

Appendix for Band 13

Product Name: 4G Smart Router

Model No: GL-MiFiC4-EXT

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.19	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.04	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.36	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.04	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.04	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.02	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.07	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.12	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.01	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.95	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.02	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.02	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.06	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.04	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.08	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.01	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.06	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.05	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.05	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.97	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.10	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.00	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.78	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.92	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.10	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.11	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.04	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.98	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.08	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.96	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.98	PASS

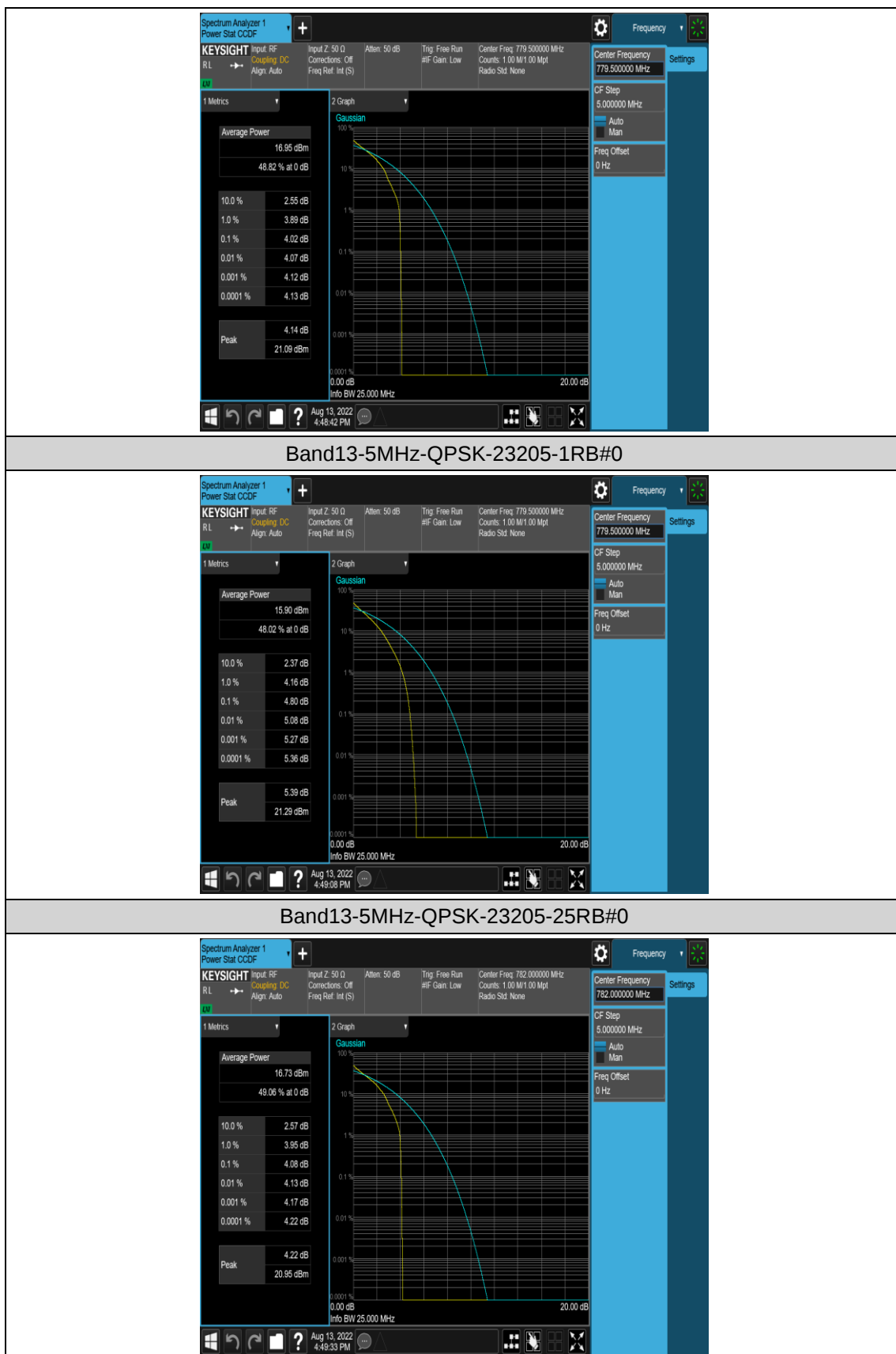
Band13	5MHz	16QAM	23230	12RB#0	21.95	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.15	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.10	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.01	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.94	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.70	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.99	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.94	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.13	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.07	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.12	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.95	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.92	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.90	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.09	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.09	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.01	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.10	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.97	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.14	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.03	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.05	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.96	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.07	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.07	PASS

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

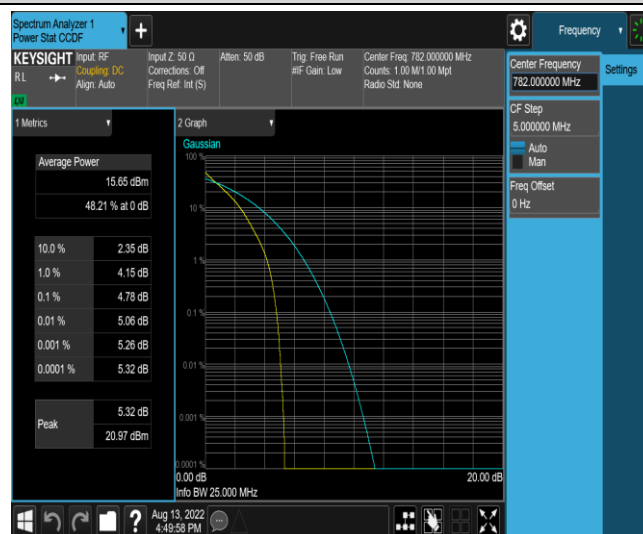
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.02	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.80	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.08	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.78	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.99	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.71	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.92	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.65	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.84	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.59	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.87	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.54	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.06	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.77	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.99	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.59	13	PASS

