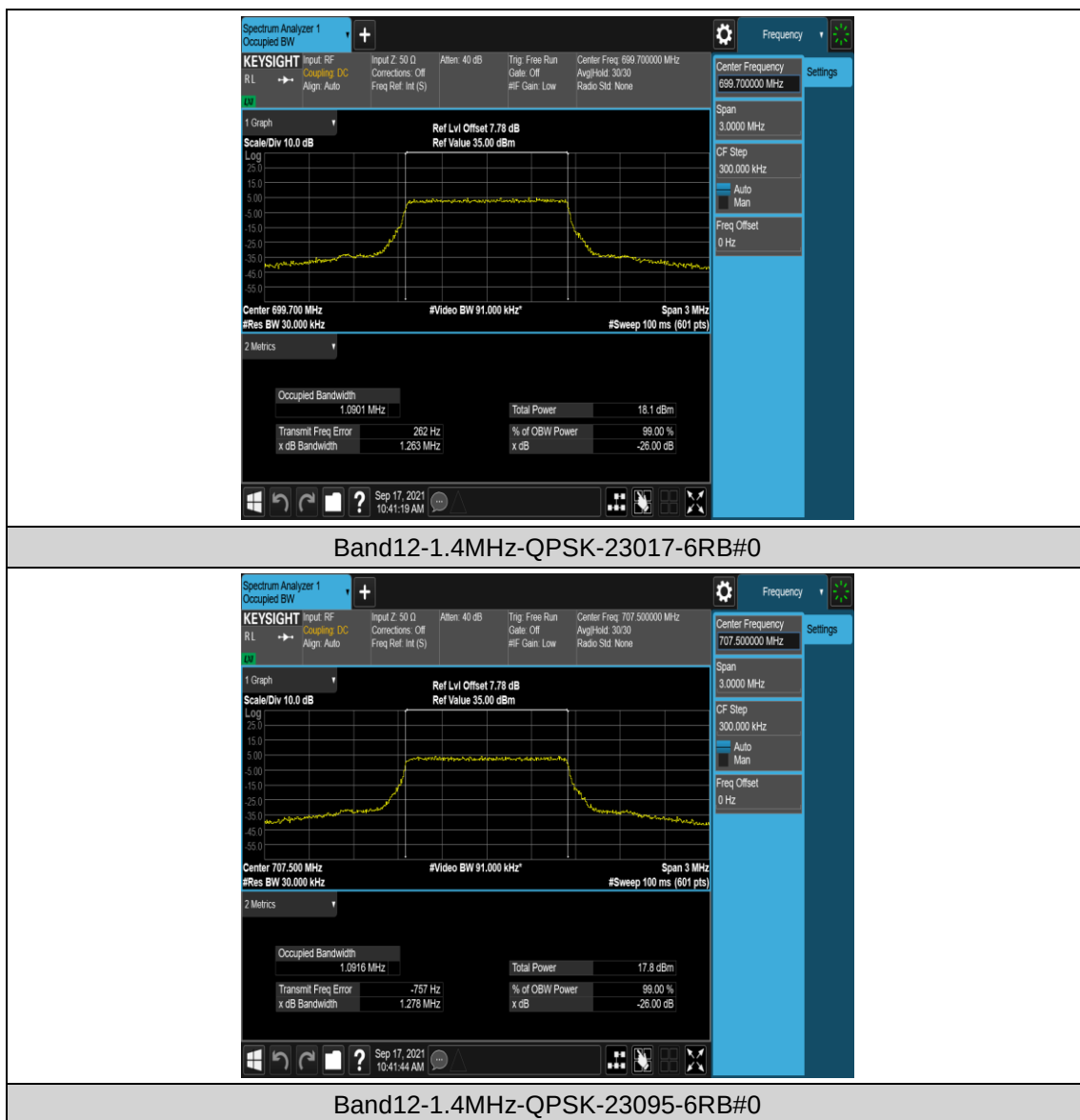
Band12-10MHz-16QAM-23130-50RB#0

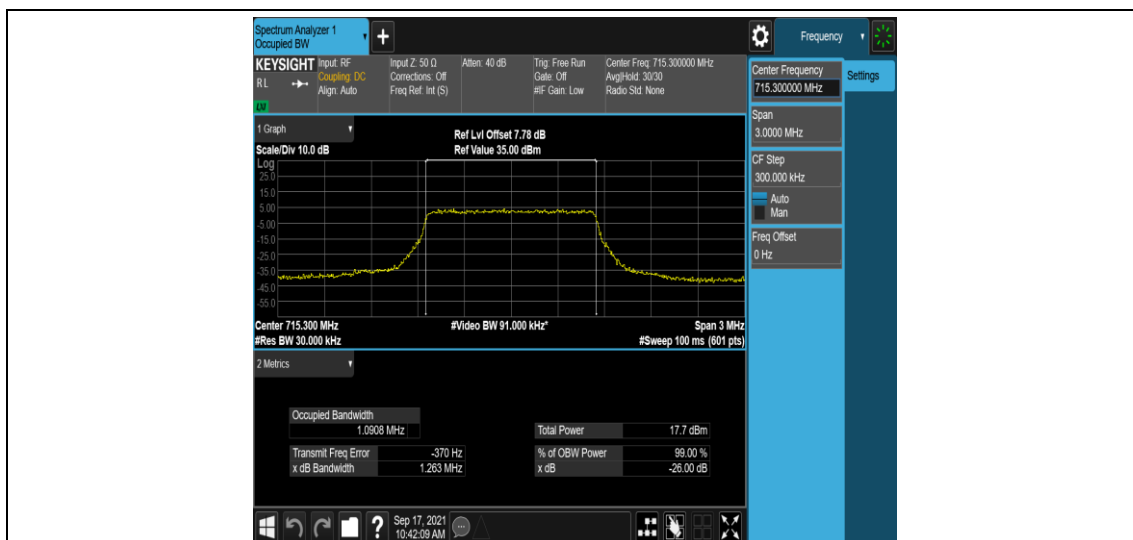
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

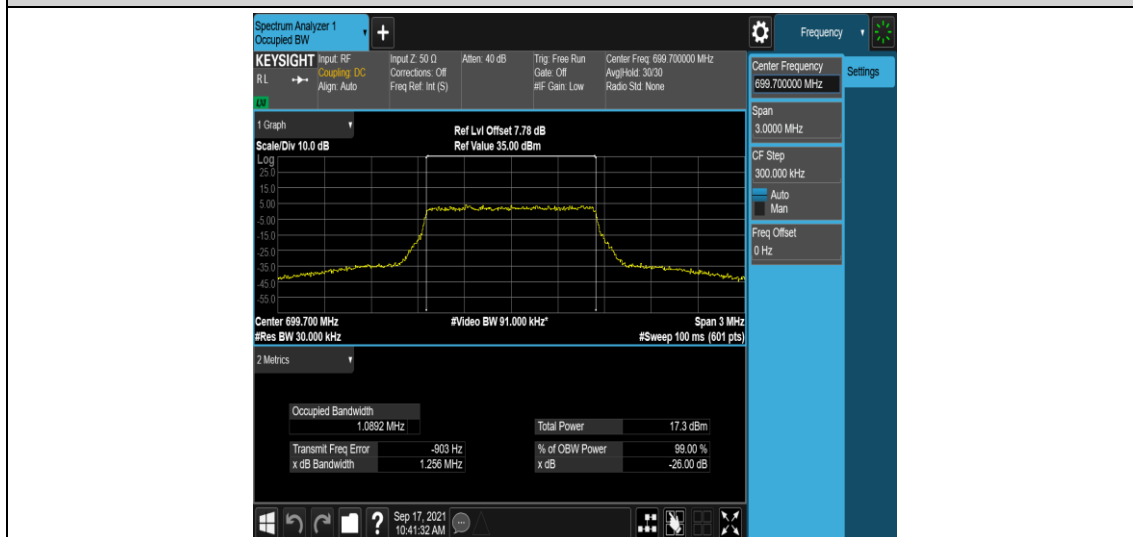
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0901	1.263	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0916	1.278	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0908	