

Appendix for Band 13

Product Name: 4G Power Socket

Model No: GSMSOCUS4G (EXA)

Appendix A: Average Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.46	PASS
Band13	5MHz	QPSK	23205	1RB#12	21.93	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.18	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.19	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.04	PASS
Band13	5MHz	QPSK	23205	12RB#13	20.92	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.05	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.19	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.21	PASS
Band13	5MHz	QPSK	23230	1RB#24	21.96	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.09	PASS
Band13	5MHz	QPSK	23230	12RB#6	20.79	PASS
Band13	5MHz	QPSK	23230	12RB#13	20.90	PASS
Band13	5MHz	QPSK	23230	25RB#0	20.99	PASS
Band13	5MHz	QPSK	23255	1RB#0	21.85	PASS
Band13	5MHz	QPSK	23255	1RB#12	21.62	PASS
Band13	5MHz	QPSK	23255	1RB#24	21.55	PASS
Band13	5MHz	QPSK	23255	12RB#0	20.84	PASS
Band13	5MHz	QPSK	23255	12RB#6	20.86	PASS
Band13	5MHz	QPSK	23255	12RB#13	20.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	20.84	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.12	PASS
Band13	5MHz	16QAM	23205	1RB#12	20.80	PASS
Band13	5MHz	16QAM	23205	1RB#24	20.94	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.52	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.42	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.56	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.53	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.11	PASS
Band13	5MHz	16QAM	23230	1RB#12	20.65	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.02	PASS

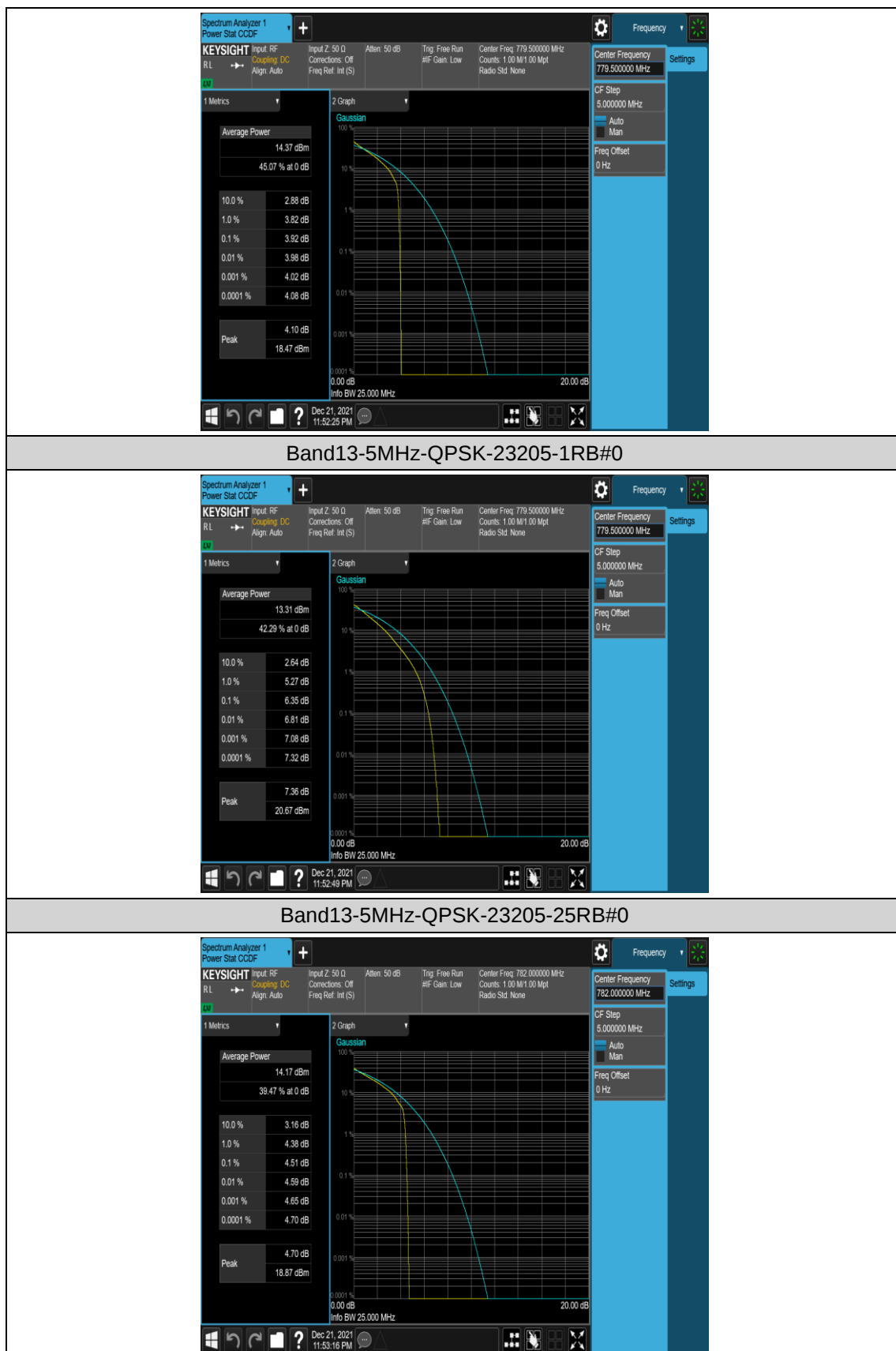
Band13	5MHz	16QAM	23230	12RB#0	20.51	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.64	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.82	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.90	PASS
Band13	5MHz	16QAM	23255	1RB#0	20.66	PASS
Band13	5MHz	16QAM	23255	1RB#12	20.36	PASS
Band13	5MHz	16QAM	23255	1RB#24	20.55	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.67	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.84	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.80	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.31	PASS
Band13	10MHz	QPSK	23230	1RB#24	21.93	PASS
Band13	10MHz	QPSK	23230	1RB#49	20.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	20.98	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.00	PASS
Band13	10MHz	QPSK	23230	25RB#25	20.81	PASS
Band13	10MHz	QPSK	23230	50RB#0	20.93	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.41	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.21	PASS
Band13	10MHz	16QAM	23230	1RB#49	20.90	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.96	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.97	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.87	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.84	PASS

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

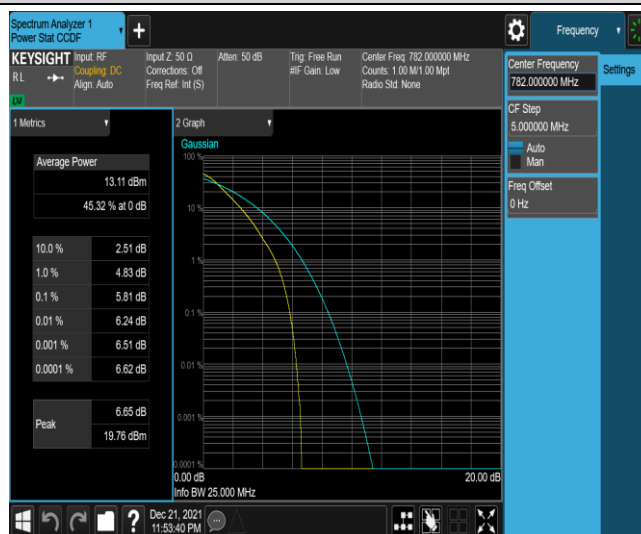
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.92	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	6.35	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.51	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.81	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.14	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.89	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.86	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	7.14	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.37	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.73	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.05	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.73	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.85	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.57	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.78	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.52	13	PASS