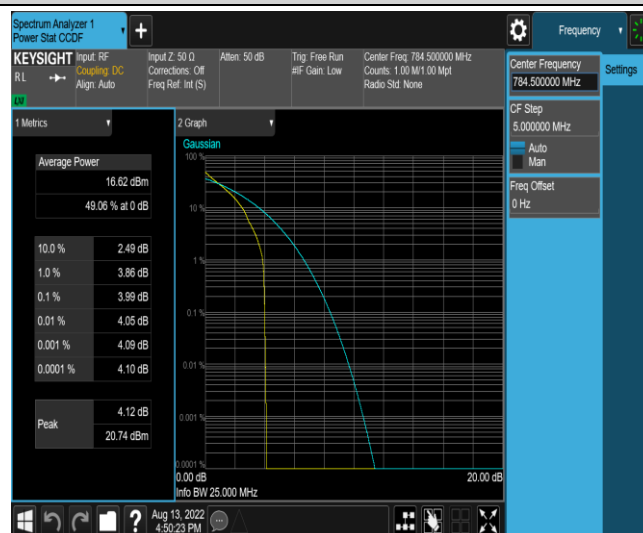
Test Graphs



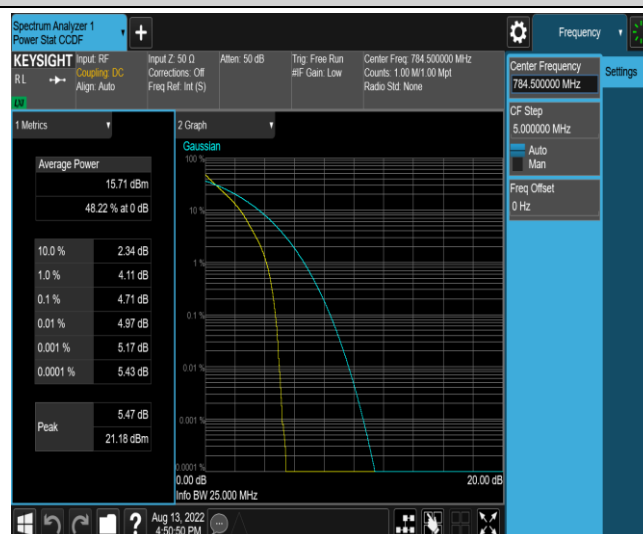
Band13-5MHz-QPSK-23230-1RB#0



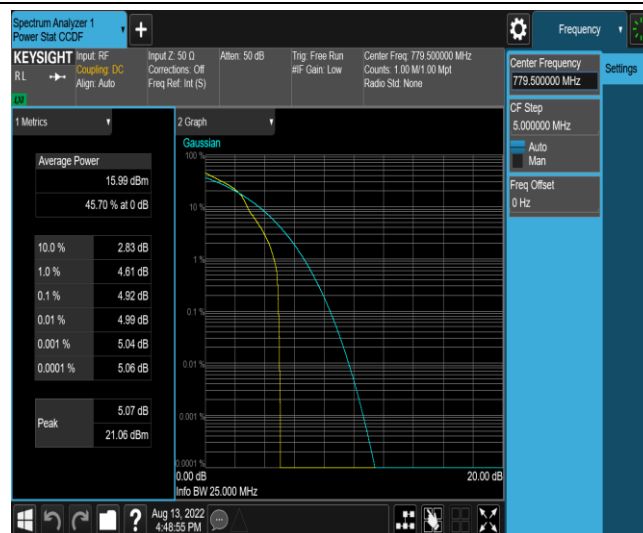
Band13-5MHz-QPSK-23230-25RB#0



Band13-5MHz-QPSK-23255-1RB#0



Band13-5MHz-QPSK-23255-25RB#0



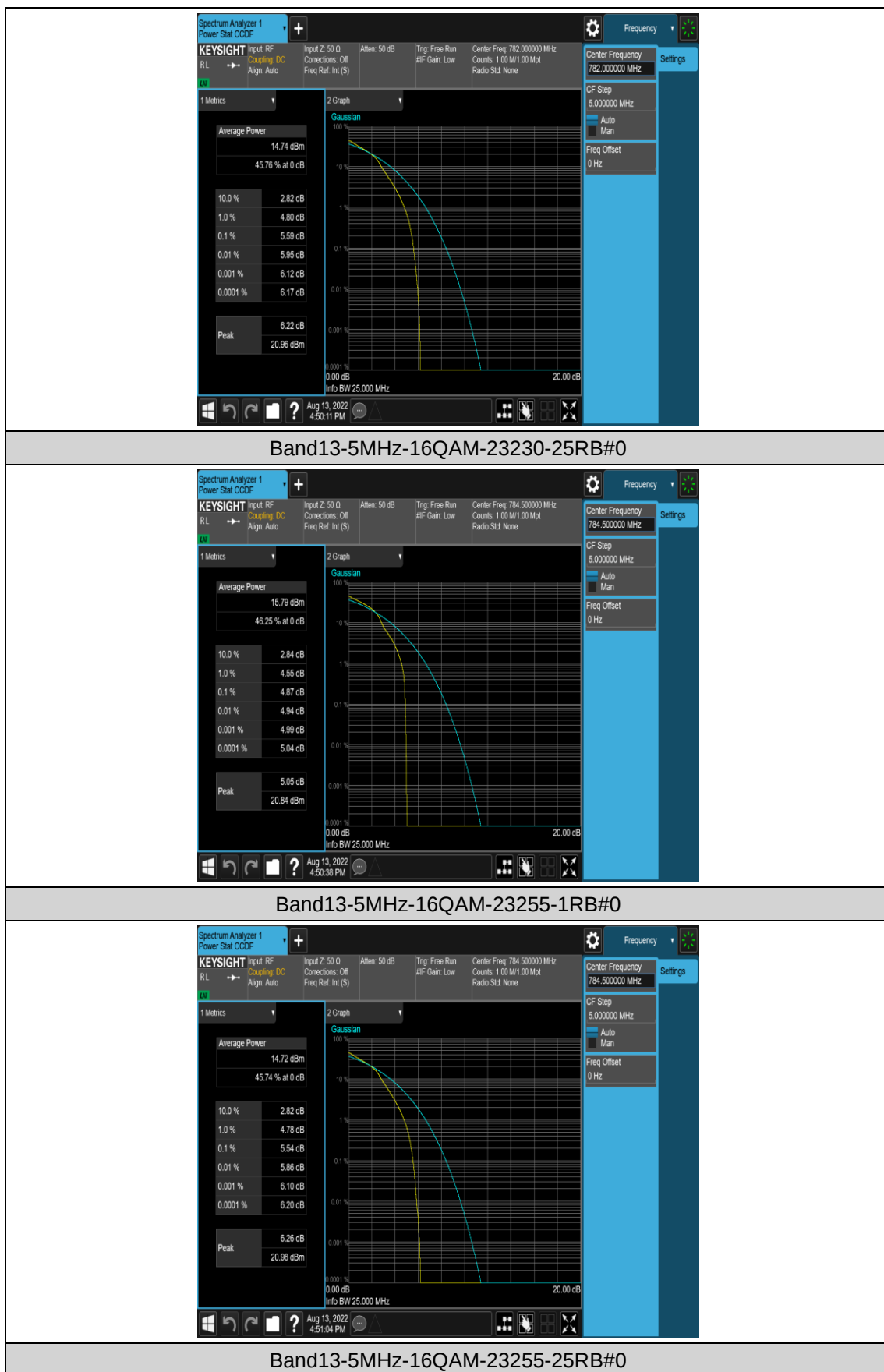
Band13-5MHz-16QAM-23205-1RB#0

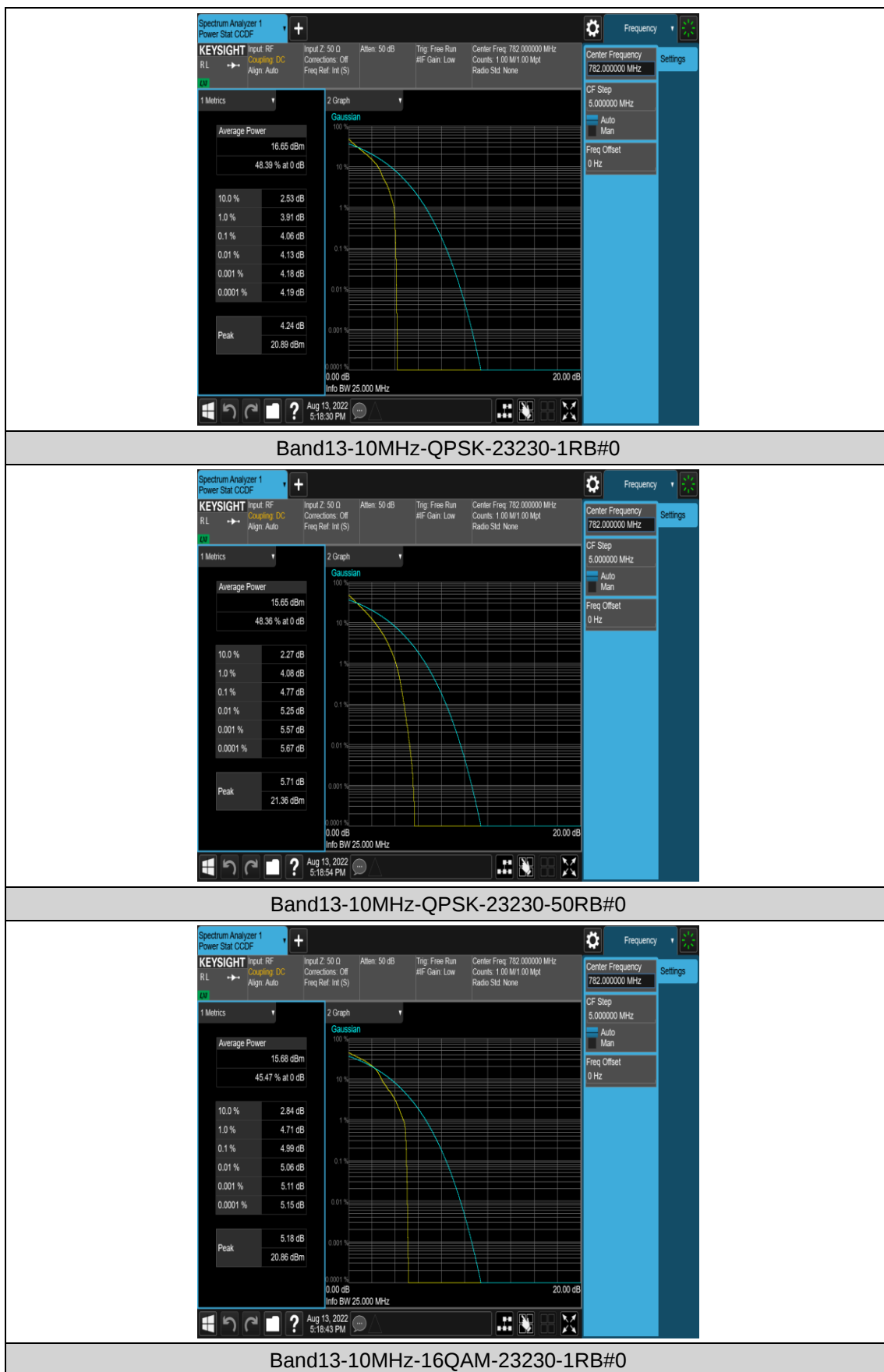


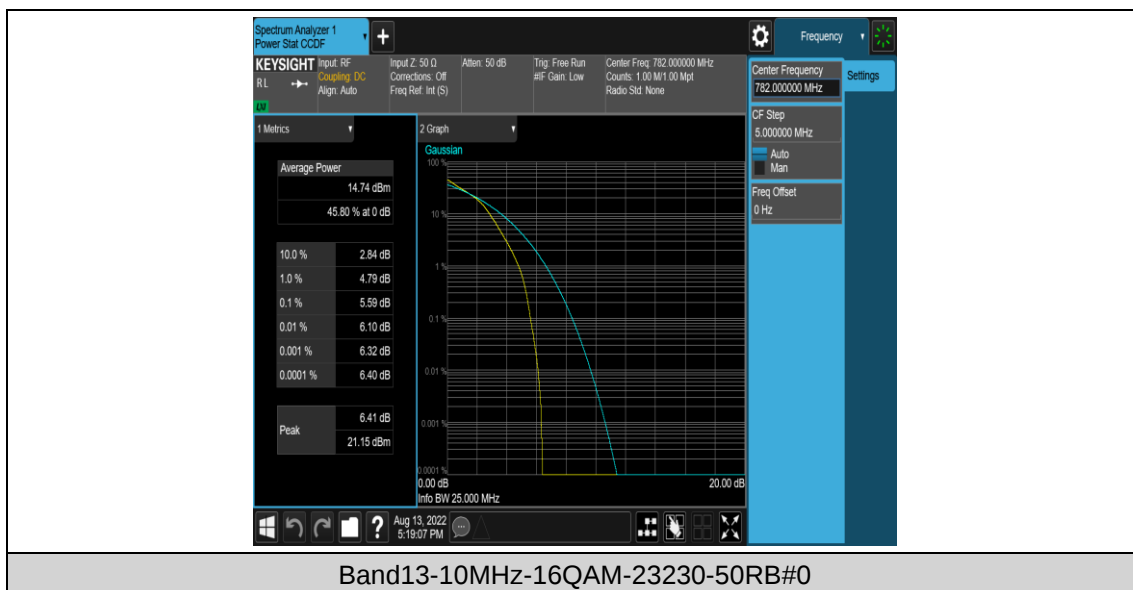
Band13-5MHz-16QAM-23205-25RB#0



Band13-5MHz-16QAM-23230-1RB#0





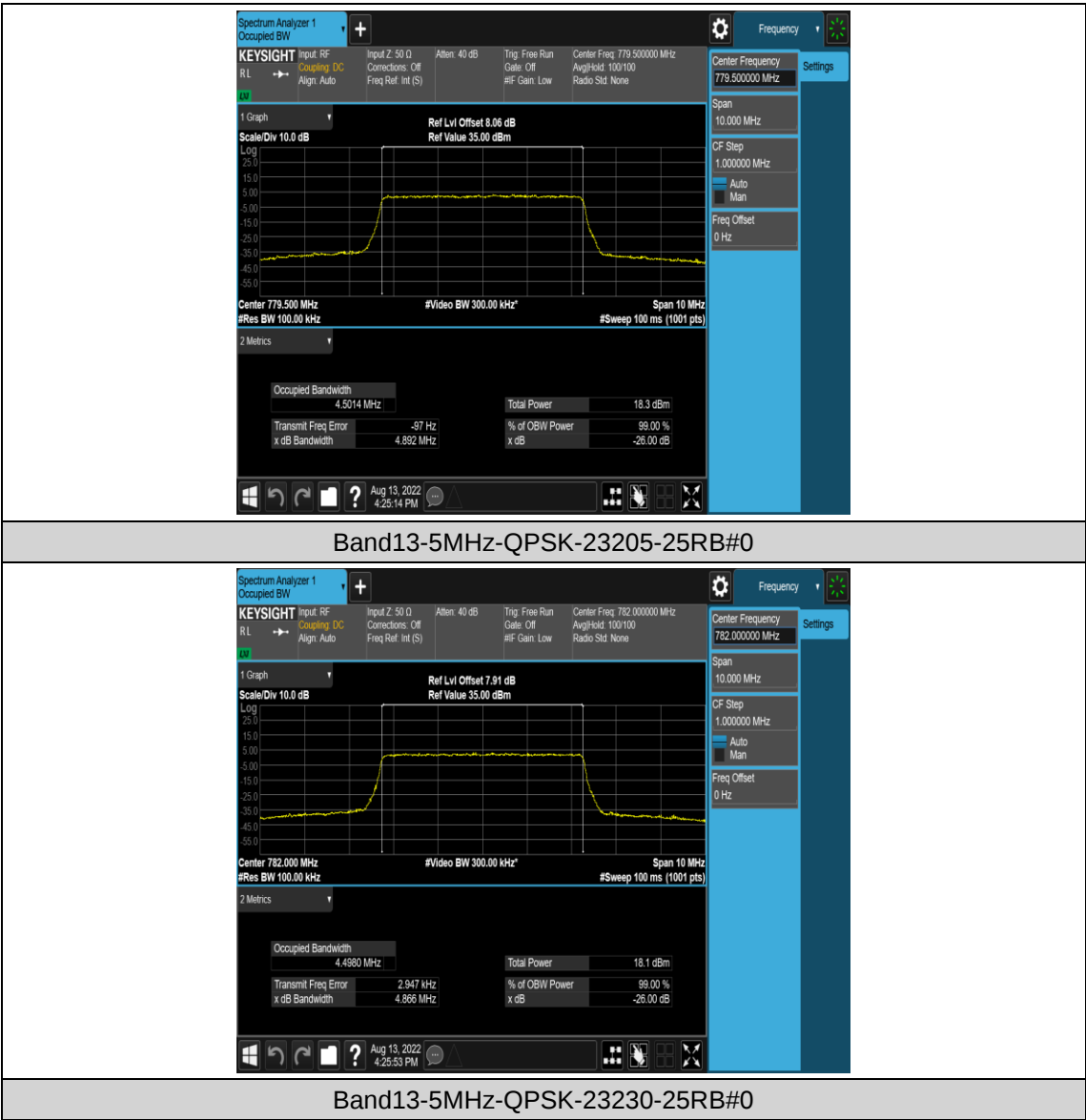


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5014	4.892	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4980	4.866	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5015	4.853	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5038	4.868	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4969	4.885	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5072	4.879	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9601	9.547	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9412	9.512	PASS

