

LTE BandX Test Data

Company: : Shenzhen Jimi IoT Co., Ltd.

EUT : LTE CAT1 ASSET GNSS TRACKER

Model Number : LL301, LL301L, LL301E

FCC ID : 2AMLFJM-LL301L



Appendix A: Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.06	PASS
Band7	5MHz	QPSK	20775	1RB#12	20.82	PASS
Band7	5MHz	QPSK	20775	1RB#24	20.91	PASS
Band7	5MHz	QPSK	20775	12RB#0	21.23	PASS
Band7	5MHz	QPSK	20775	12RB#6	21.32	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.53	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.42	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.26	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.05	PASS
Band7	5MHz	QPSK	21100	1RB#24	20.92	PASS
Band7	5MHz	QPSK	21100	12RB#0	21.93	PASS
Band7	5MHz	QPSK	21100	12RB#6	21.89	PASS
Band7	5MHz	QPSK	21100	12RB#13	21.76	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.31	PASS
Band7	5MHz	QPSK	21425	1RB#0	20.37	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.09	PASS
Band7	5MHz	QPSK	21425	1RB#24	19.91	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.22	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.19	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.89	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.03	PASS
Band7	5MHz	16QAM	20775	1RB#0	19.94	PASS
Band7	5MHz	16QAM	20775	1RB#12	19.93	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.07	PASS
Band7	5MHz	16QAM	20775	12RB#0	20.35	PASS
Band7	5MHz	16QAM	20775	12RB#6	20.54	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.68	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.47	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.59	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.19	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.84	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.36	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.33	PASS

Band7	5MHz	16QAM	21100	12RB#13	21.29	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.51	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.51	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.20	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.10	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.21	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.20	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.91	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.53	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.40	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.34	PASS
Band7	10MHz	QPSK	20800	1RB#49	20.87	PASS
Band7	10MHz	QPSK	20800	25RB#0	21.44	PASS
Band7	10MHz	QPSK	20800	25RB#12	21.53	PASS
Band7	10MHz	QPSK	20800	25RB#25	21.72	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.54	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.05	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.10	PASS
Band7	10MHz	QPSK	21100	1RB#49	20.63	PASS
Band7	10MHz	QPSK	21100	25RB#0	21.85	PASS
Band7	10MHz	QPSK	21100	25RB#12	21.94	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.77	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.40	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.49	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.45	PASS
Band7	10MHz	QPSK	21400	1RB#49	19.86	PASS
Band7	10MHz	QPSK	21400	25RB#0	21.38	PASS
Band7	10MHz	QPSK	21400	25RB#12	21.36	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.15	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.26	PASS
Band7	10MHz	16QAM	20800	1RB#0	19.75	PASS
Band7	10MHz	16QAM	20800	1RB#24	19.83	PASS
Band7	10MHz	16QAM	20800	1RB#49	19.56	PASS
Band7	10MHz	16QAM	20800	25RB#0	20.15	PASS
Band7	10MHz	16QAM	20800	25RB#12	20.02	PASS
Band7	10MHz	16QAM	20800	25RB#25	20.26	PASS
Band7	10MHz	16QAM	20800	50RB#0	0.00	PASS

Band7	10MHz	16QAM	21100	1RB#0	20.03	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.47	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.03	PASS
Band7	10MHz	16QAM	21100	25RB#0	20.04	PASS
Band7	15MHz	QPSK	20825	1RB#0	20.93	PASS
Band7	15MHz	QPSK	20825	1RB#38	20.25	PASS
Band7	15MHz	QPSK	20825	1RB#74	20.40	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.64	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.03	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.47	PASS
Band7	15MHz	QPSK	20825	75RB#0	19.41	PASS
Band7	15MHz	QPSK	21100	1RB#0	20.95	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.49	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.28	PASS
Band7	15MHz	QPSK	21100	38RB#0	21.20	PASS
Band7	15MHz	QPSK	21100	38RB#18	21.73	PASS
Band7	15MHz	QPSK	21100	38RB#37	21.08	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.89	PASS
Band7	15MHz	QPSK	21375	1RB#0	20.91	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	20.10	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.83	PASS
Band7	15MHz	QPSK	21375	38RB#18	20.92	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.01	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	20.92	PASS
Band7	20MHz	QPSK	20850	1RB#49	20.58	PASS
Band7	20MHz	QPSK	20850	1RB#99	20.62	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.80	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.95	PASS
Band7	20MHz	QPSK	20850	50RB#50	21.36	PASS
Band7	20MHz	QPSK	20850	100RB#0	19.76	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.47	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.06	PASS
Band7	20MHz	QPSK	21100	1RB#99	20.92	PASS
Band7	20MHz	QPSK	21100	50RB#0	21.91	PASS
Band7	20MHz	QPSK	21100	50RB#25	21.84	PASS

Band7	20MHz	QPSK	21100	50RB#50	21.56	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.94	PASS
Band7	20MHz	QPSK	21350	1RB#0	20.91	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.33	PASS
Band7	20MHz	QPSK	21350	1RB#99	19.96	PASS
Band7	20MHz	QPSK	21350	50RB#0	21.19	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.14	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.75	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.93	PASS

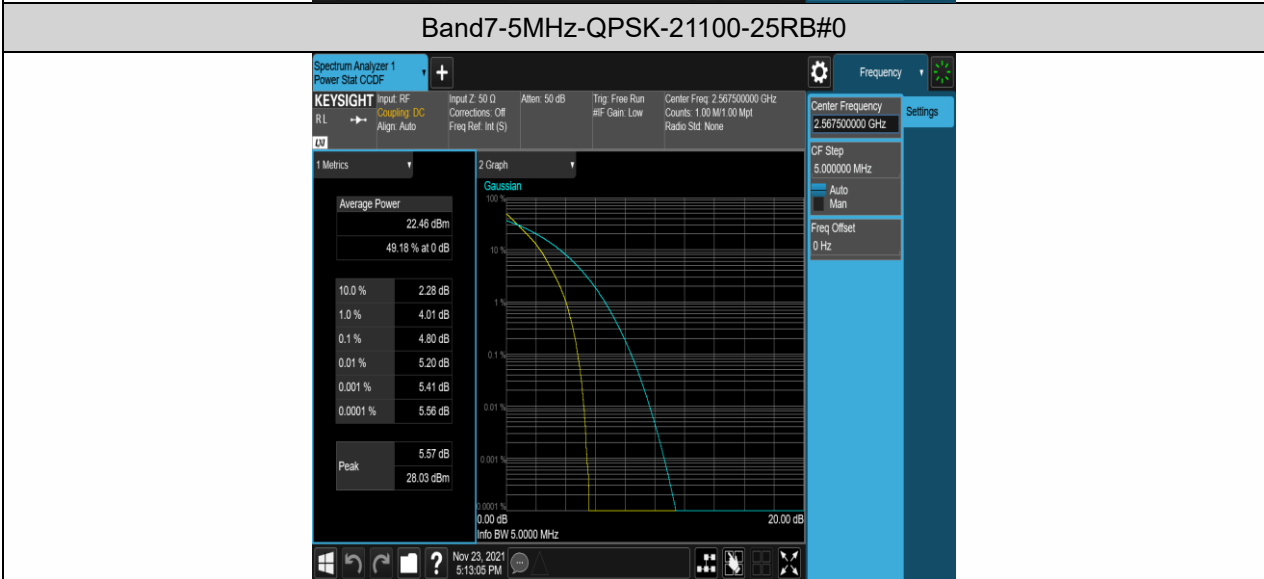
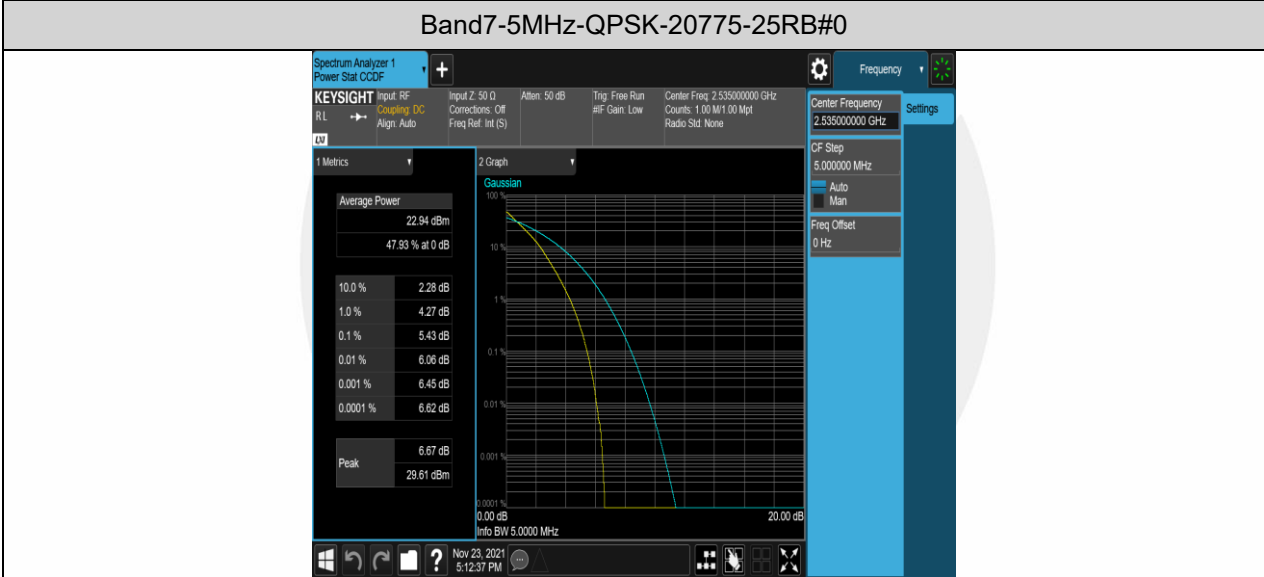