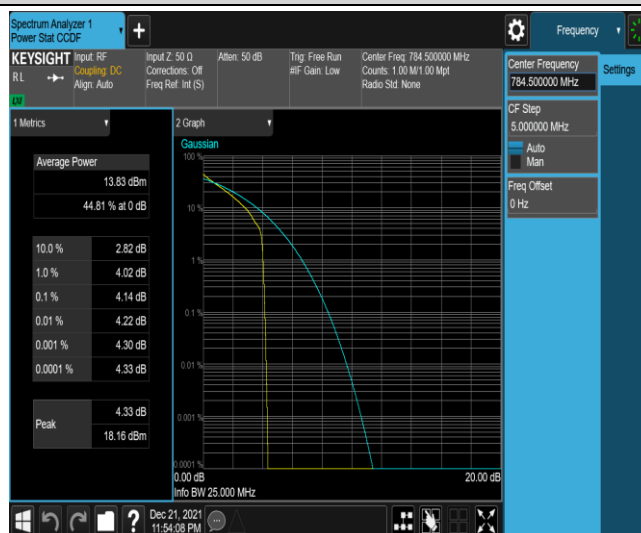
Test Graphs



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



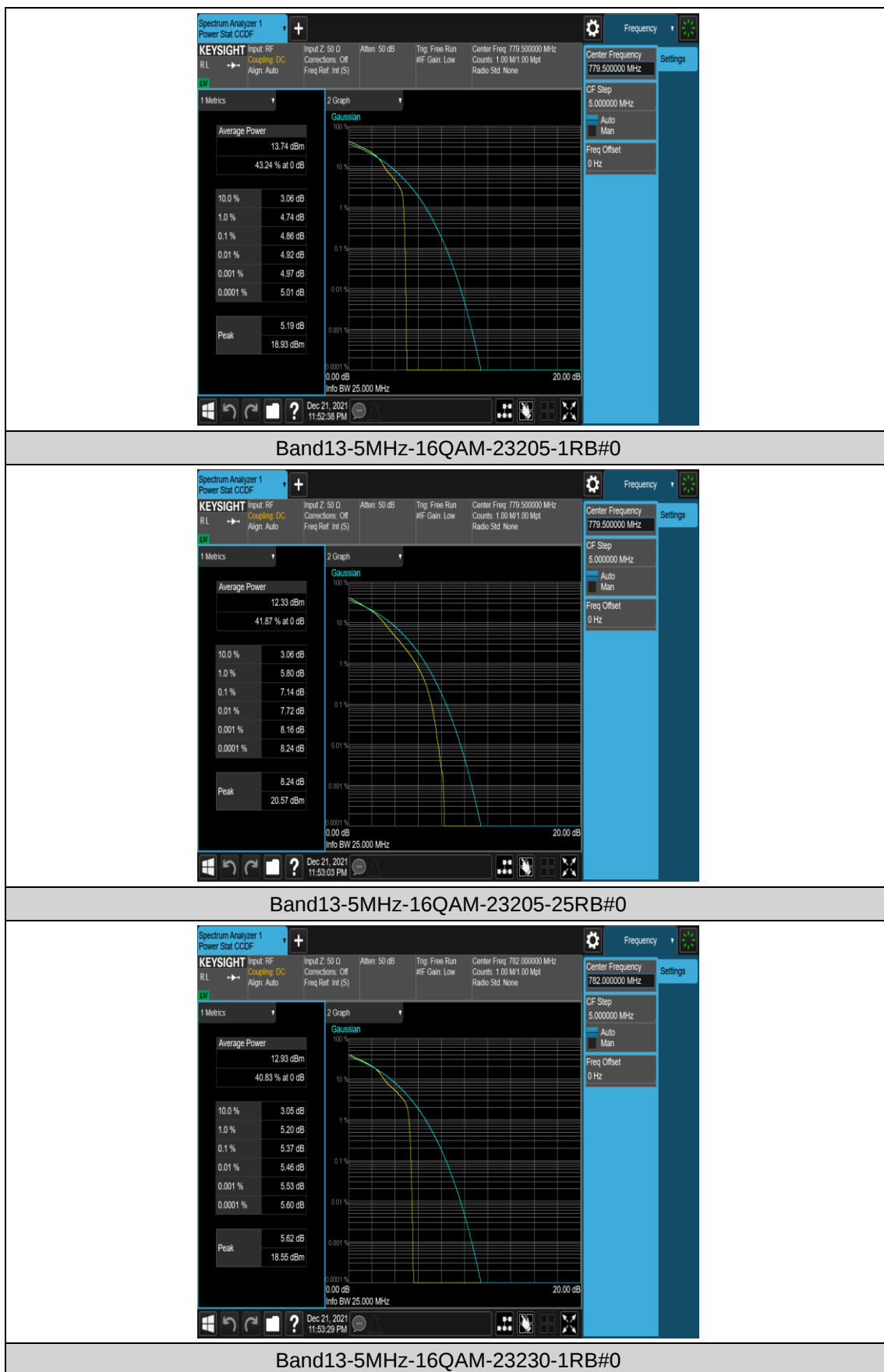
Band13-5MHz-QPSK-23230-25RB#0

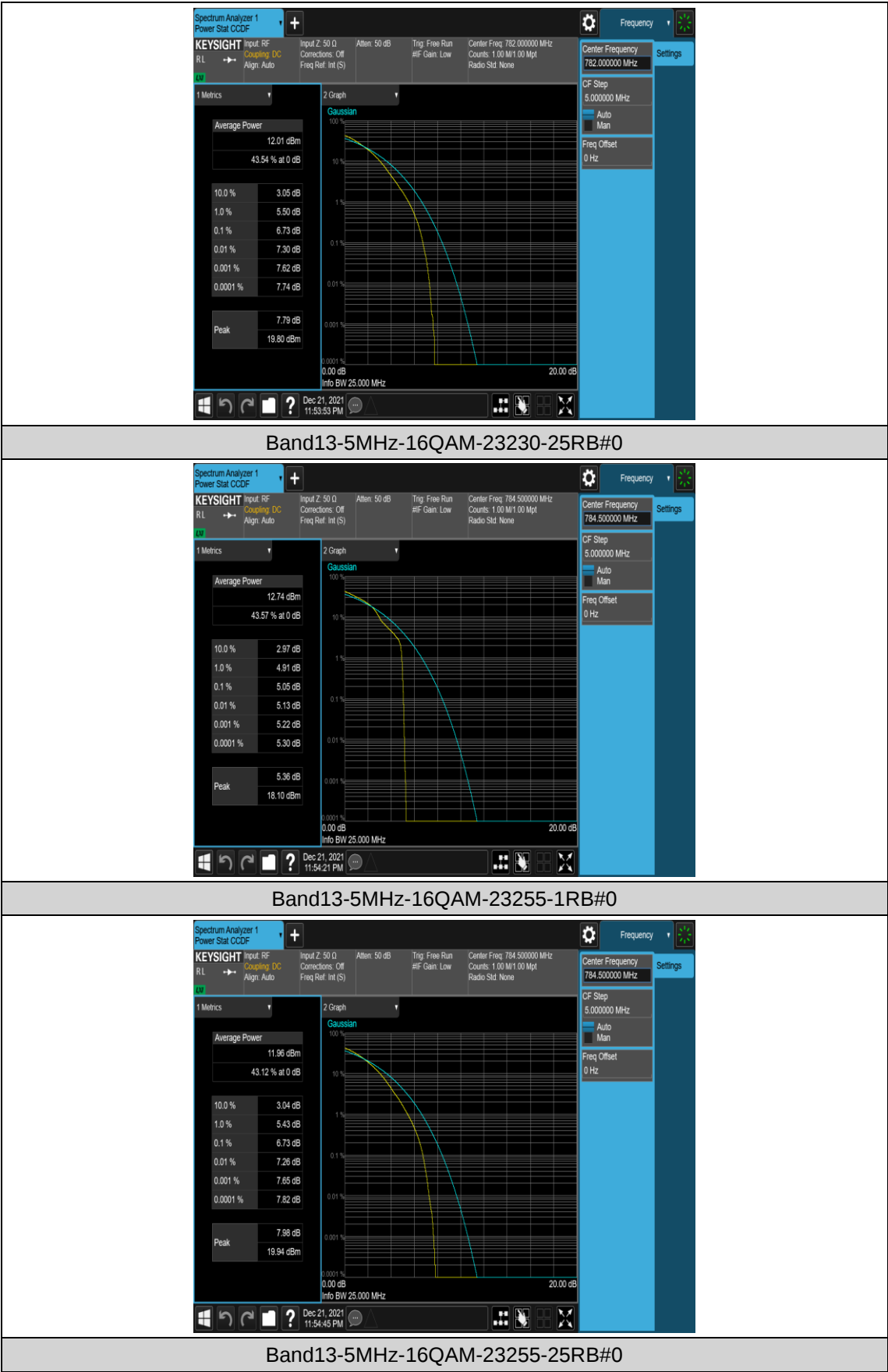


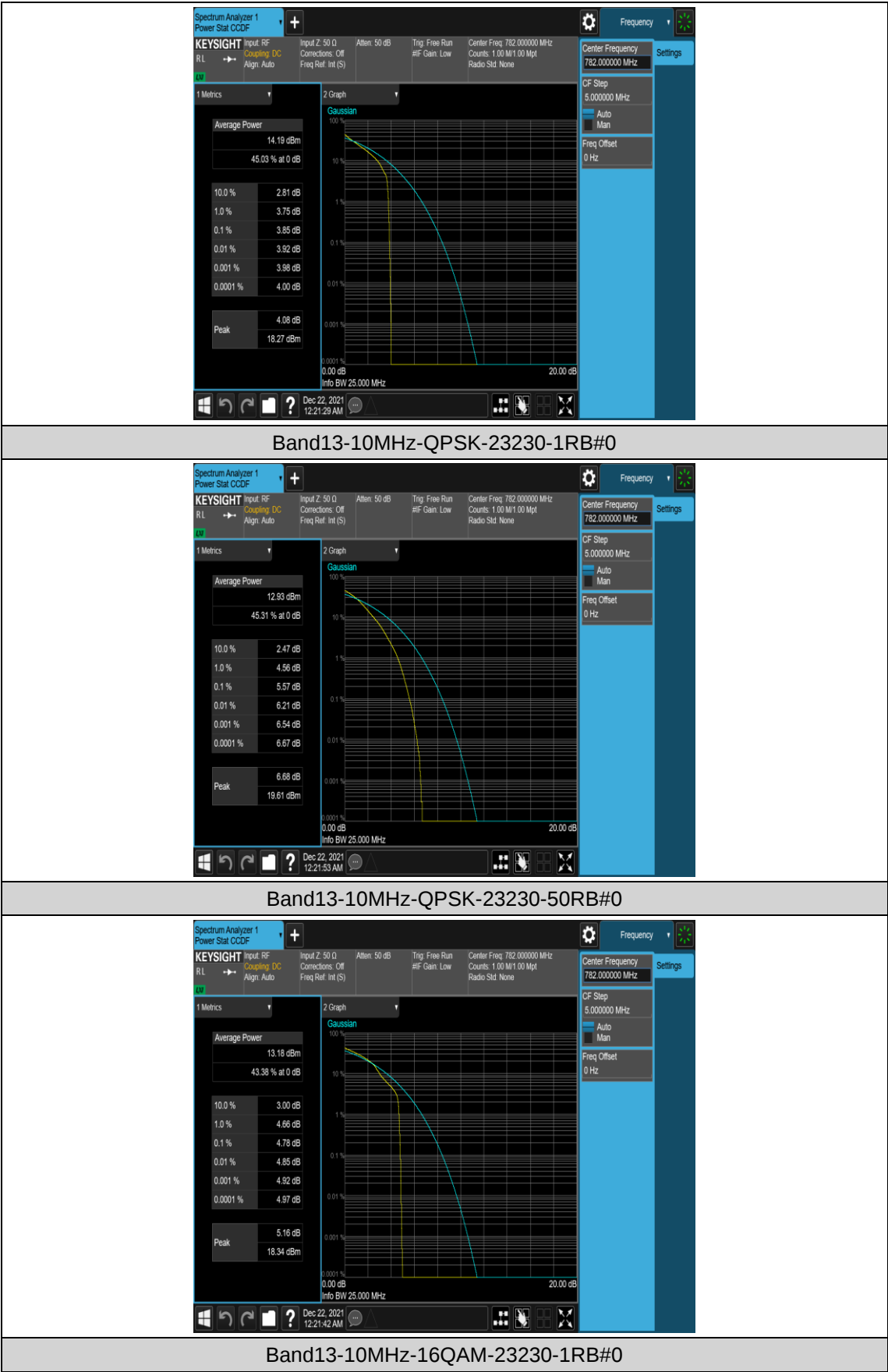
Band13-5MHz-QPSK-23255-1RB#0