Test Graphs





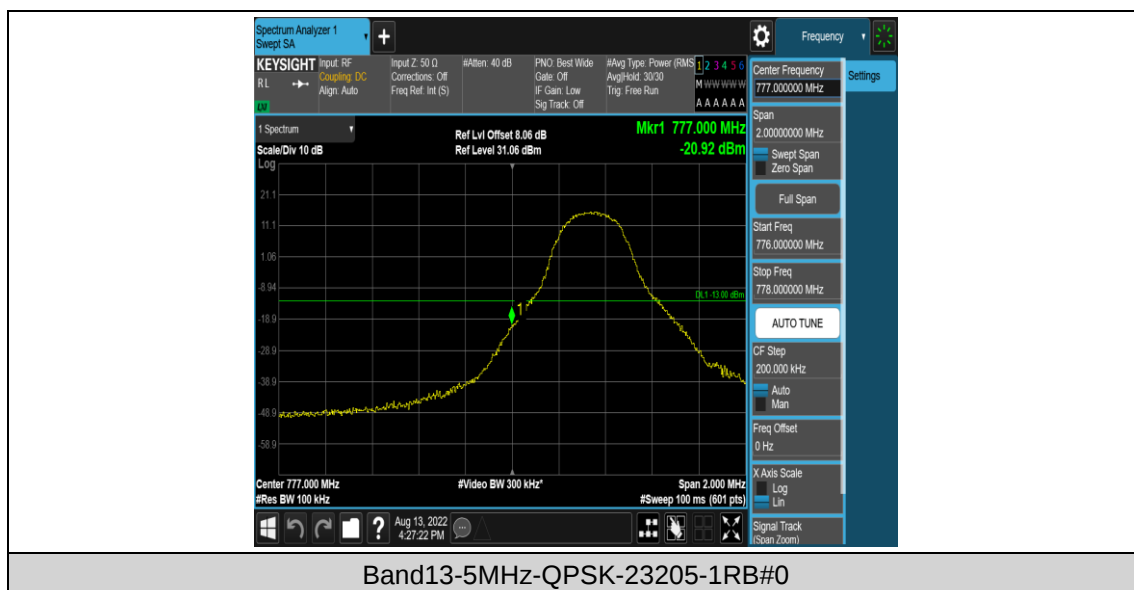


Appendix D: Band Edge

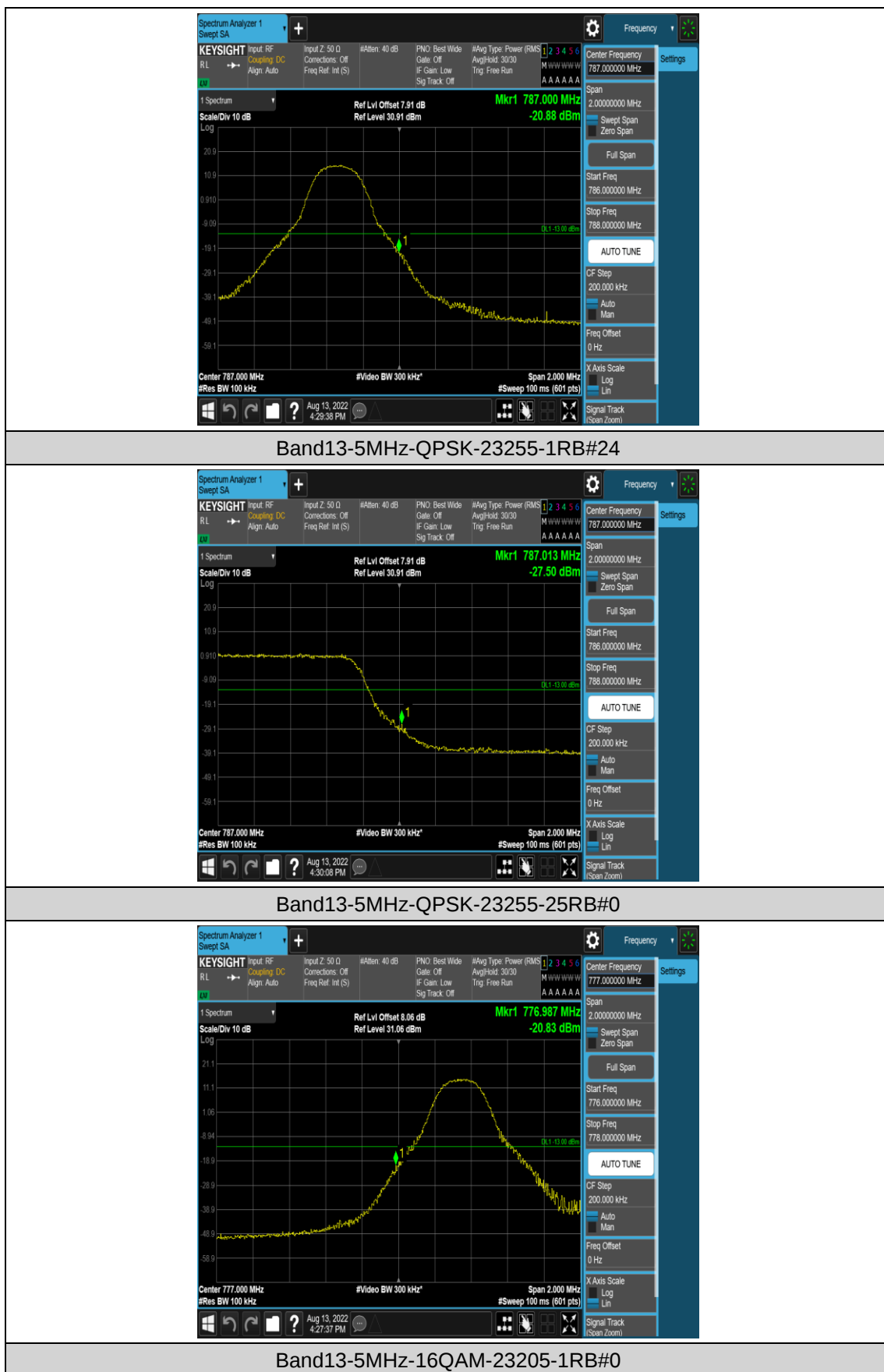
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-20.92	PASS
Band13	5MHz	QPSK	23205	1RB#24	-53.13	PASS
Band13	5MHz	QPSK	23205	25RB#0	-26.61	PASS
Band13	5MHz	QPSK	23255	1RB#0	-53.35	PASS
Band13	5MHz	QPSK	23255	1RB#24	-20.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	-27.50	PASS
Band13	5MHz	16QAM	23205	1RB#0	-20.83	PASS
Band13	5MHz	16QAM	23205	1RB#24	-53.31	PASS
Band13	5MHz	16QAM	23205	25RB#0	-28.62	PASS
Band13	5MHz	16QAM	23255	1RB#0	-53.13	PASS
Band13	5MHz	16QAM	23255	1RB#24	-22.19	PASS
Band13	5MHz	16QAM	23255	25RB#0	-29.21	PASS