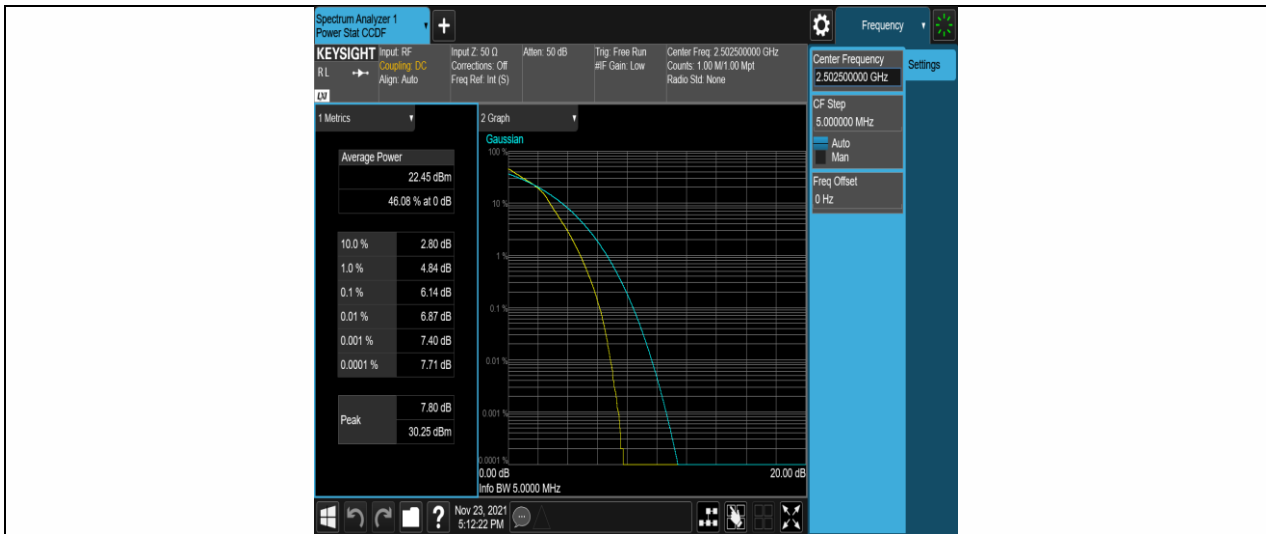
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

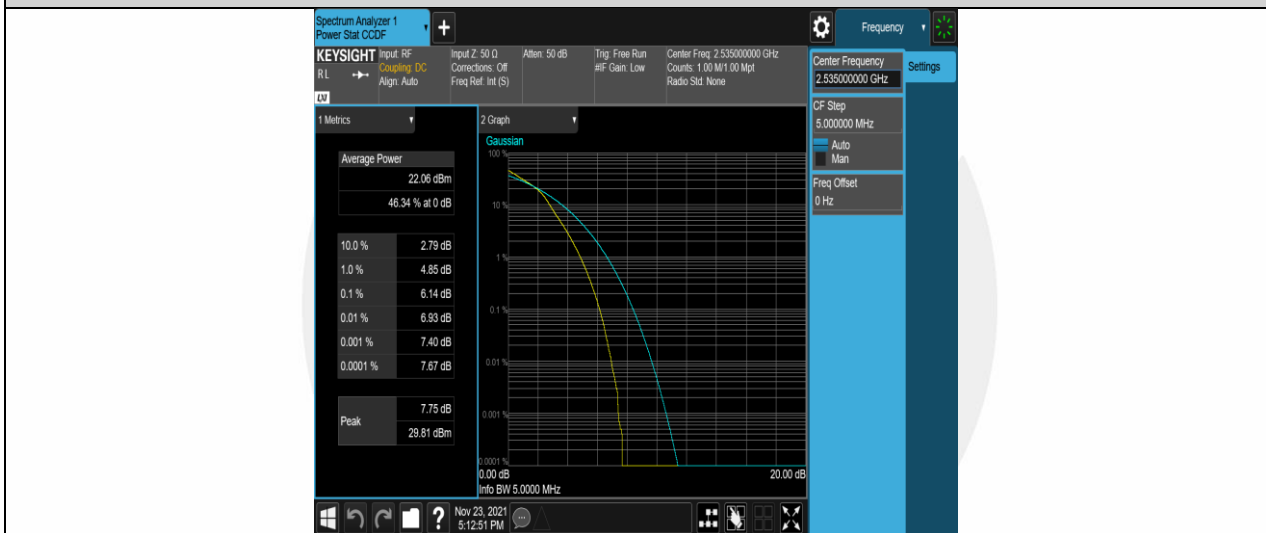
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.48	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.43	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.80	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	6.14	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	6.14	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.55	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.61	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.62	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.60	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	4.65	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	4.72	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	4.36	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.74	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.76	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.77	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	6.48	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.45	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.44	13	PASS