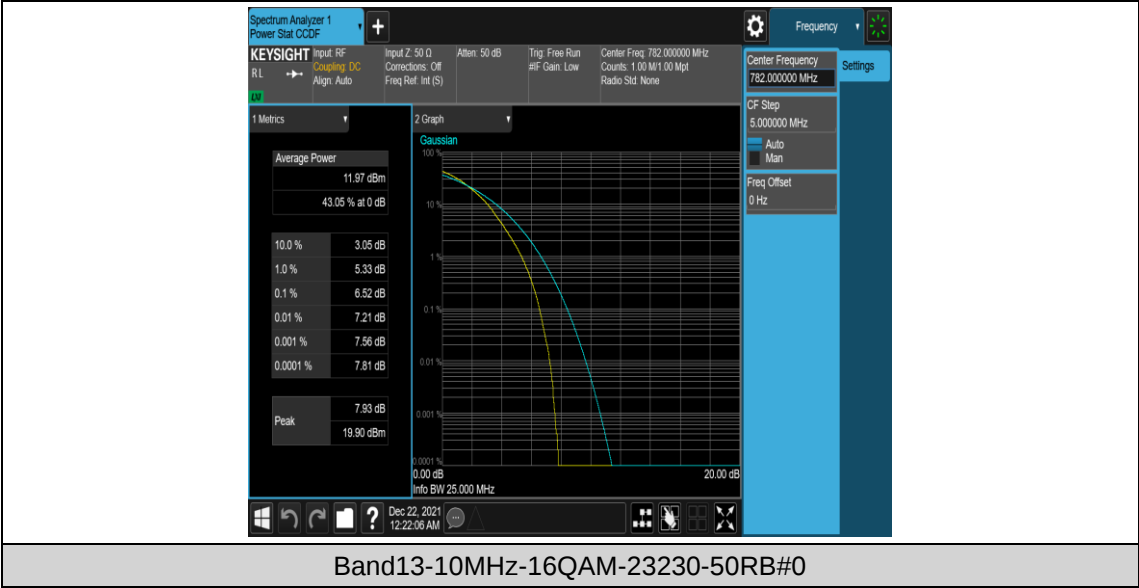


Band13-5MHz-QPSK-23255-25RB#0







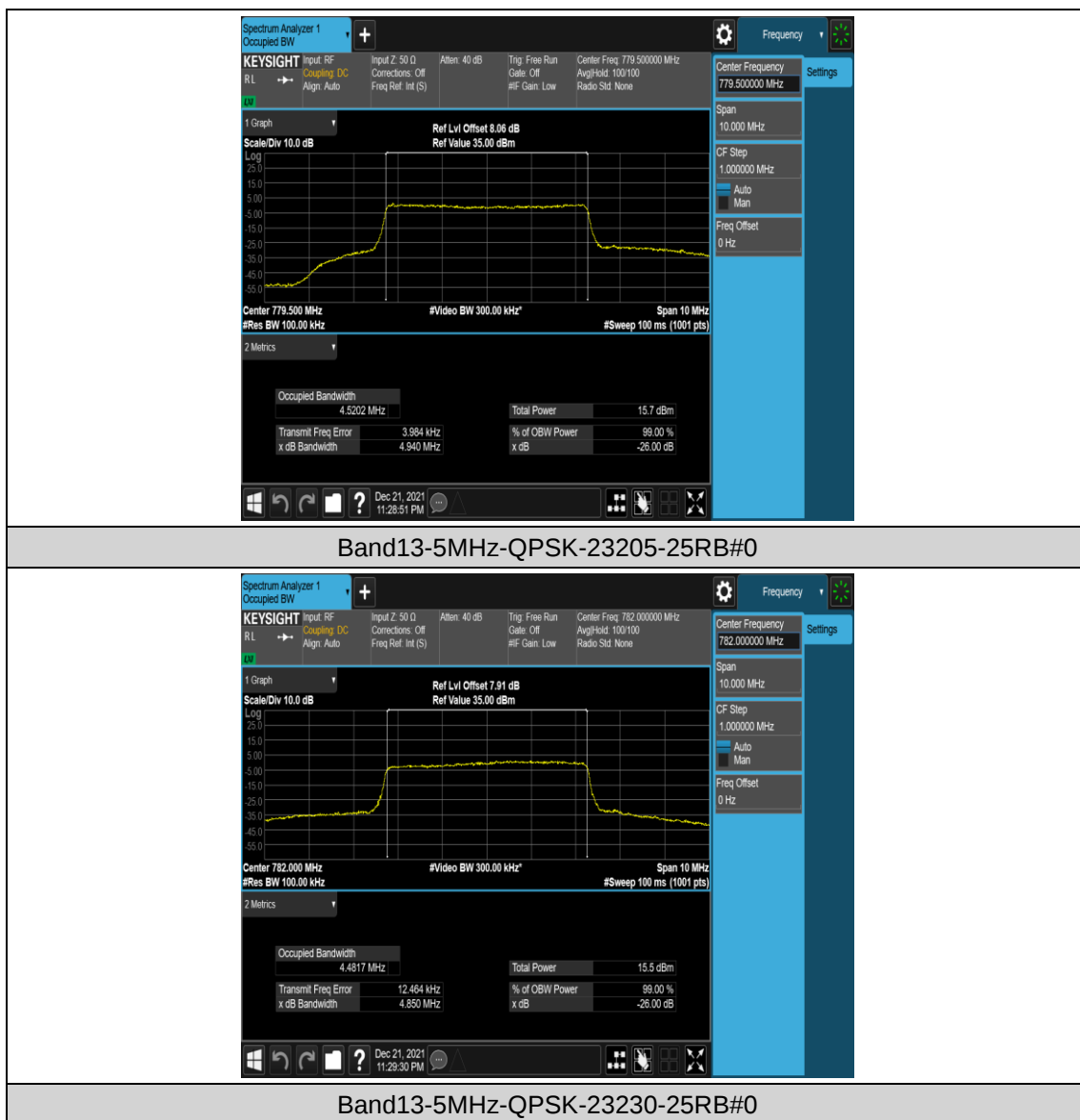


Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5202	4.940	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4817	4.850	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4907	4.808	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5197	4.899	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4840	4.851	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4934	4.828	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9262	9.508	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9096	9.476	PASS