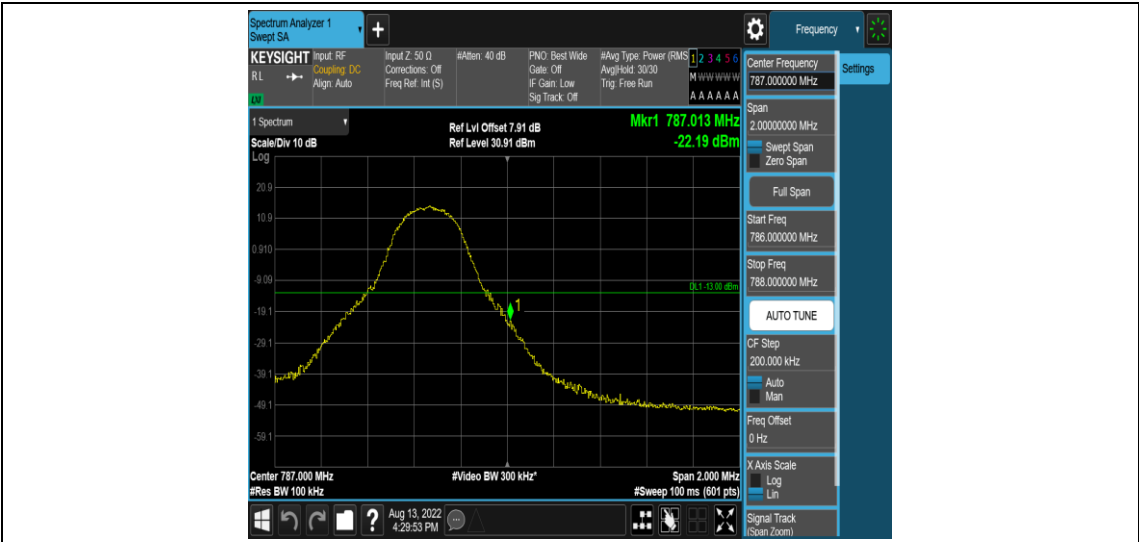
Test Graphs



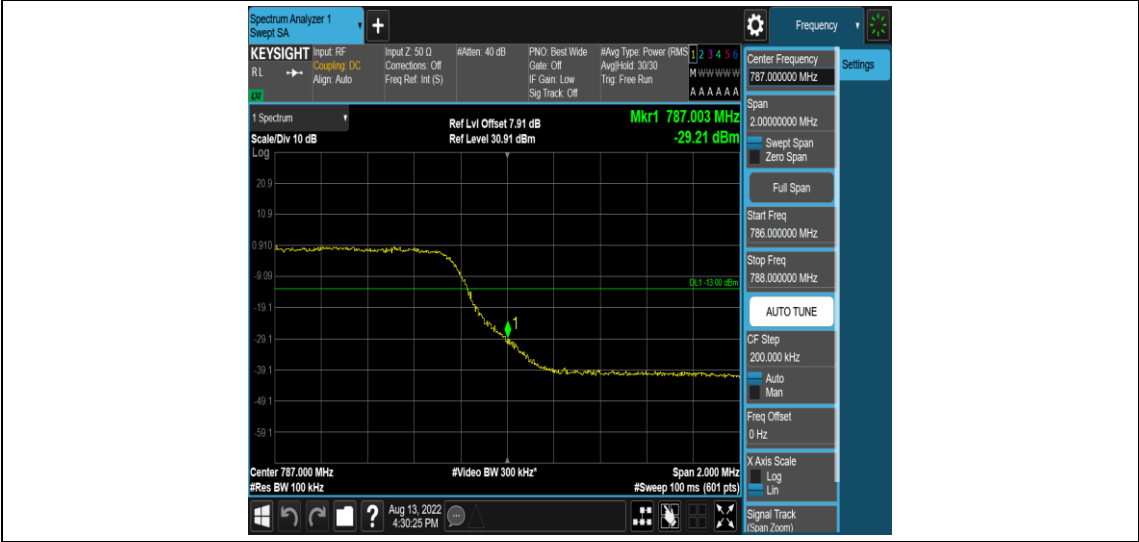








Band13-5MHz-16QAM-23255-1RB#24



Band13-5MHz-16QAM-23255-25RB#0

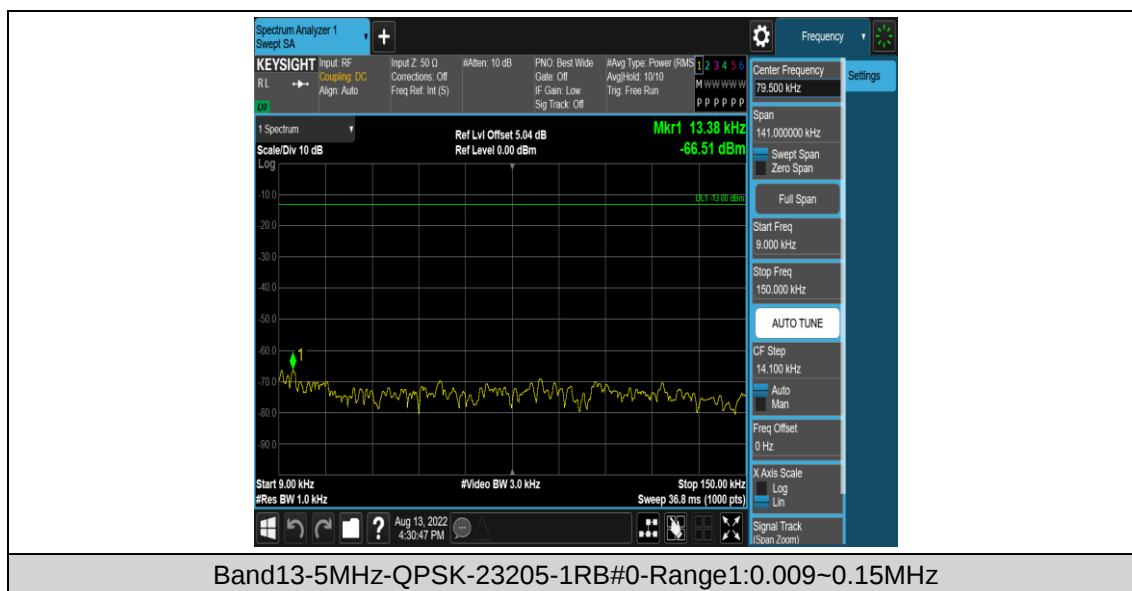
Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	PASS

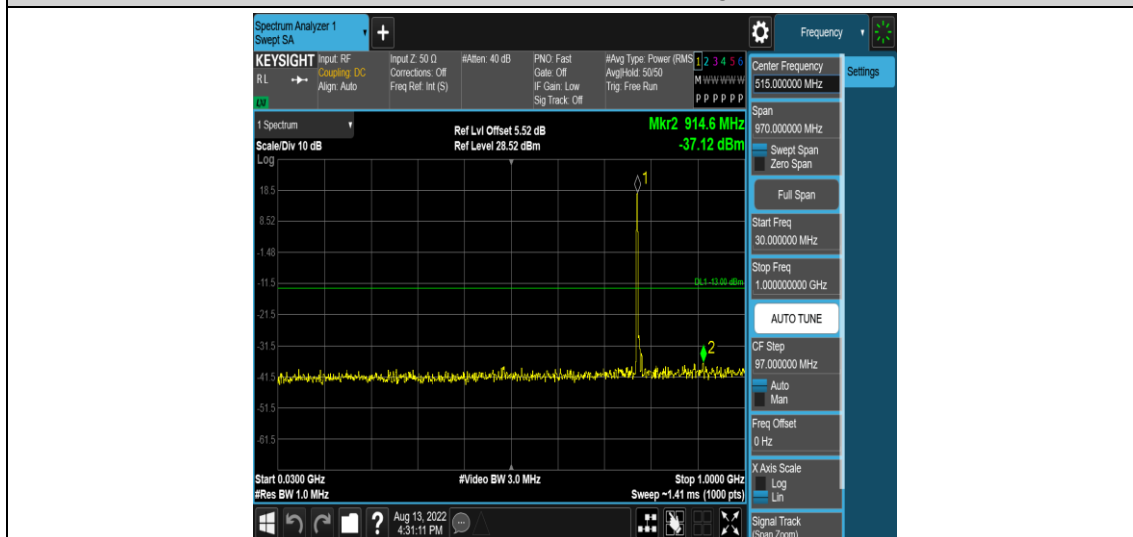
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	PASS