Test Graphs

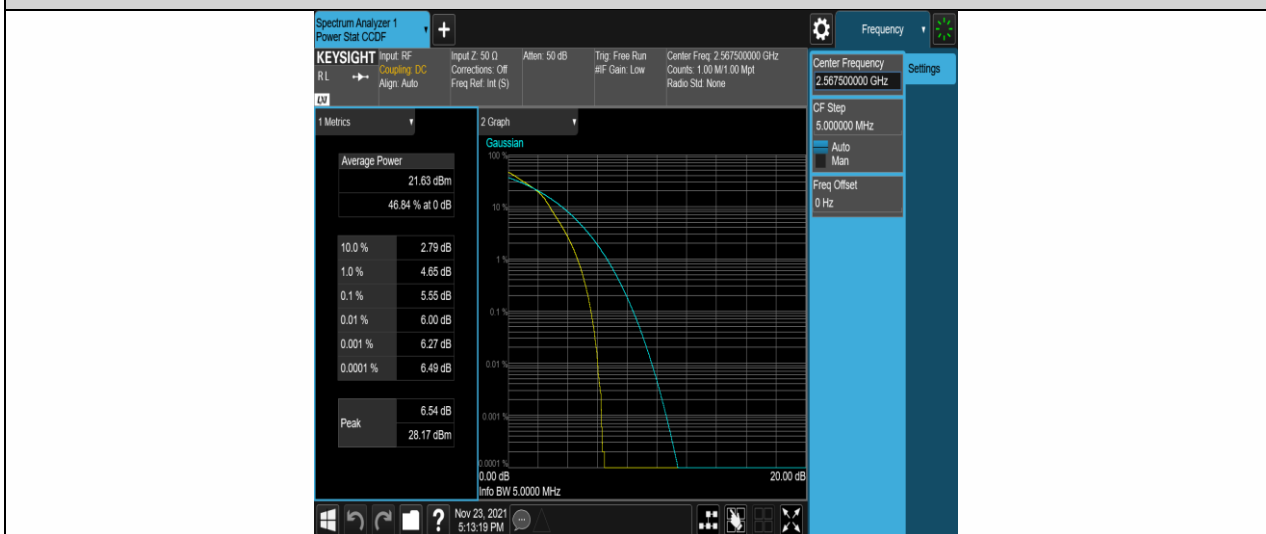




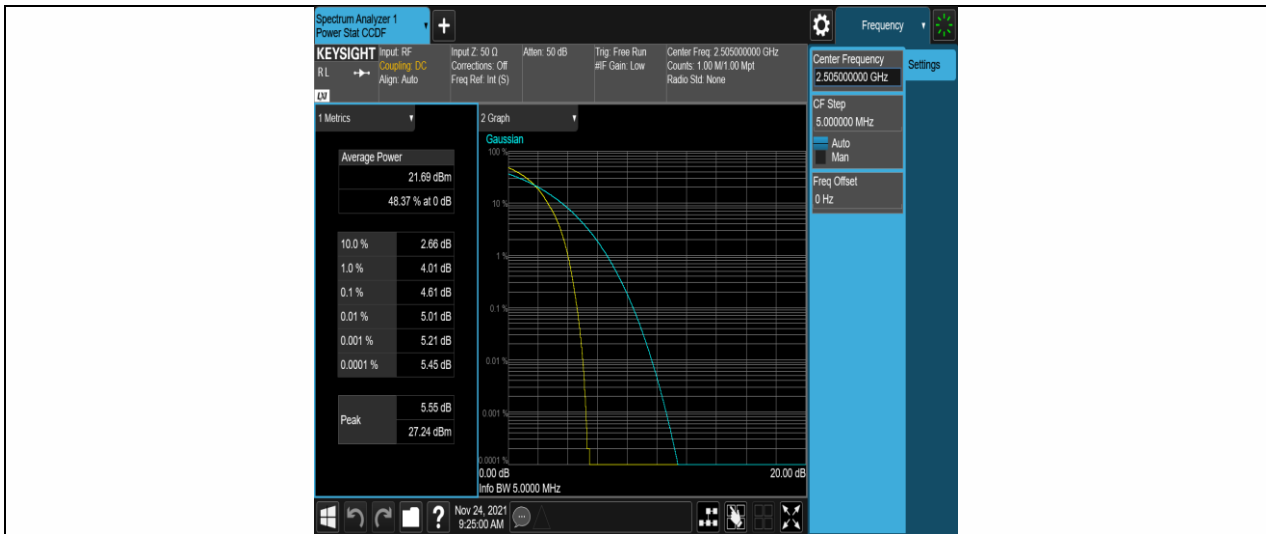
Band7-5MHz-16QAM-20775-25RB#0



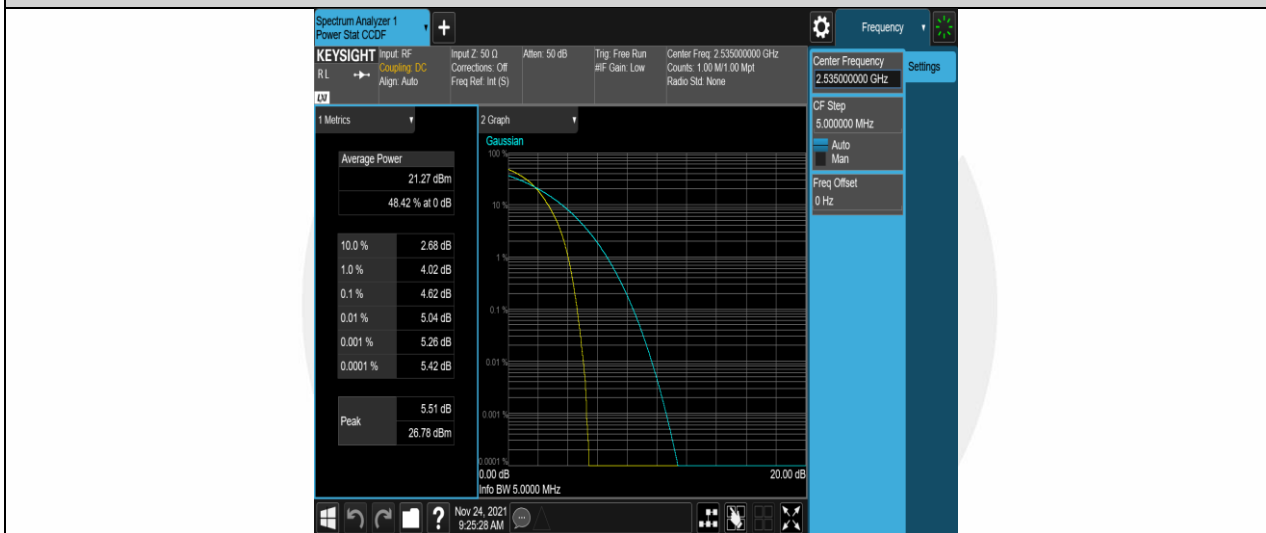
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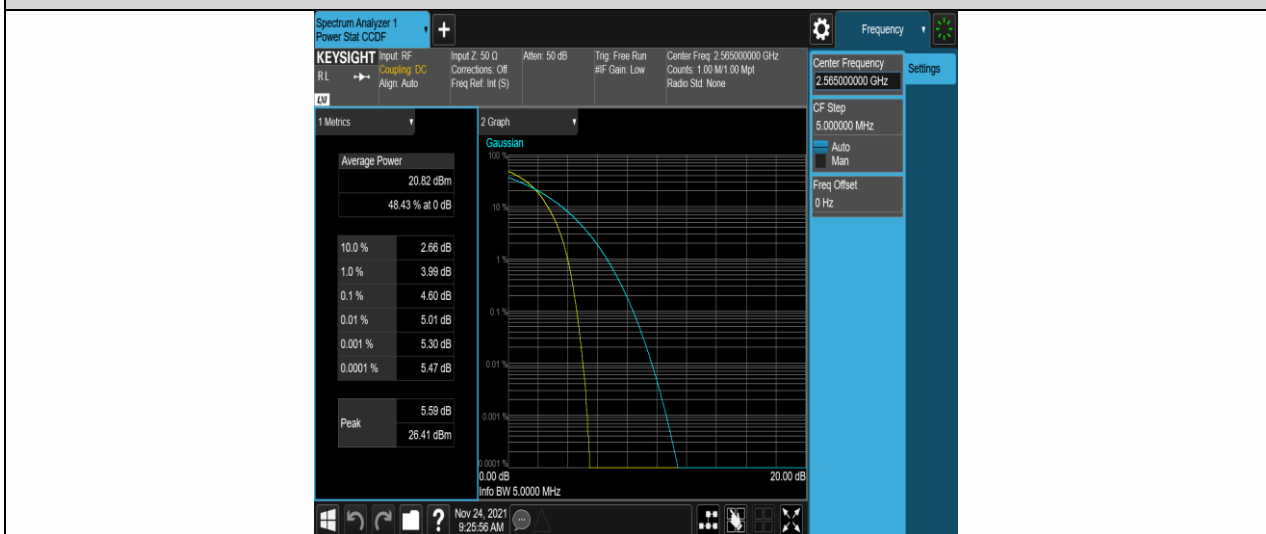
Band7-5MHz-16QAM-21425-25RB#0



Band7-10MHz-QPSK-20800-50RB#0



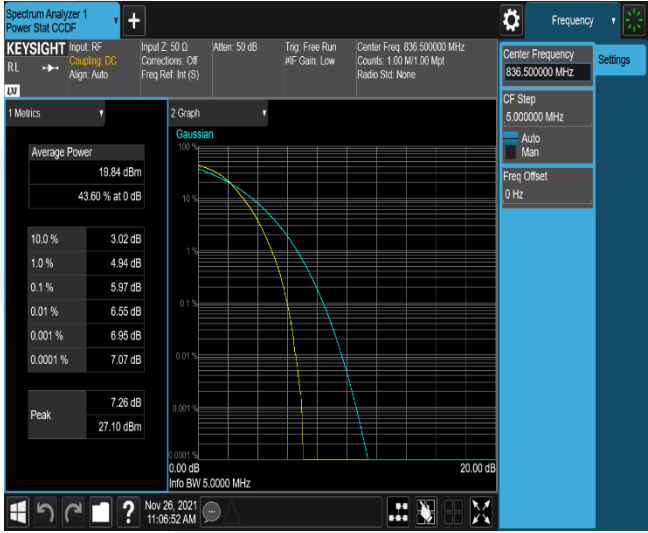
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Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21100-50RB#0