Test Graphs





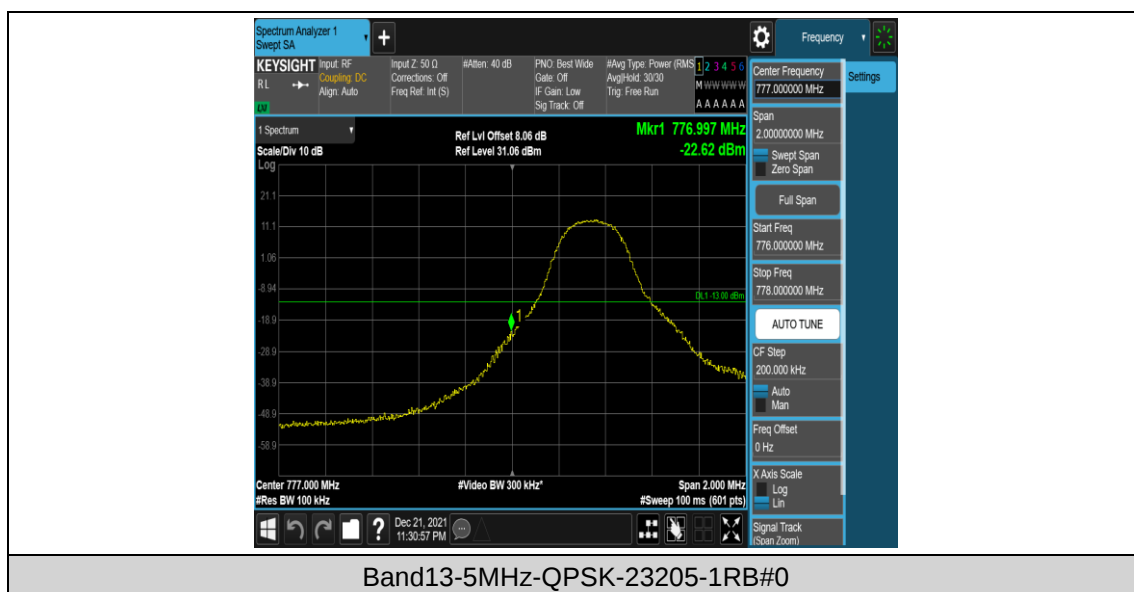


Appendix D: Band Edge

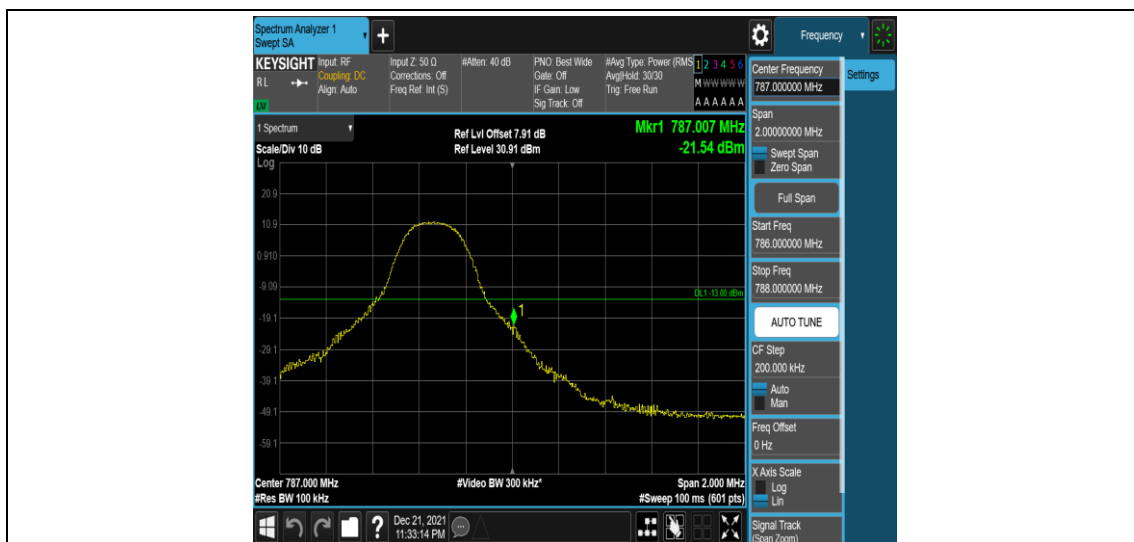
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band13	5MHz	QPSK	23205	1RB#0	PASS
Band13	5MHz	QPSK	23205	1RB#24	PASS
Band13	5MHz	QPSK	23205	25RB#0	PASS
Band13	5MHz	QPSK	23255	1RB#0	PASS
Band13	5MHz	QPSK	23255	1RB#24	PASS
Band13	5MHz	QPSK	23255	25RB#0	PASS
Band13	5MHz	16QAM	23205	1RB#0	PASS
Band13	5MHz	16QAM	23205	1RB#24	PASS
Band13	5MHz	16QAM	23205	25RB#0	PASS
Band13	5MHz	16QAM	23255	1RB#0	PASS
Band13	5MHz	16QAM	23255	1RB#24	PASS
Band13	5MHz	16QAM	23255	25RB#0	PASS