Test Graphs

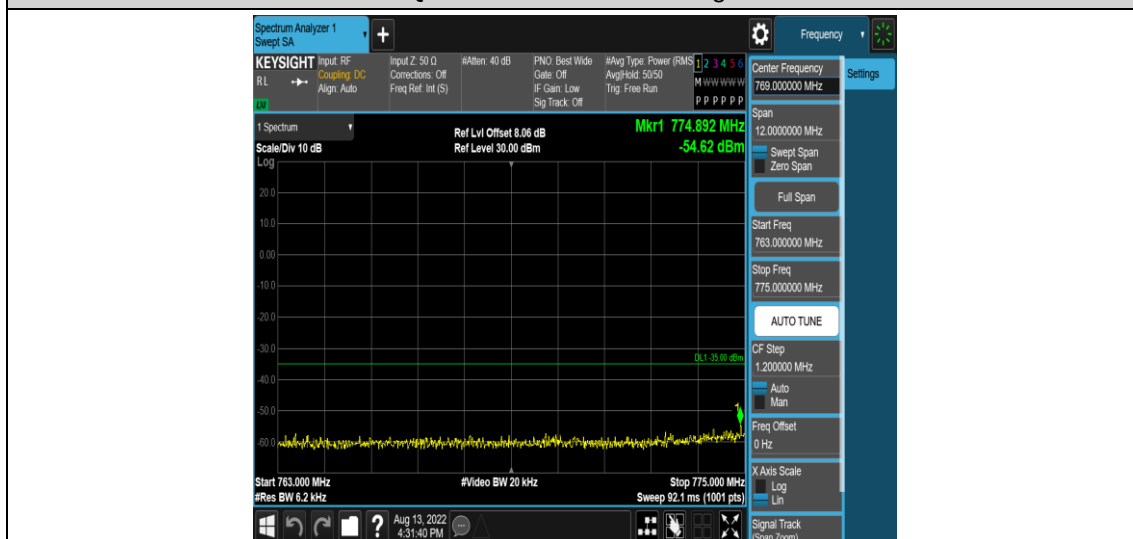




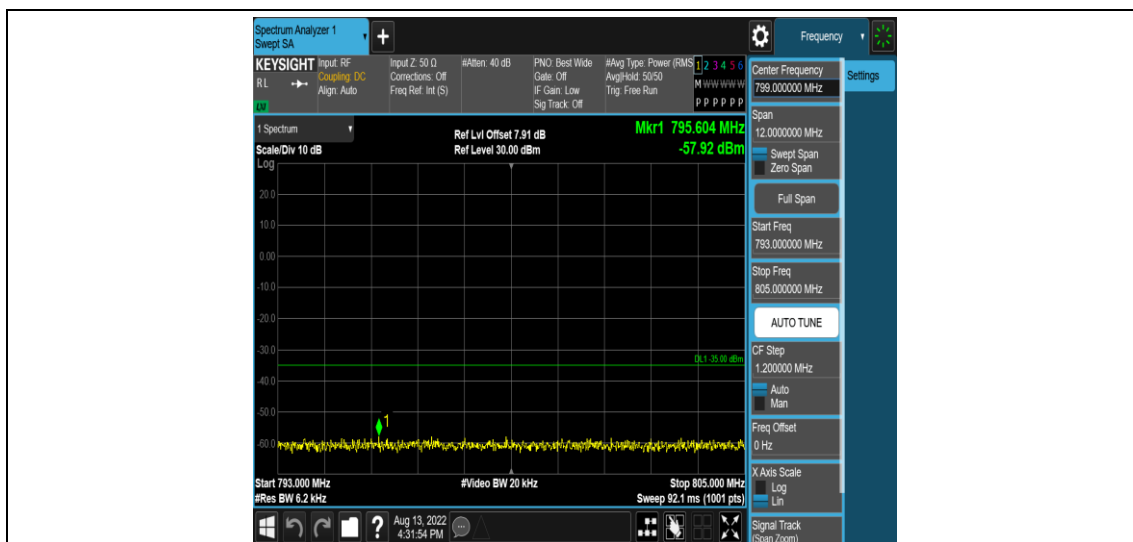
Band13-5MHz-QPSK-23205-1RB#0-Range2:0.15~30MHz



Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz



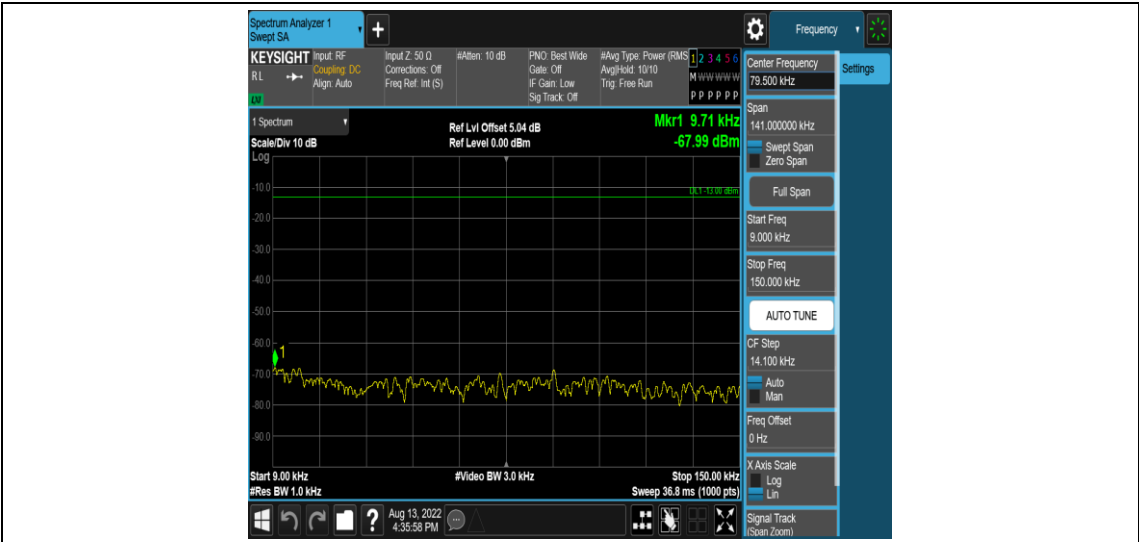
Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz



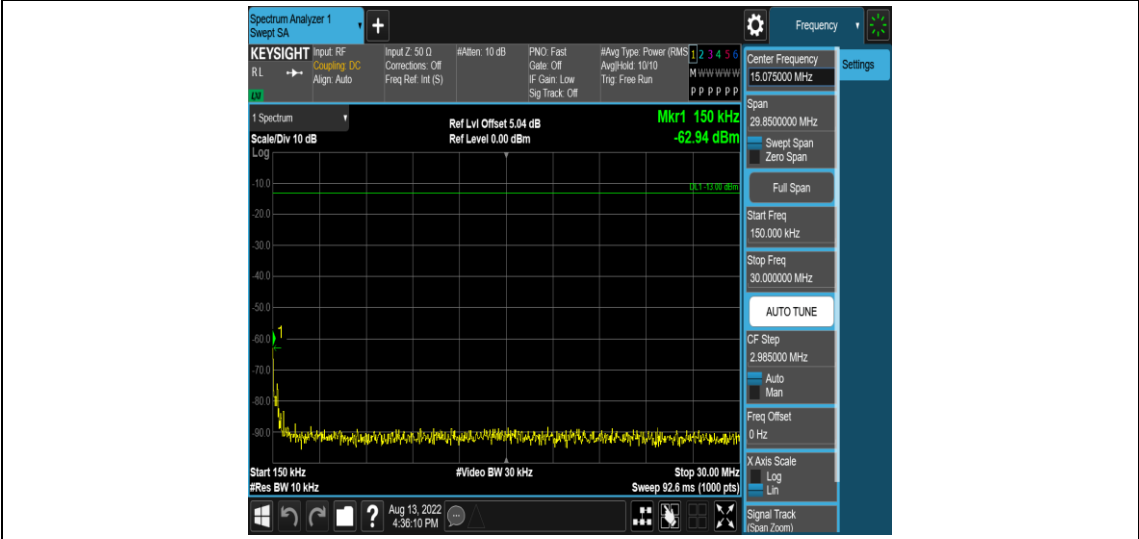
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



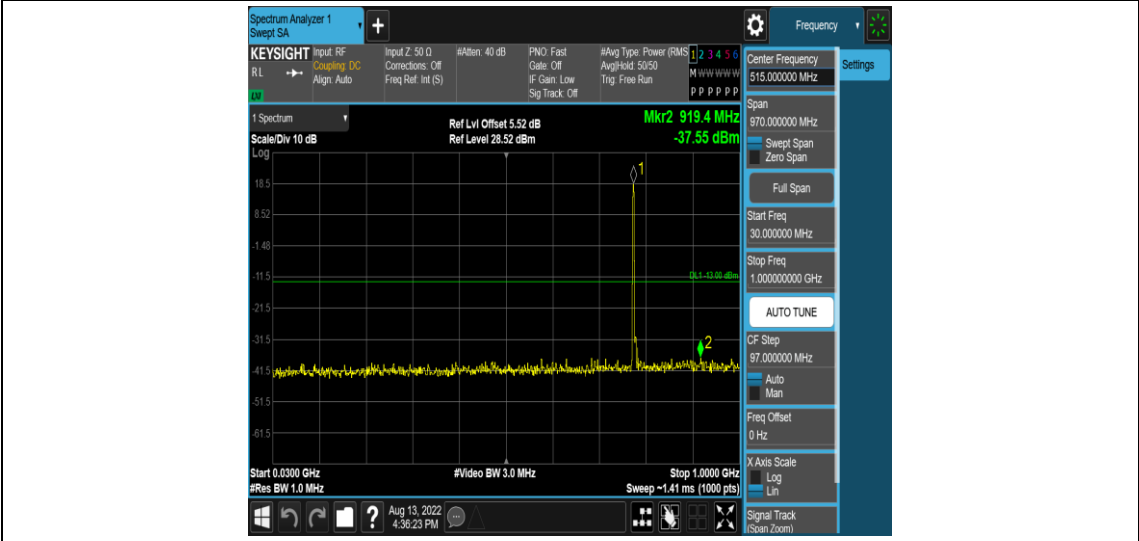
Band13-5MHz-QPSK-23205-1RB#0-Range7:1559~1610MHz



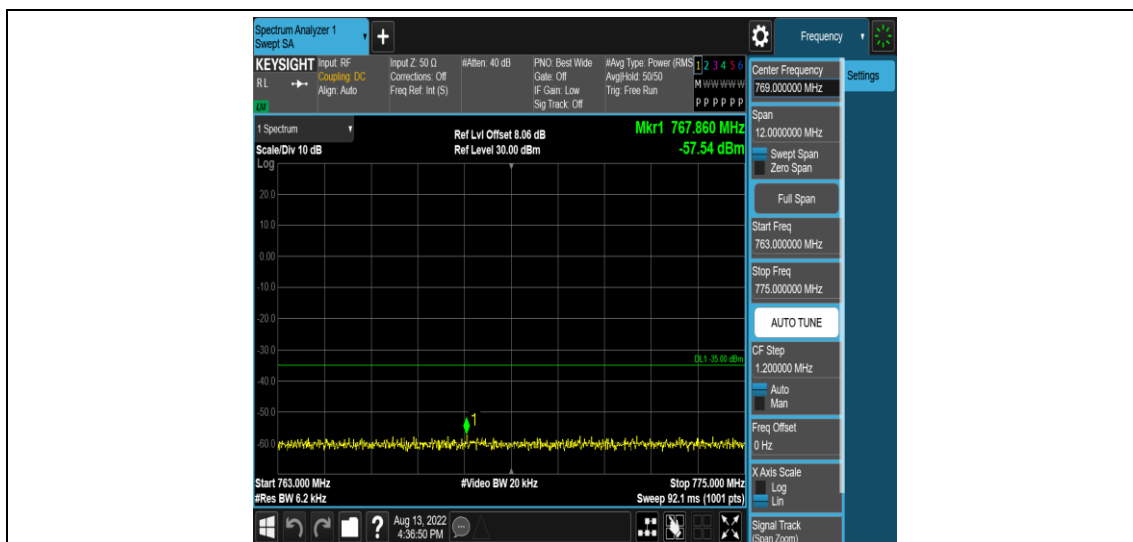
Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



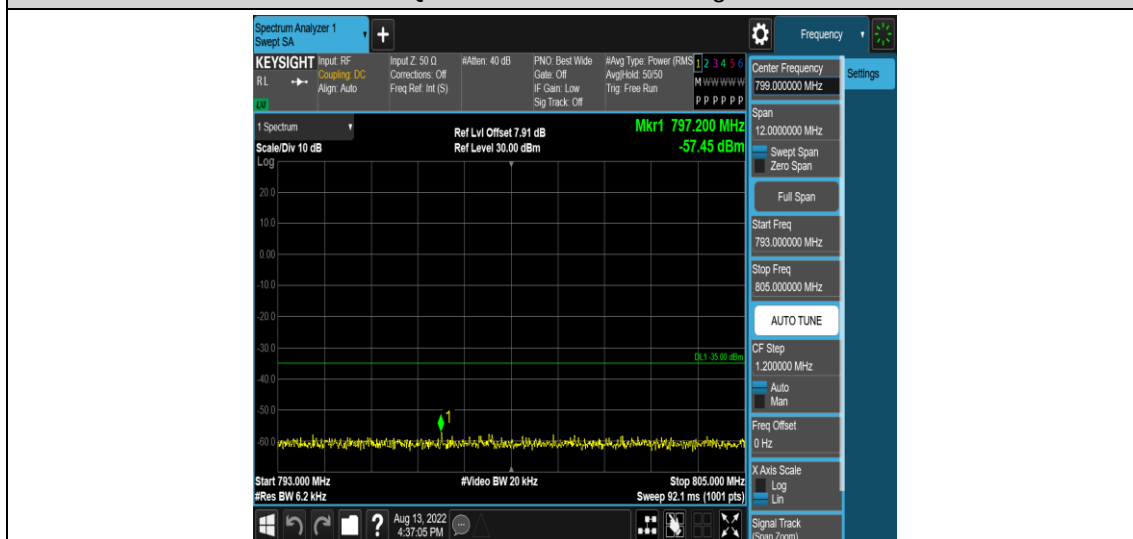
Band13-5MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range5:763~775MHz