1.263	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0892	1.256	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0917	1.269	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0910	1.264	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6952	2.905	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6935	2.921	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6967	2.931	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6956	2.909	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6963	2.927	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7019	2.935	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.4914	4.881	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5072	4.908	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5026	4.906	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4931	4.843	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5063	4.912	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5054	4.871	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9627	9.547	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9940	9.576	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9546	9.556	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9490	9.544	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9839	9.561	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9419	9.501	PASS

Test Graphs

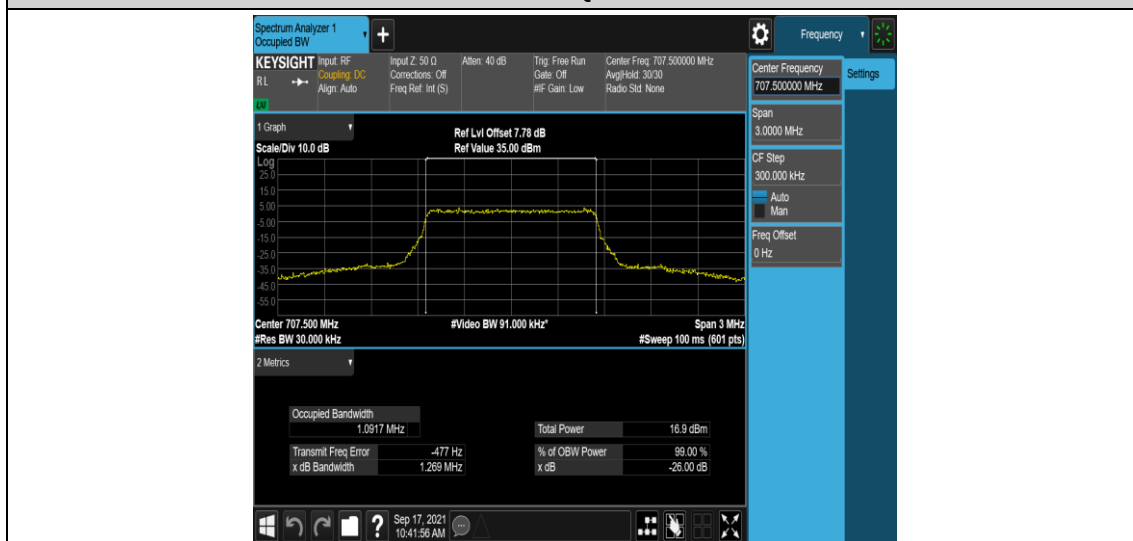




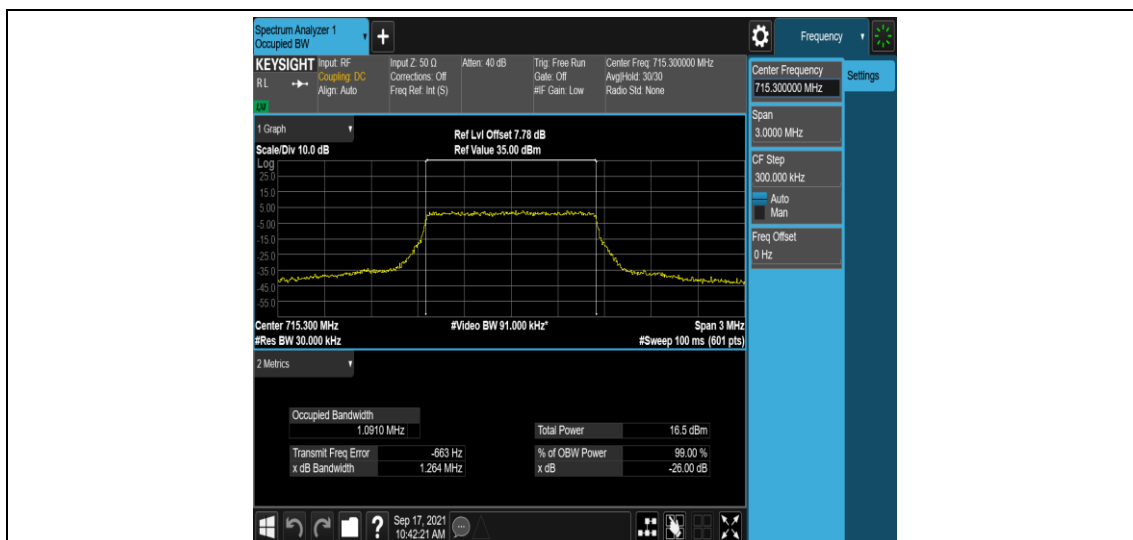
Band12-1.4MHz-QPSK-23173-6RB#0



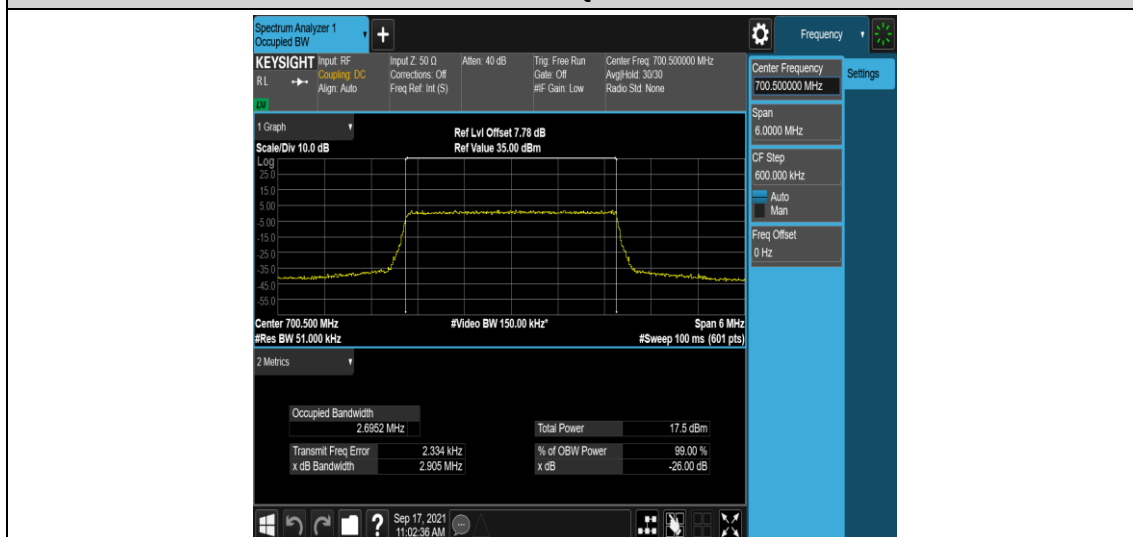