Test Graphs



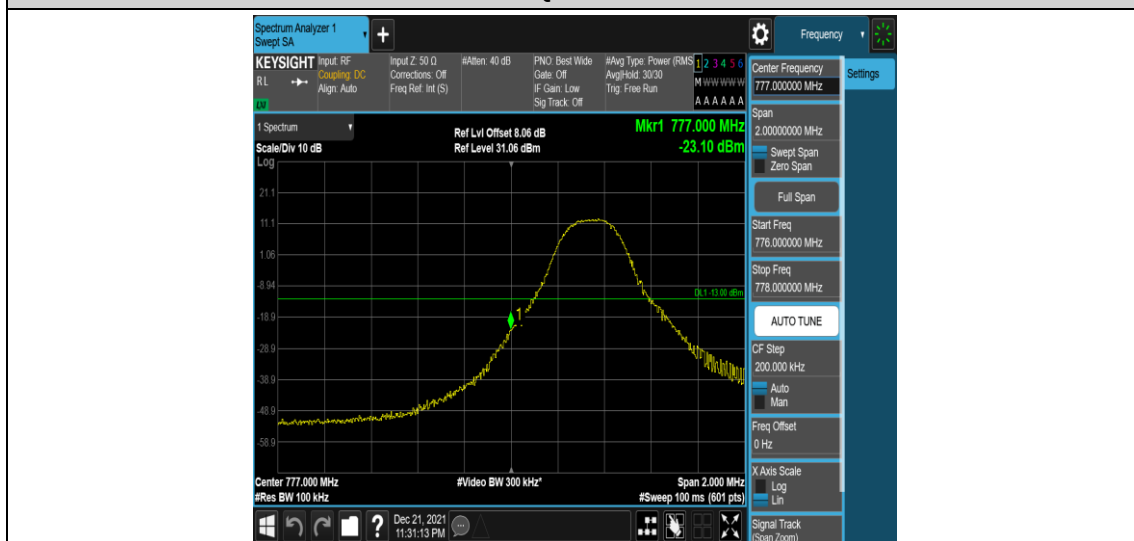




Band13-5MHz-QPSK-23255-1RB#24



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



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



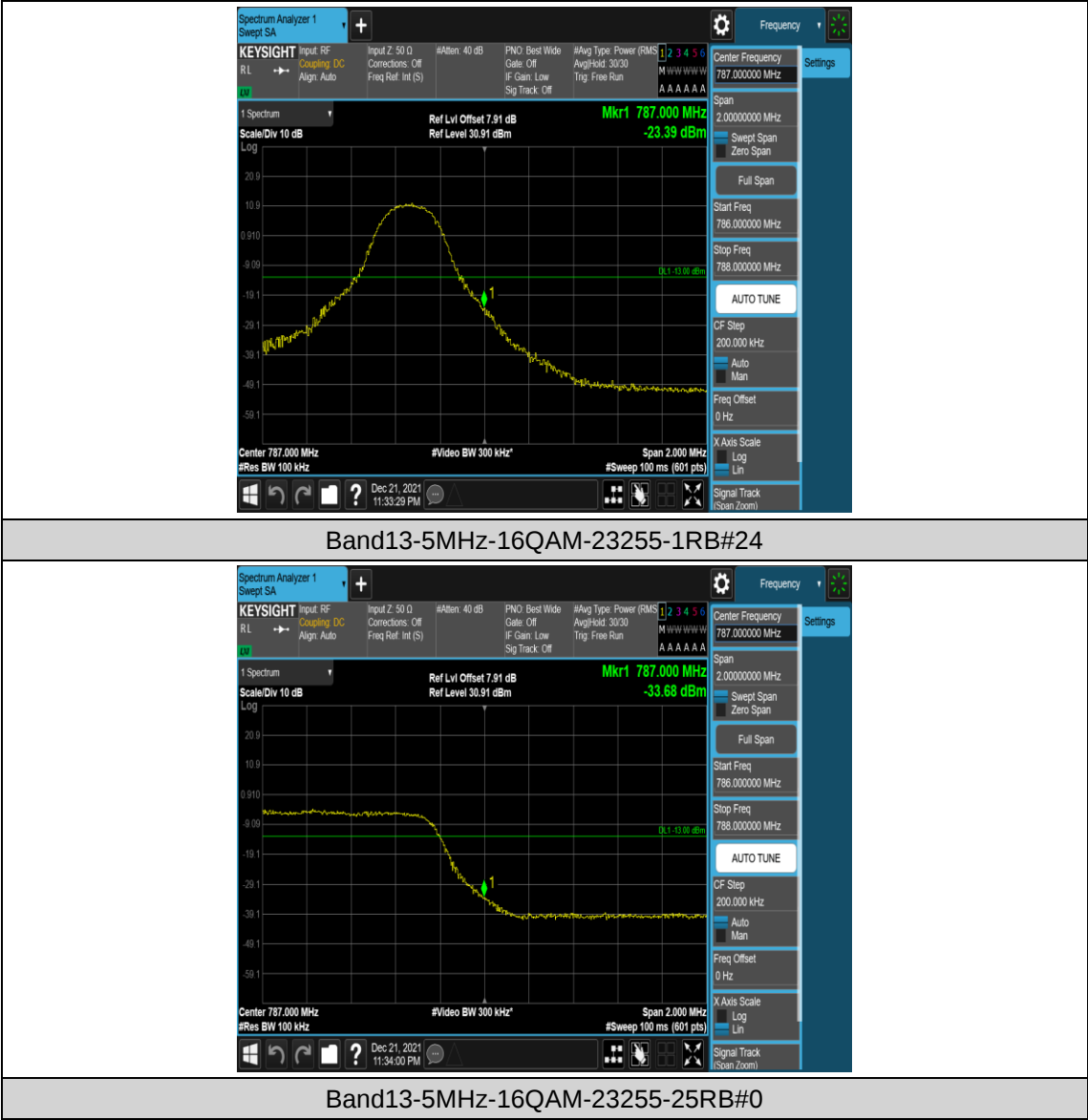
Band13-5MHz-16QAM-23205-1RB#24



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



Band13-5MHz-16QAM-23255-1RB#0



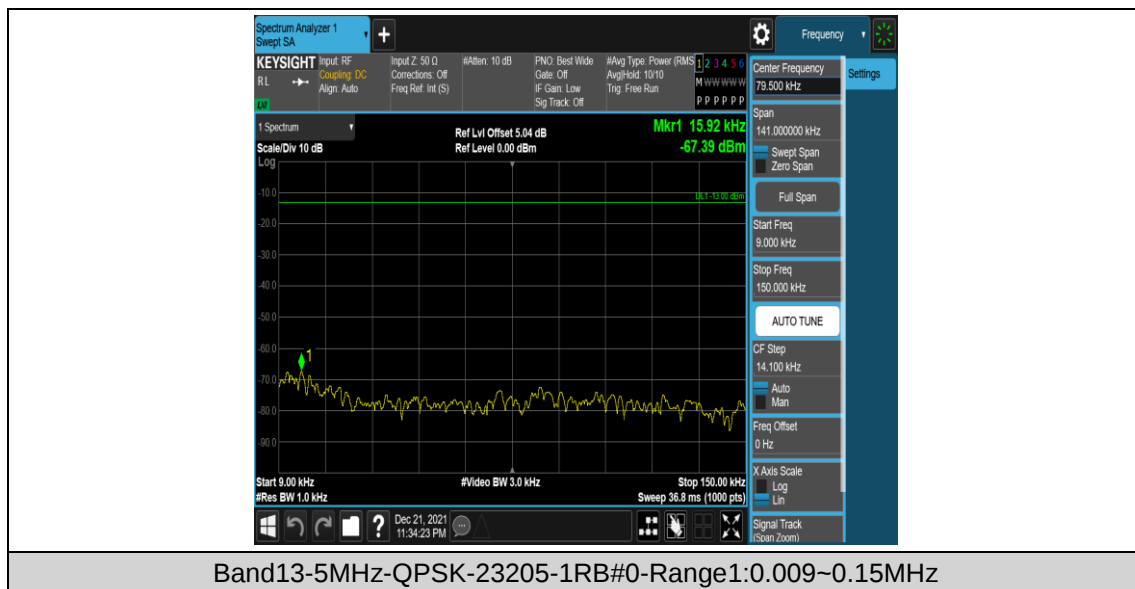
Appendix E: Conducted Spurious Emission

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

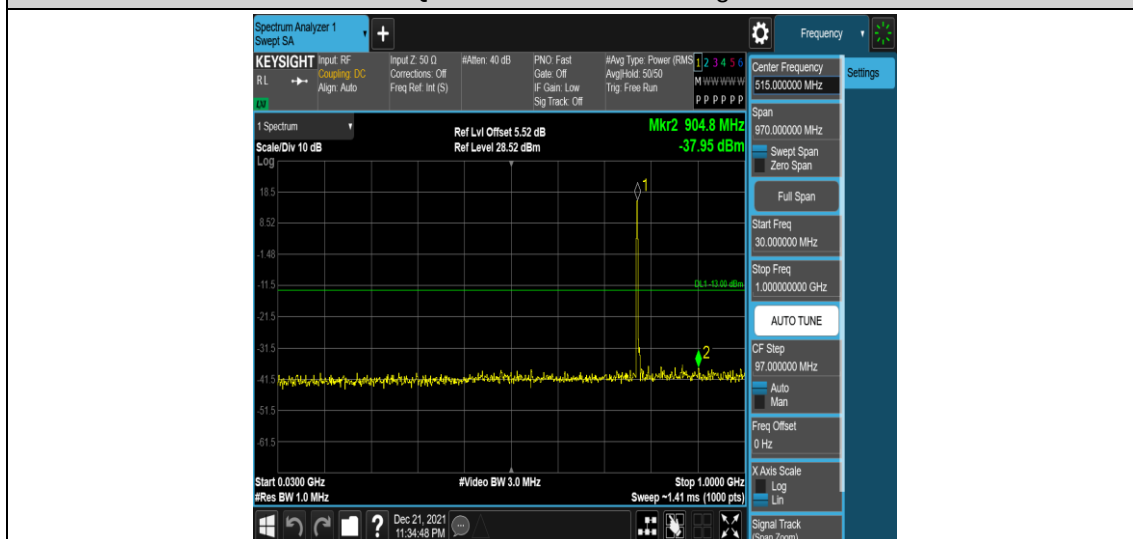
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz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