Band7-10MHz-16QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-75RB#0



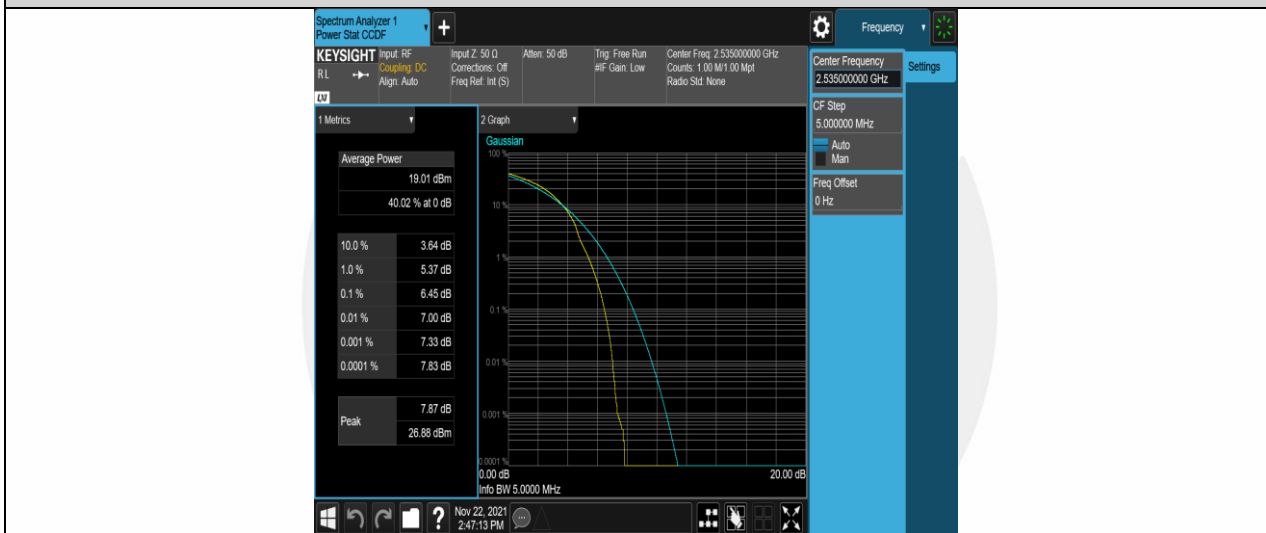
Band7-15MHz-QPSK-21100-75RB#0



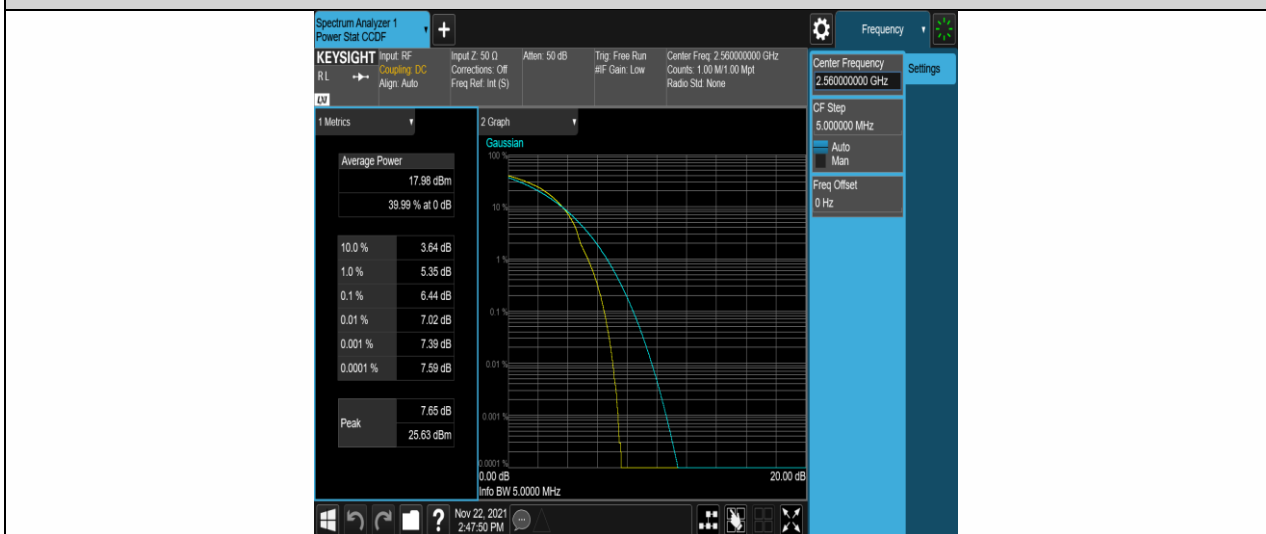
Band7-15MHz-QPSK-21375-75RB#0



Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



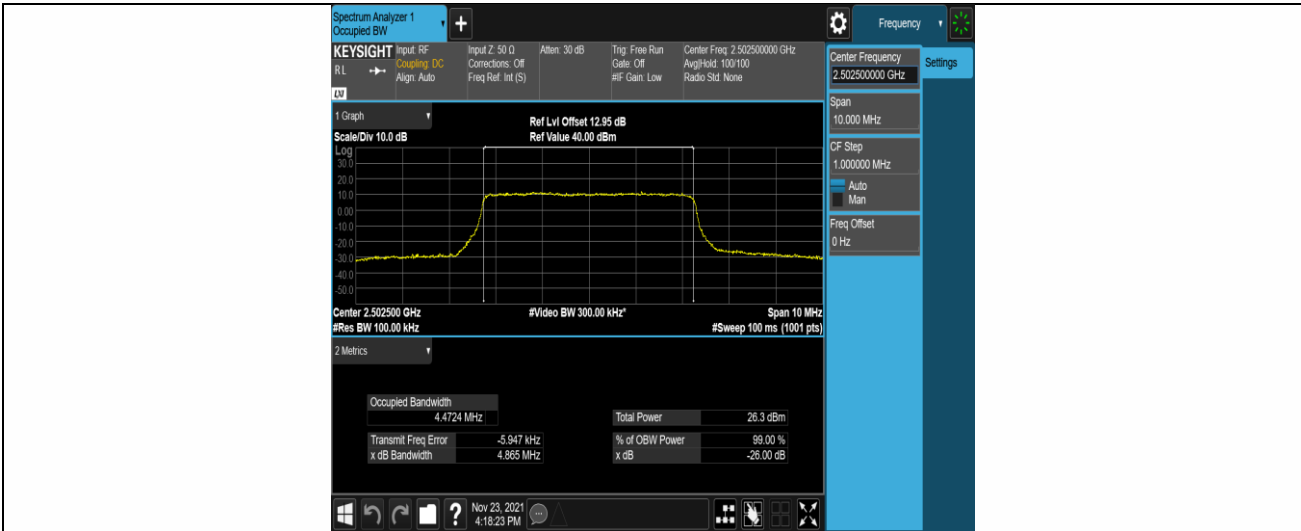
Band7-20MHz-QPSK-21350-100RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