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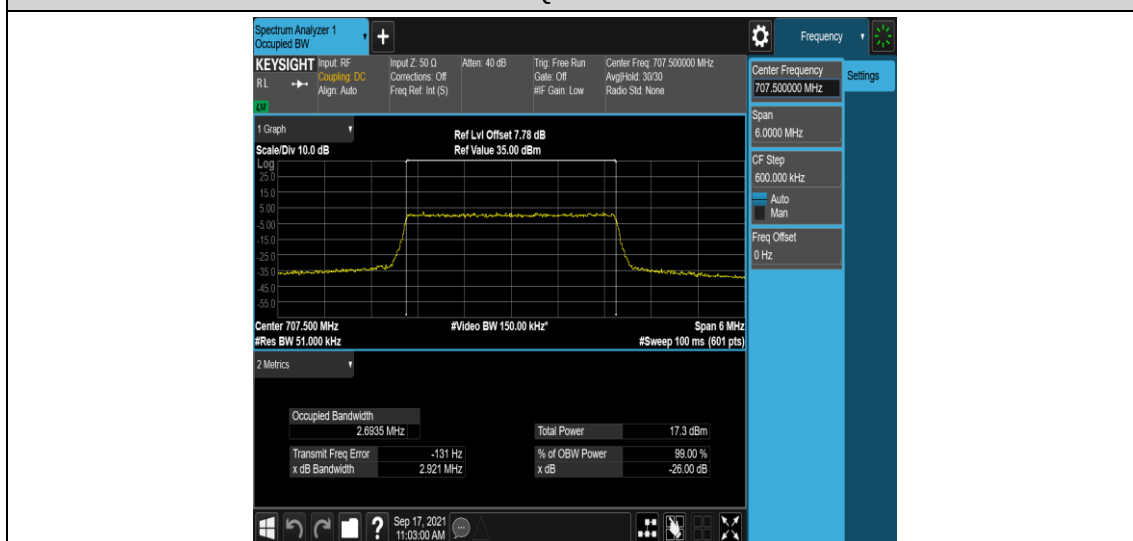
Band12-1.4MHz-16QAM-23095-6RB#0



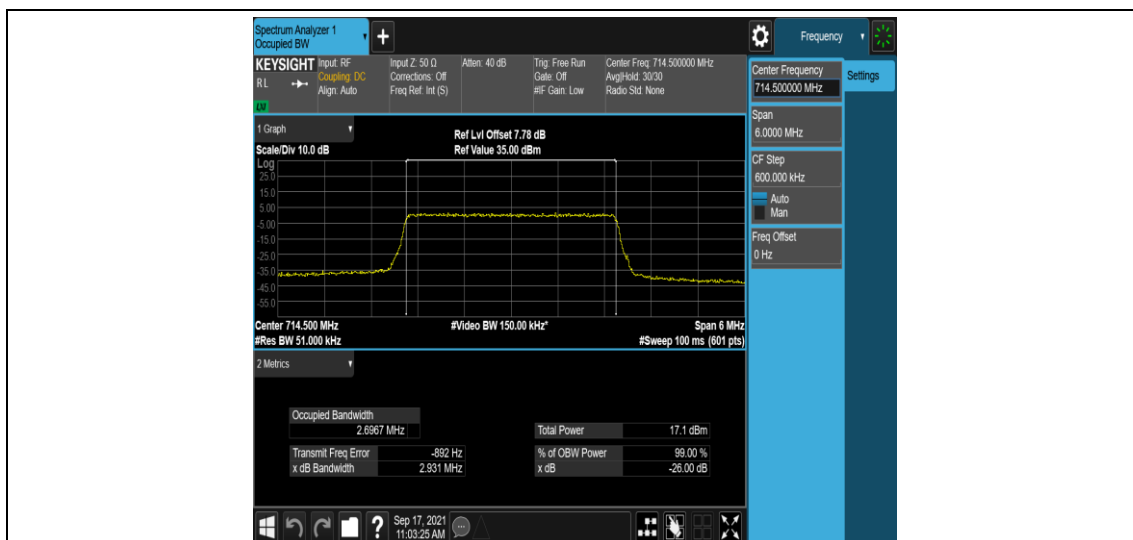
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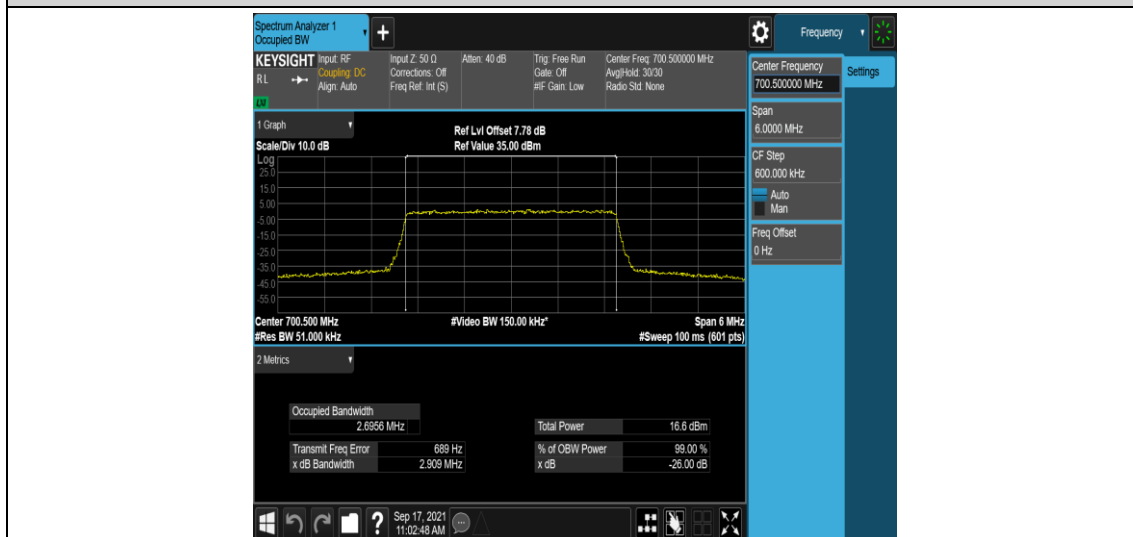
Band12-3MHz-QPSK-23025-15RB#0



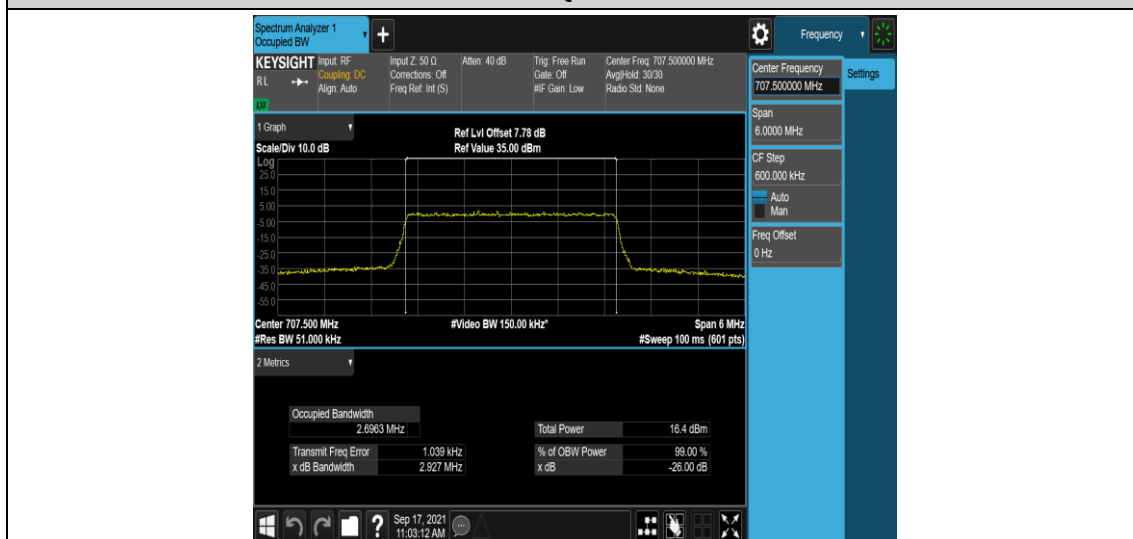
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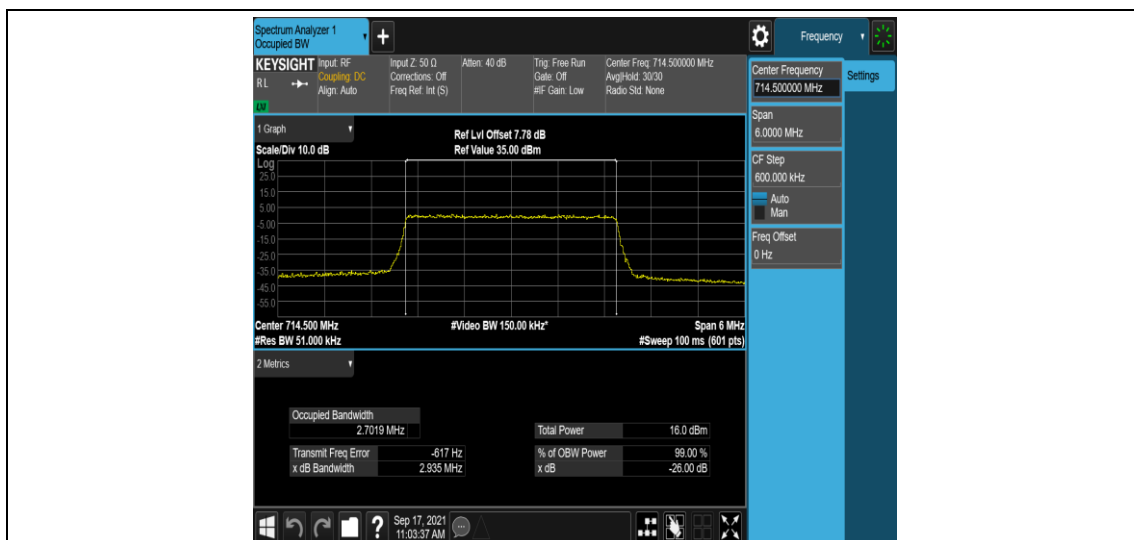