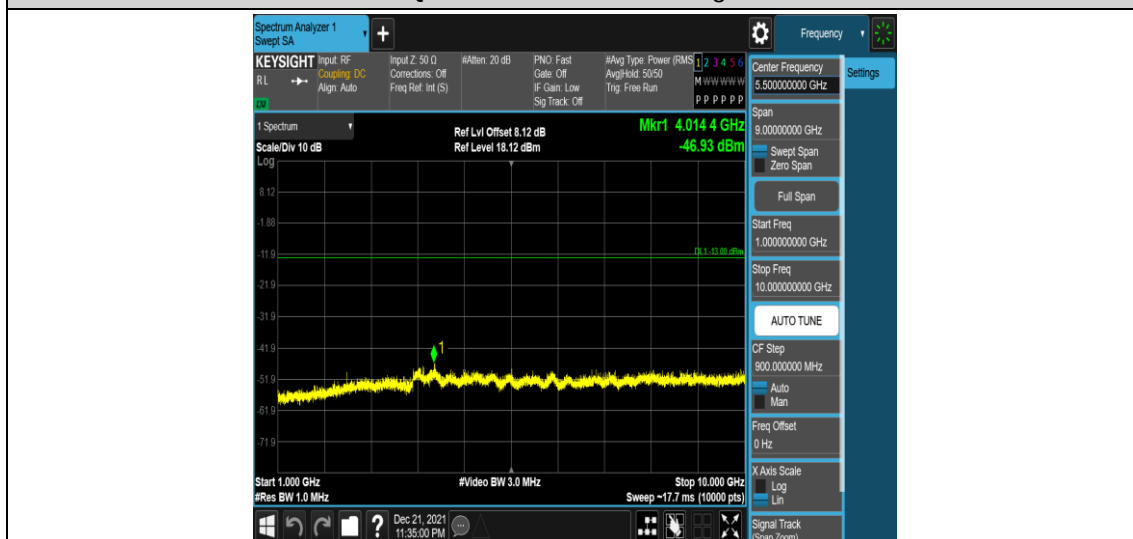
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



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



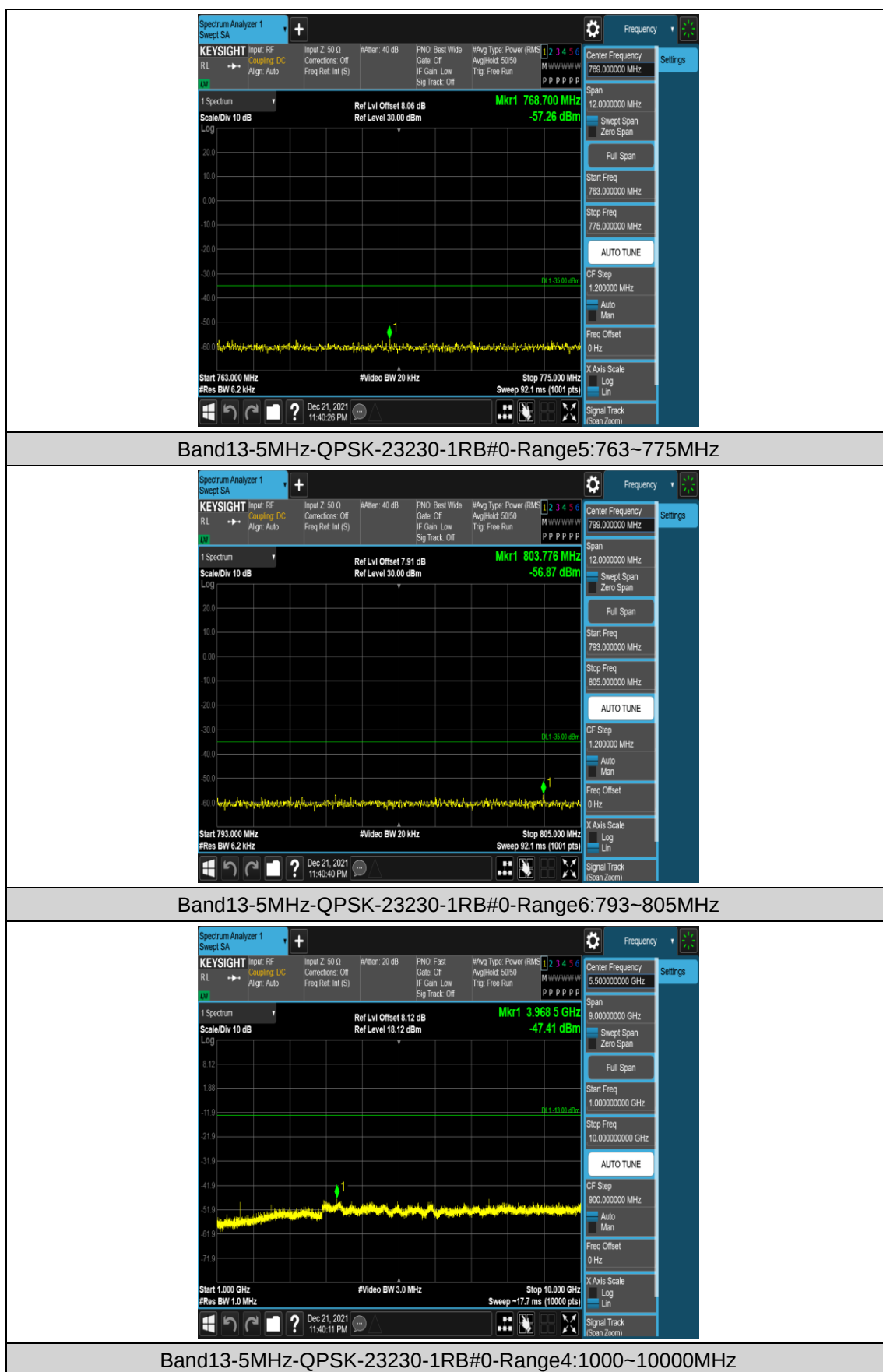
Band13-5MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz