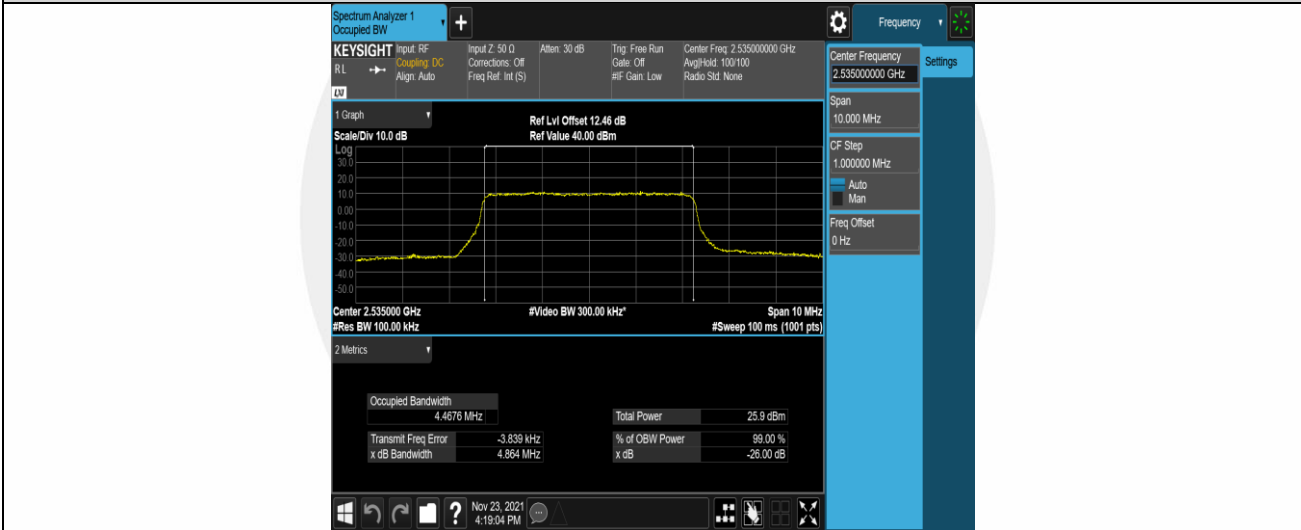
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4724	4.865	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4676	4.864	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4706	4.896	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4768	4.851	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4760	4.864	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4679	4.919	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9261	9.488	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9210	9.477	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9336	9.471	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9521	9.519	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9550	9.522	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9841	9.515	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.433	14.44	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.442	14.44	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.445	14.51	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.480	14.31	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.479	14.28	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.470	14.31	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.898	19.11	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.909	19.05	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.939	19.19	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.849	18.91	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.908	18.95	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.943	18.97	PASS