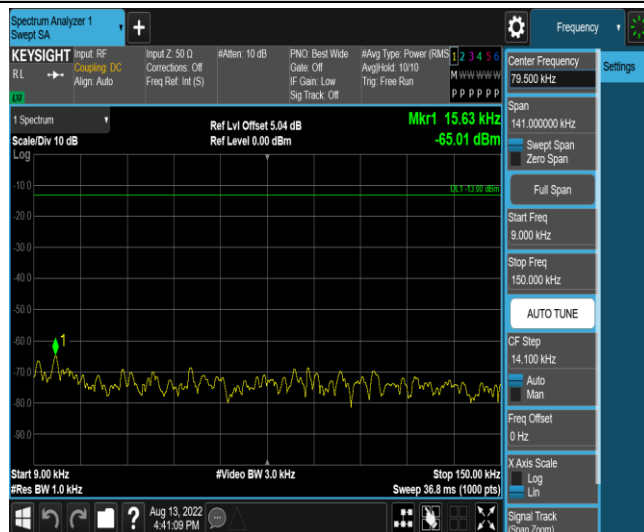
Band13-5MHz-QPSK-23230-1RB#0-Range6:793~805MHz



Band13-5MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



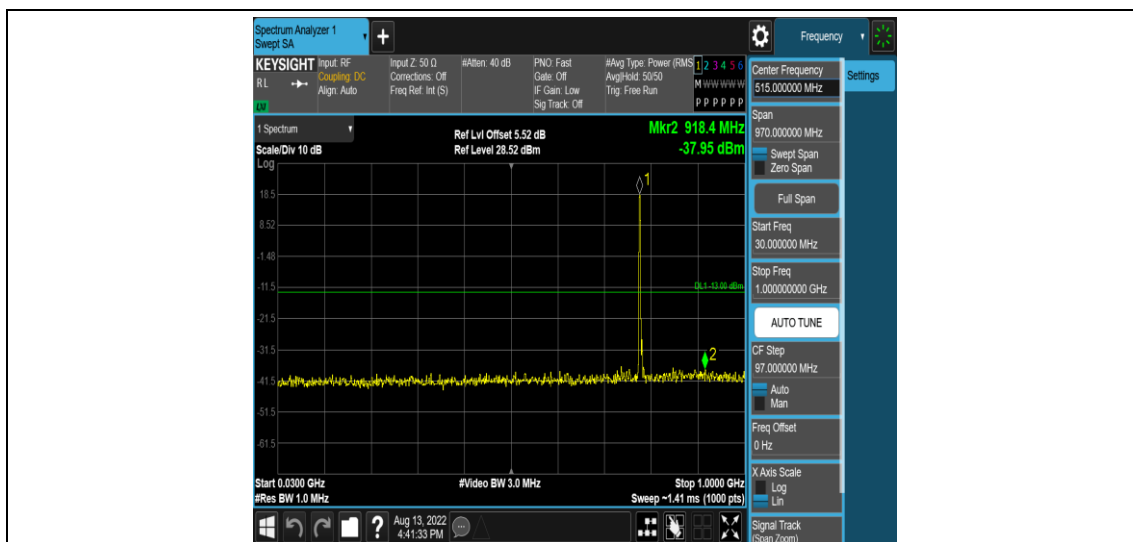
Band13-5MHz-QPSK-23230-1RB#0-Range7:1559~1610MHz



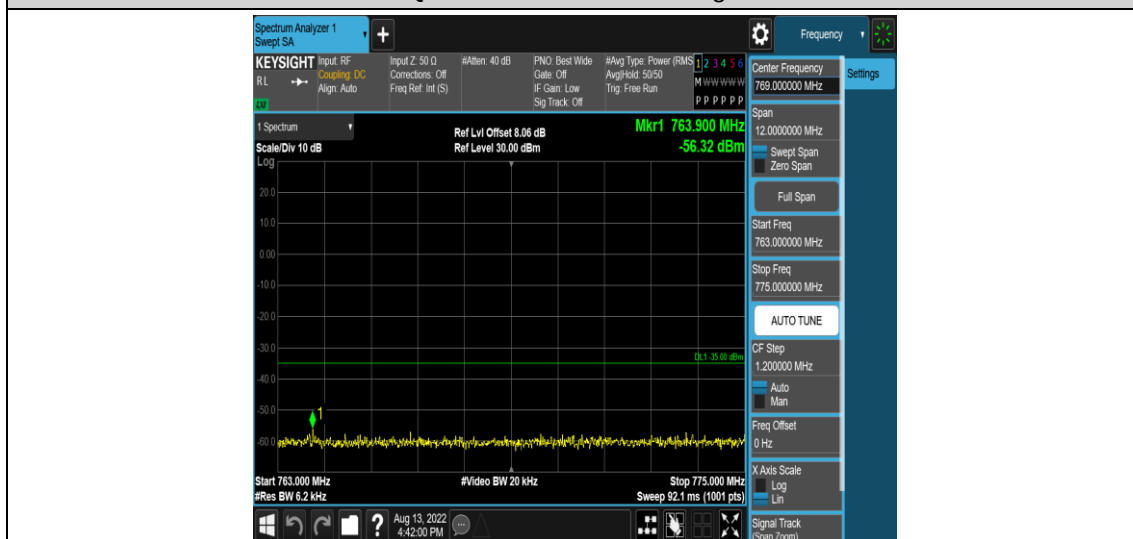
Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz



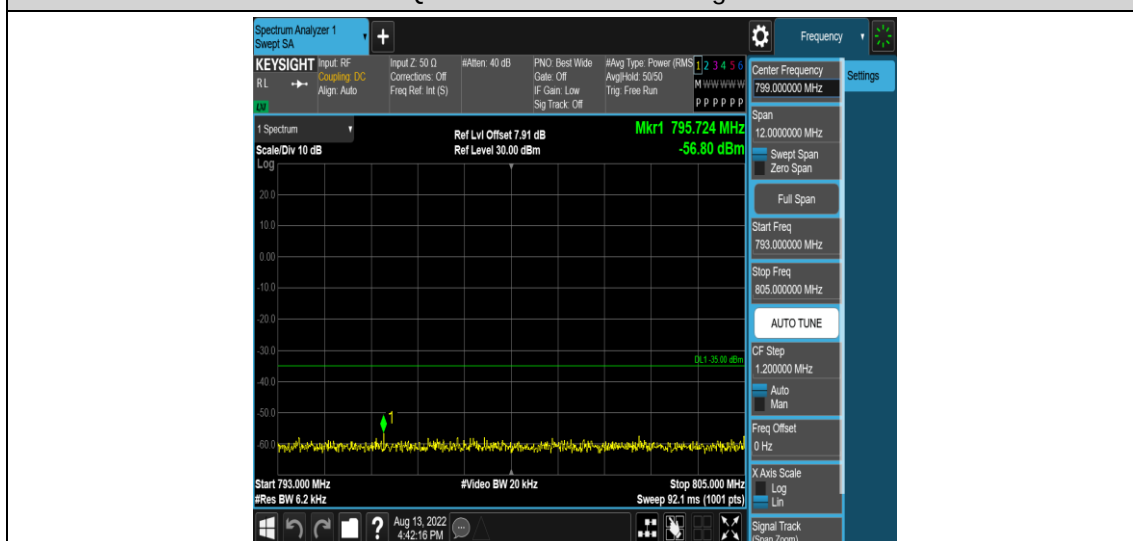
Band13-5MHz-QPSK-23255-1RB#0-Range2:0.15~30MHz



Band13-5MHz-QPSK-23255-1RB#0-Range3:30~1000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range5:763~775MHz



Band13-5MHz-QPSK-23255-1RB#0-Range6:793~805MHz



Band13-5MHz-QPSK-23255-1RB#0-Range4:1000~10000MHz



Band13-5MHz-QPSK-23255-1RB#0-Range7:1559~1610MHz



Band13-5MHz-16QAM-23205-1RB#0-Range1:0.009~0.15MHz