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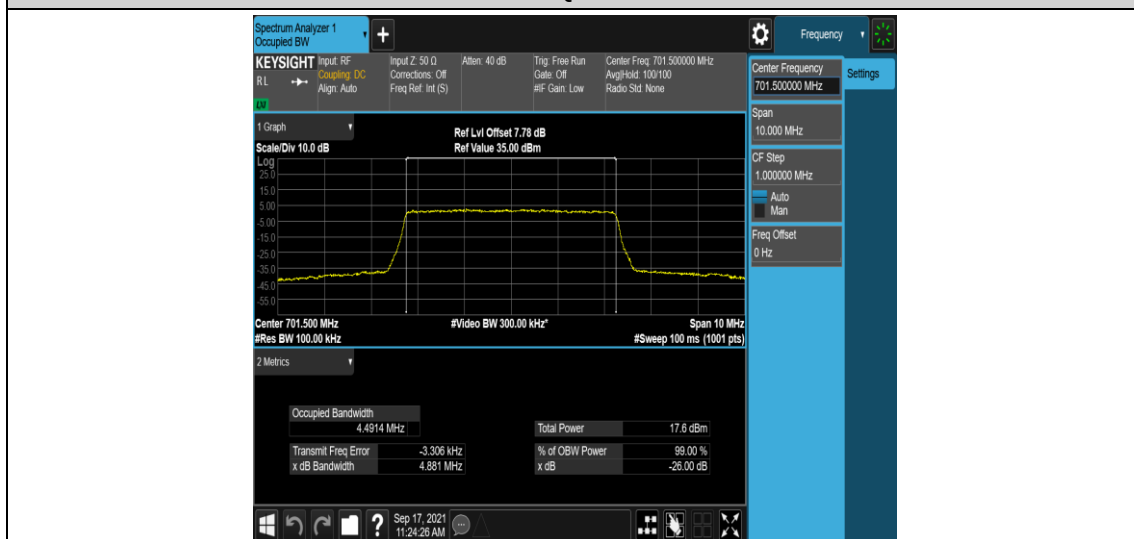
Band12-3MHz-16QAM-23025-15RB#0



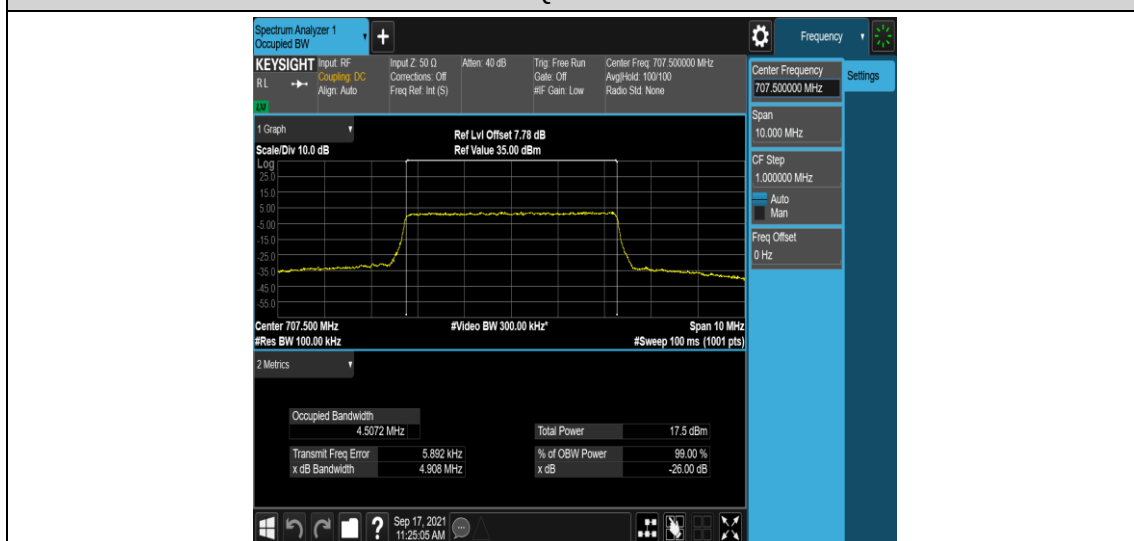
Band12-3MHz-16QAM-23095-15RB#0



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



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



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