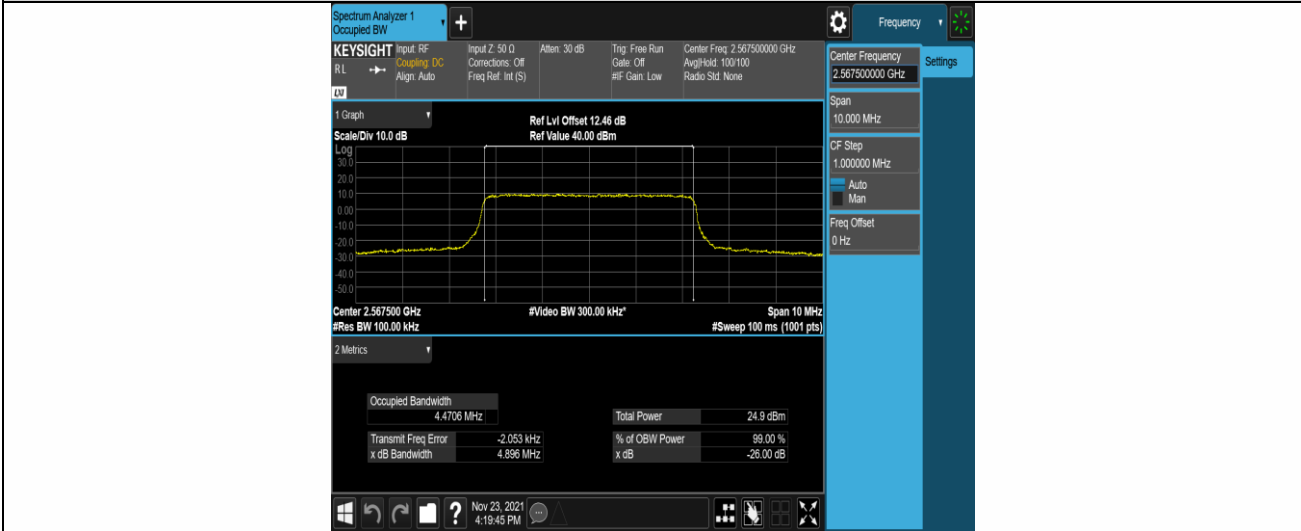
Test Graphs



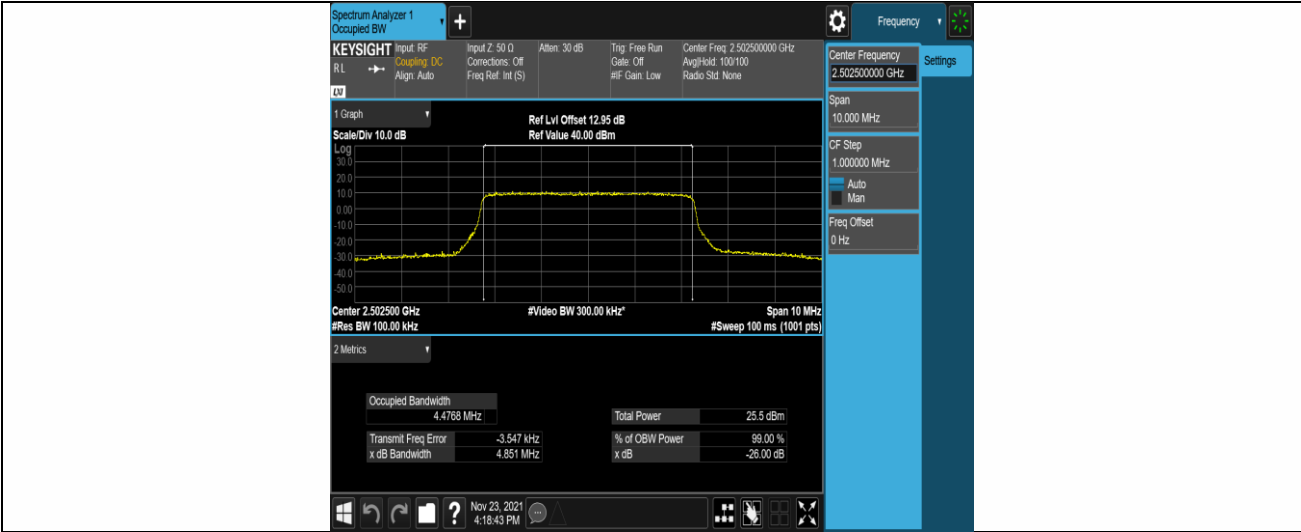
Band7-5MHz-QPSK-20775-25RB#0



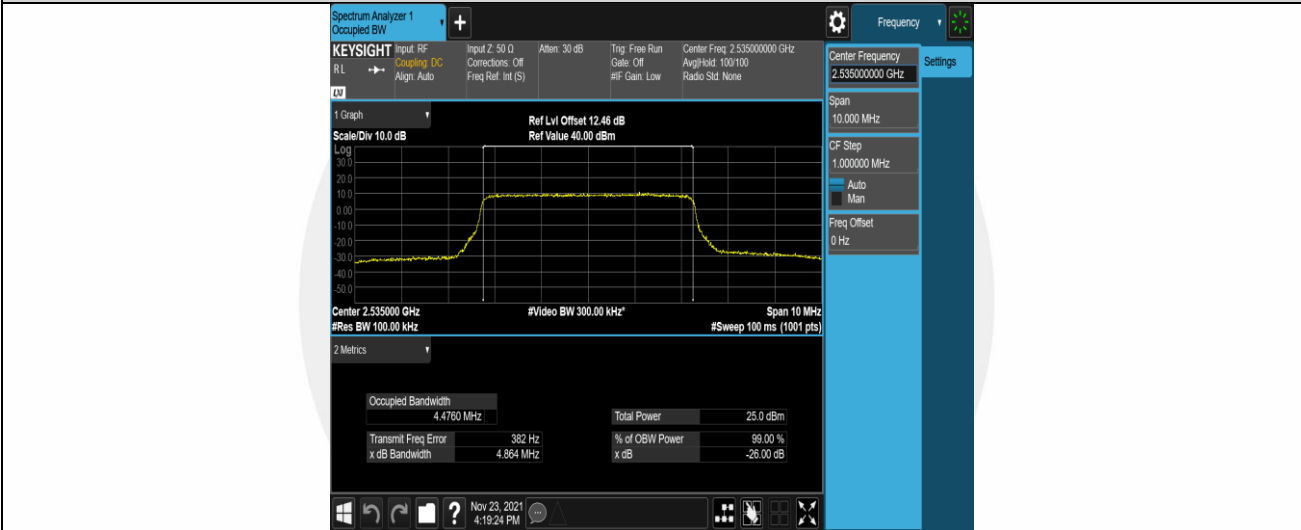
Band7-5MHz-QPSK-21100-25RB#0



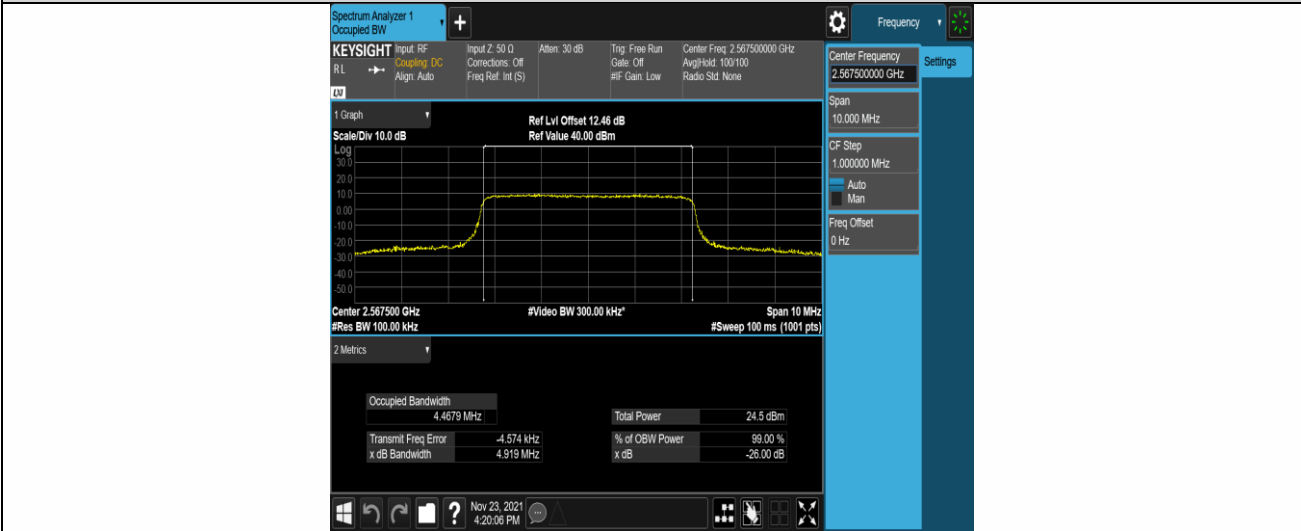
Band7-5MHz-QPSK-21425-25RB#0



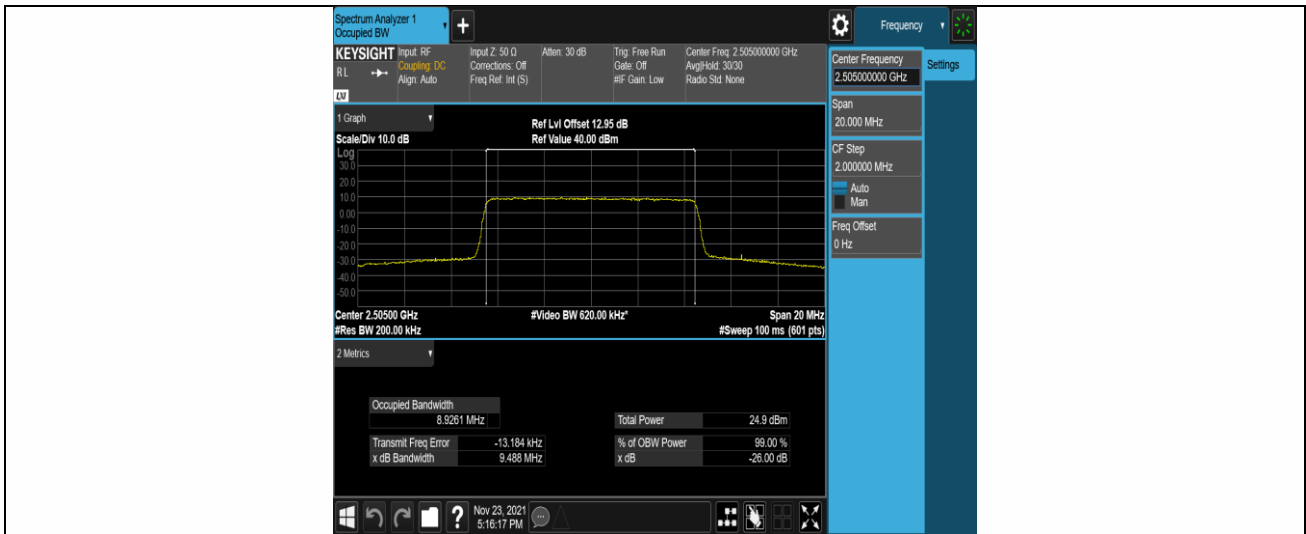
Band7-5MHz-16QAM-20775-25RB#0



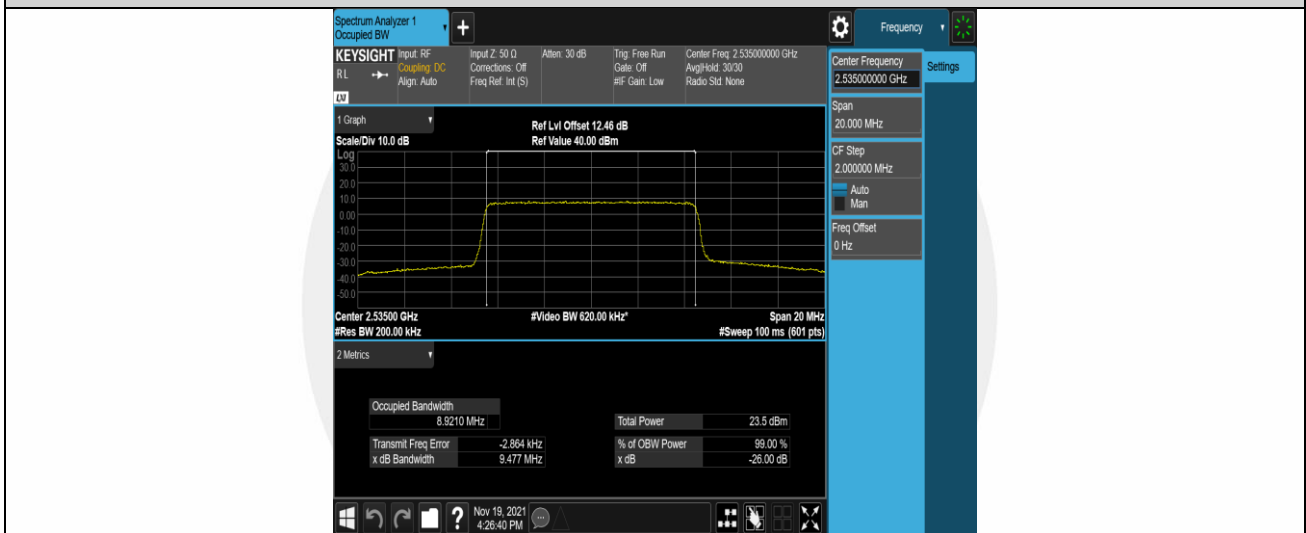
Band7-5MHz-16QAM-21100-25RB#0



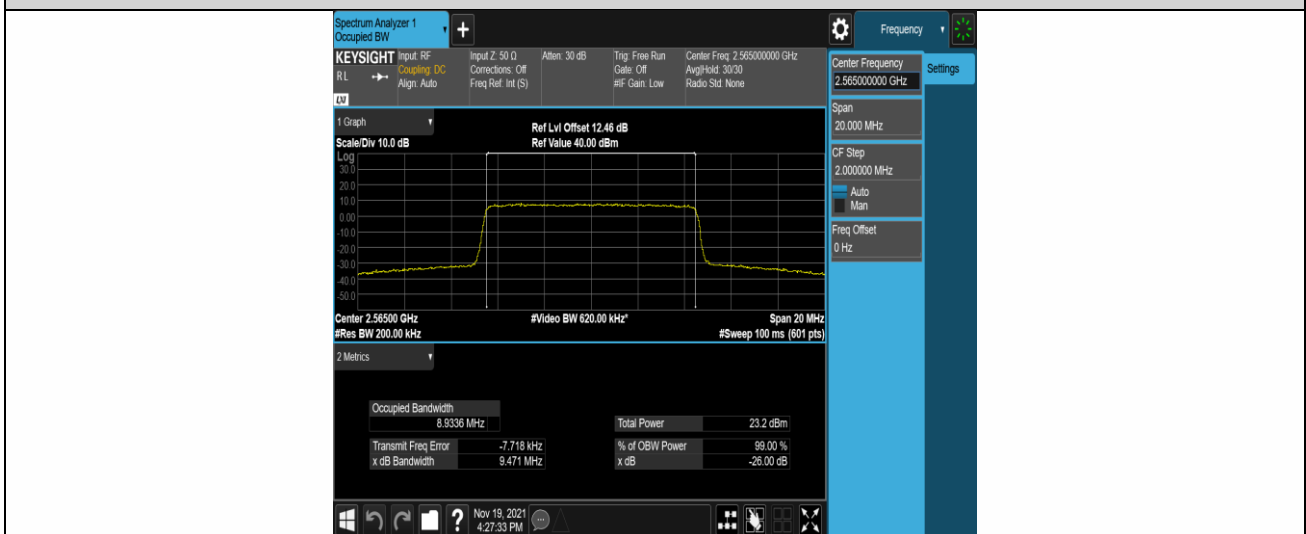