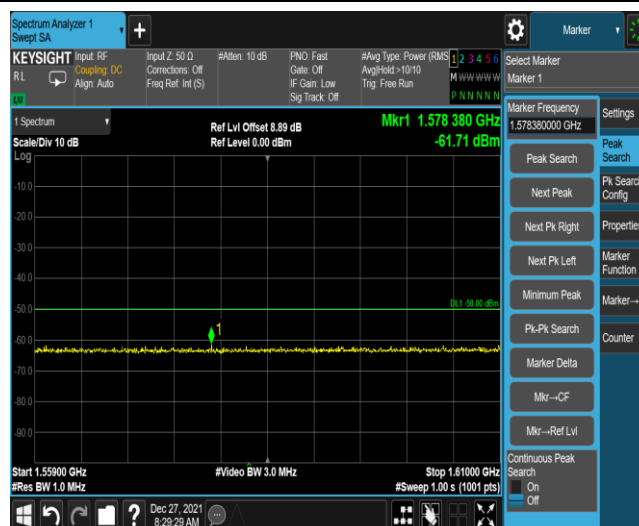


Band13-5MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

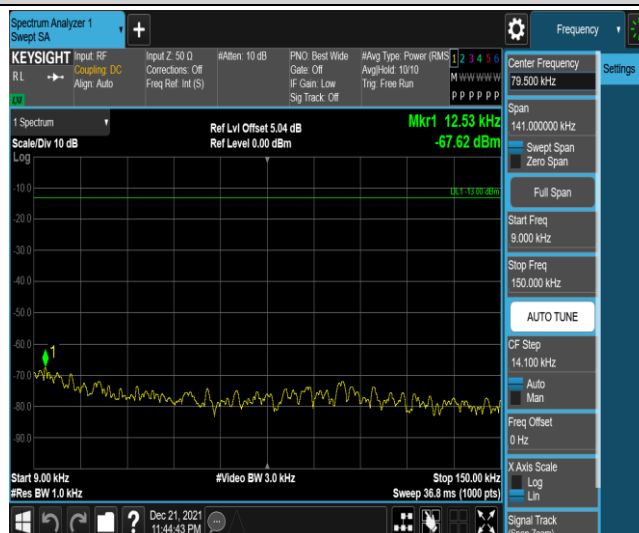


Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz

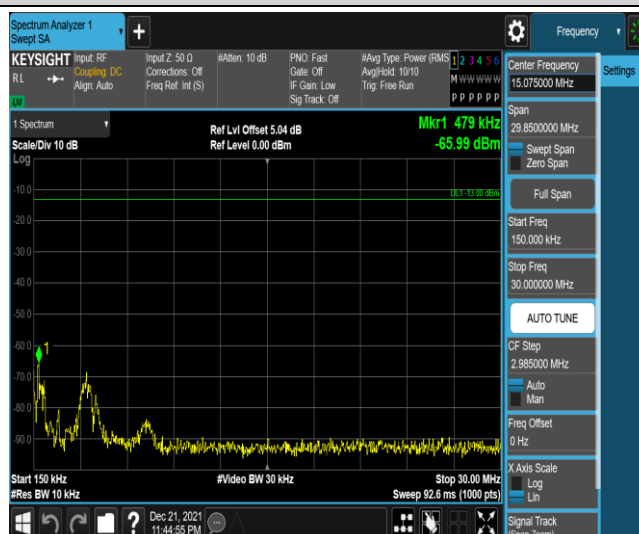




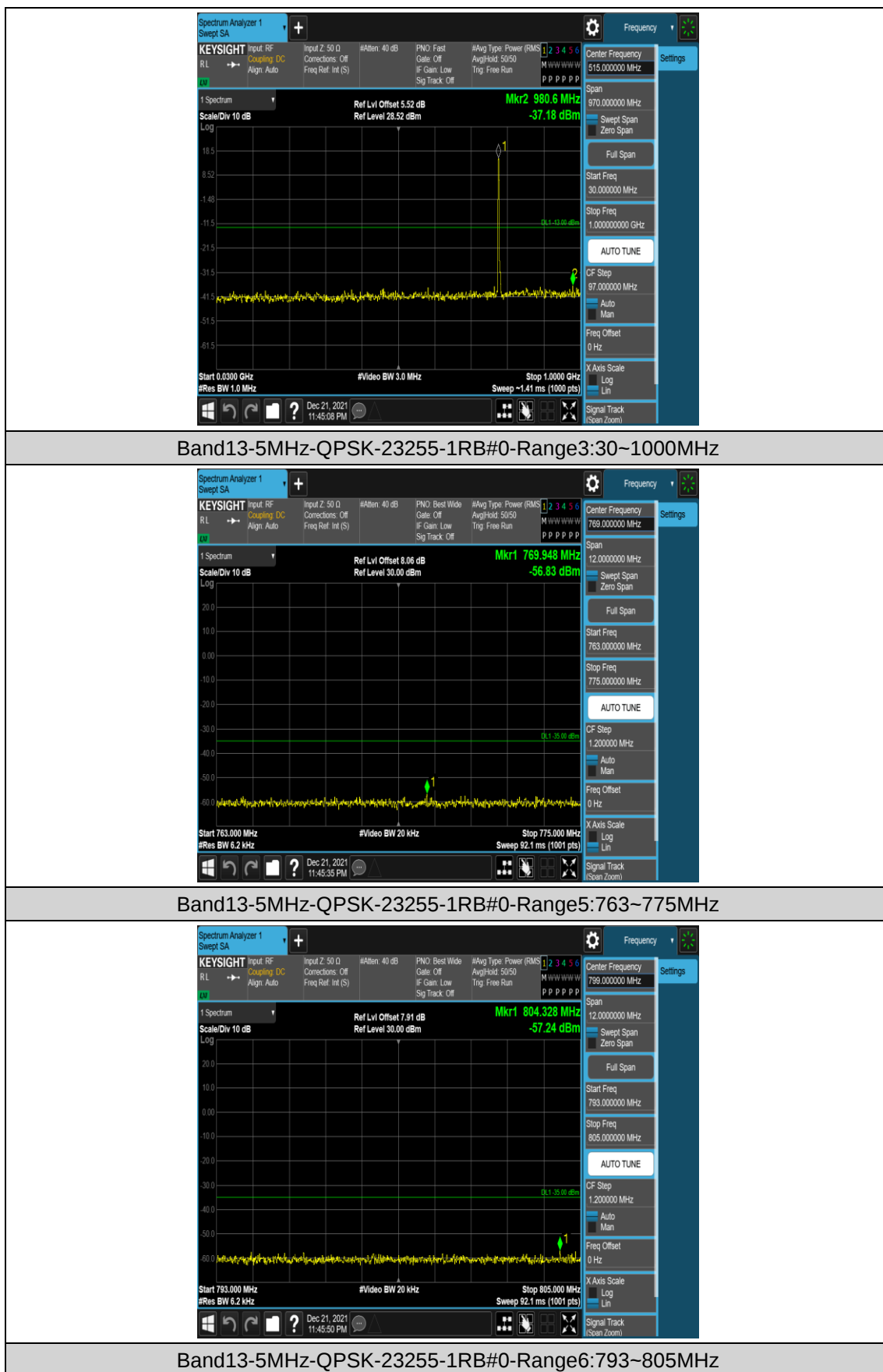
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Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz



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



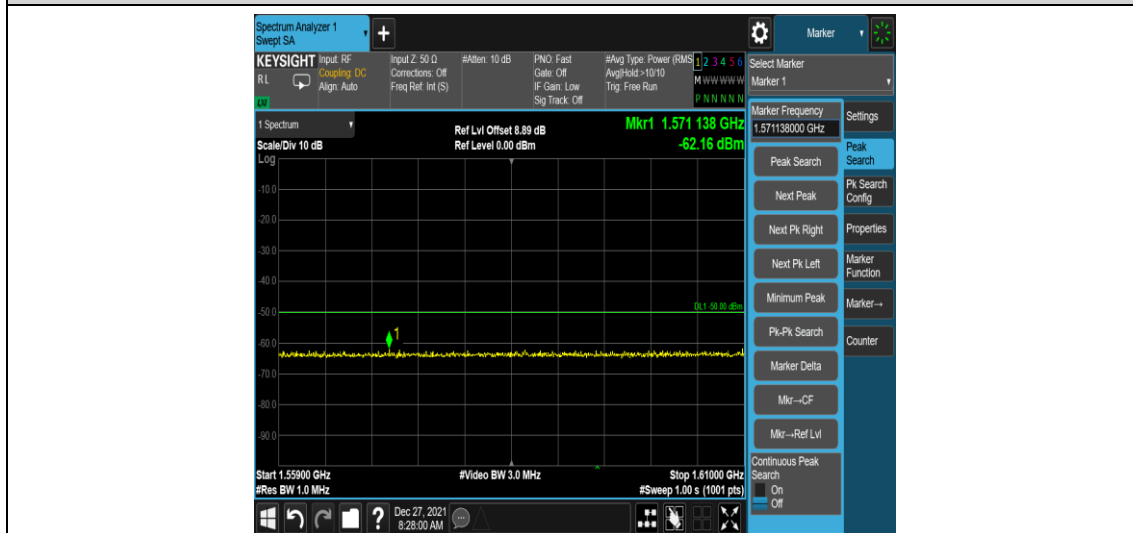
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Band13-5MHz-QPSK-23255-1RB#0-Range5:763~775MHz

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