Band7-5MHz-16QAM-21425-25RB#0



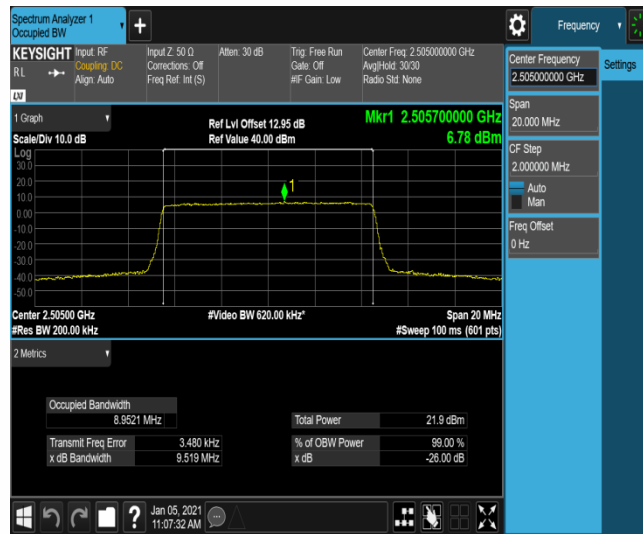
Band7-10MHz-QPSK-20800-50RB#0



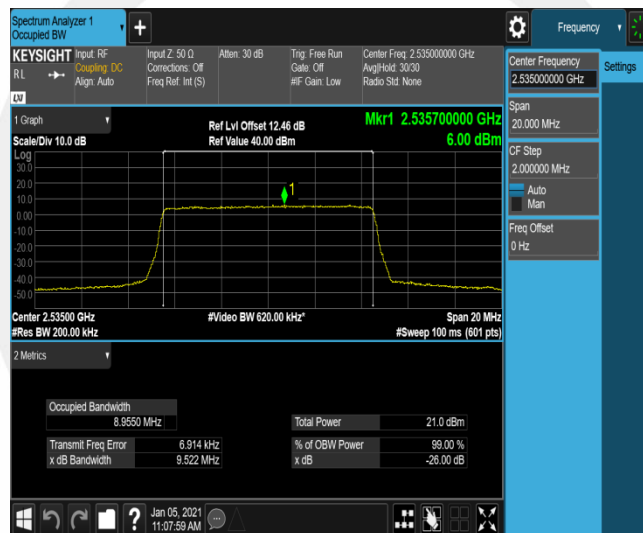
Band7-10MHz-QPSK-21100-50RB#0



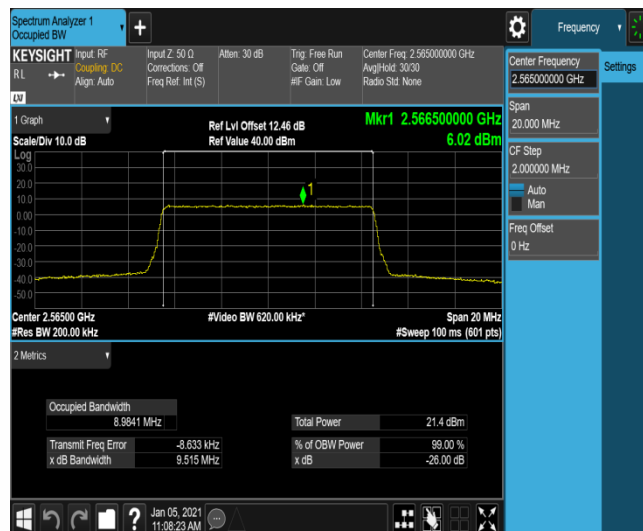
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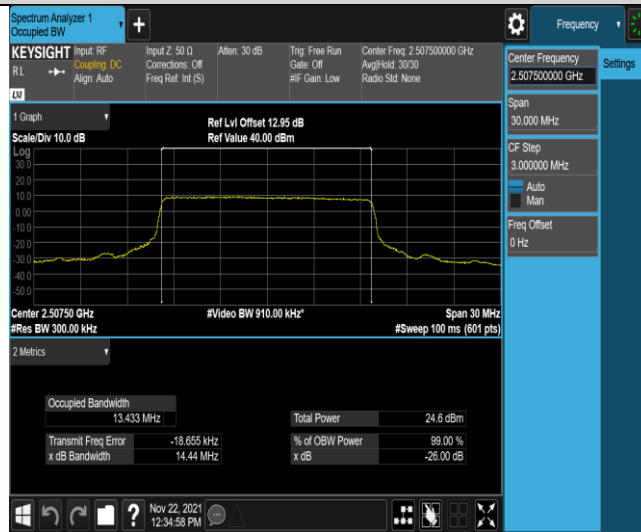
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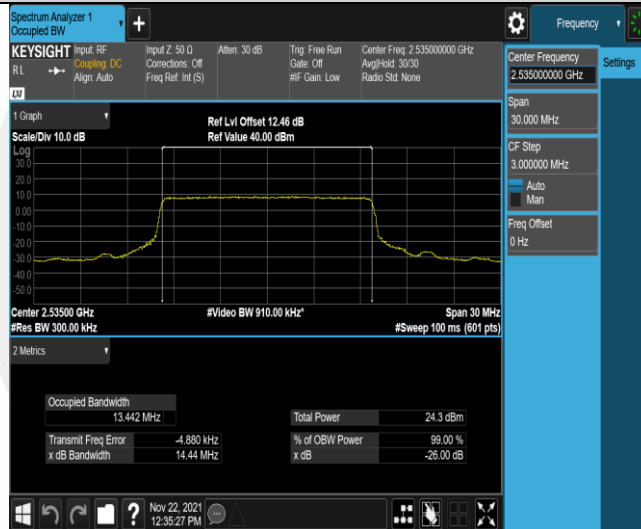
Band7-10MHz-16QAM-21100-50RB#0



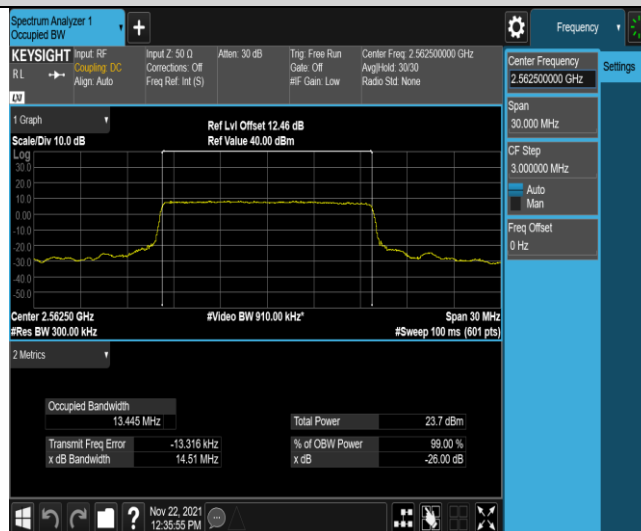
Band7-10MHz-16QAM-21400-50RB#0



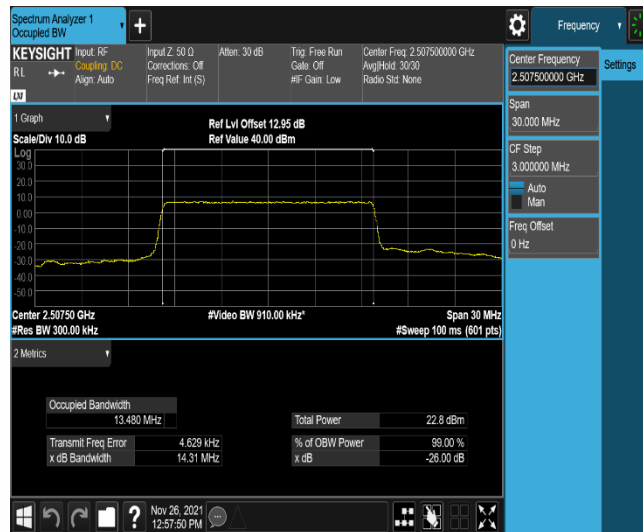
Band7-15MHz-QPSK-20825-75RB#0



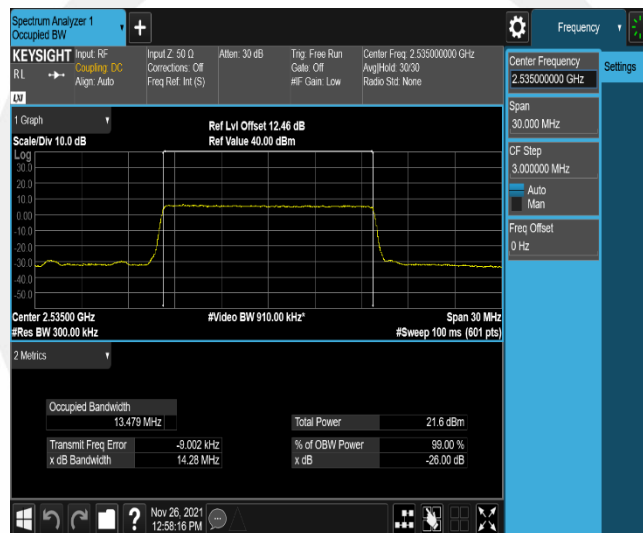
Band7-15MHz-QPSK-21100-75RB#0



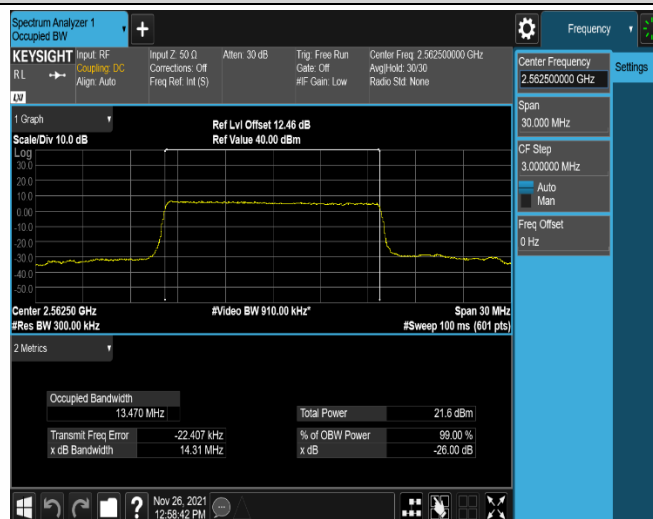
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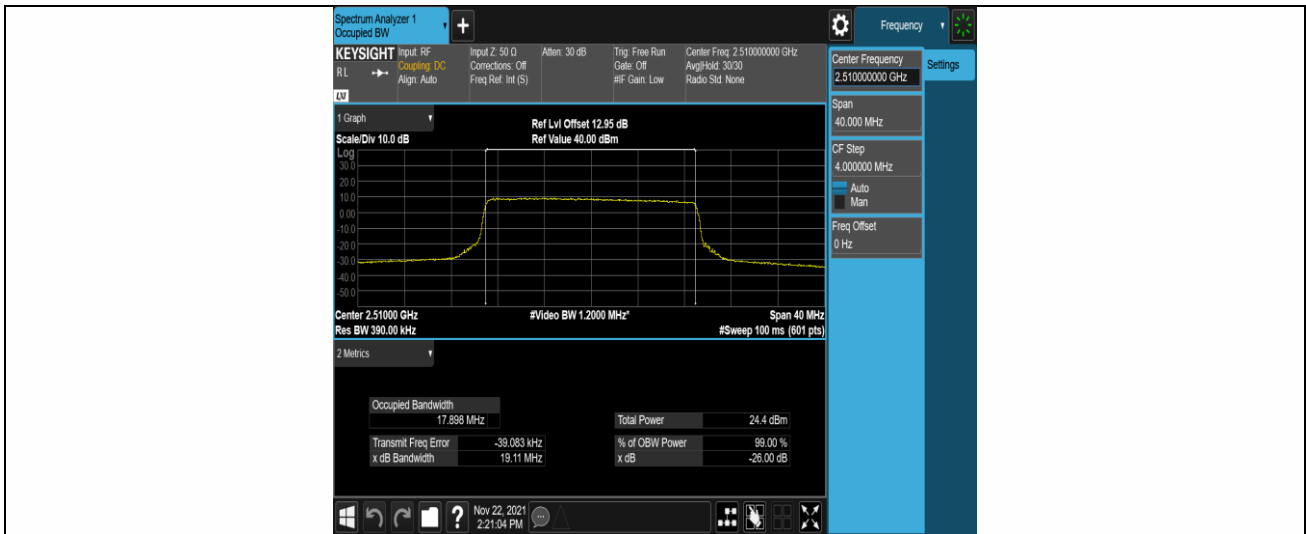
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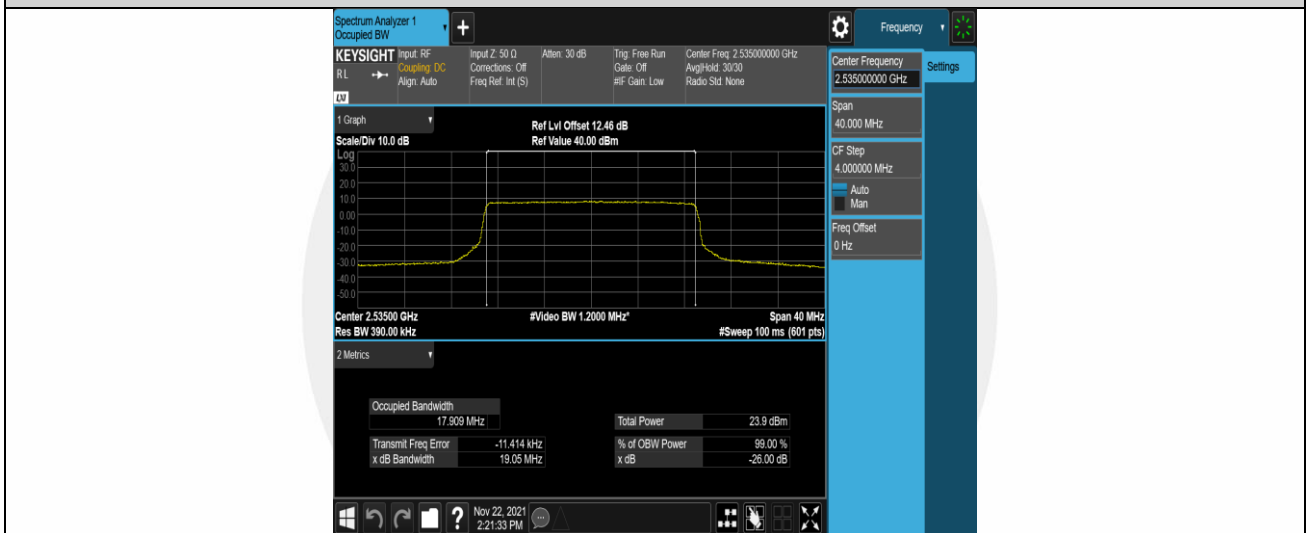
Band7-15MHz-16QAM-21100-75RB#0



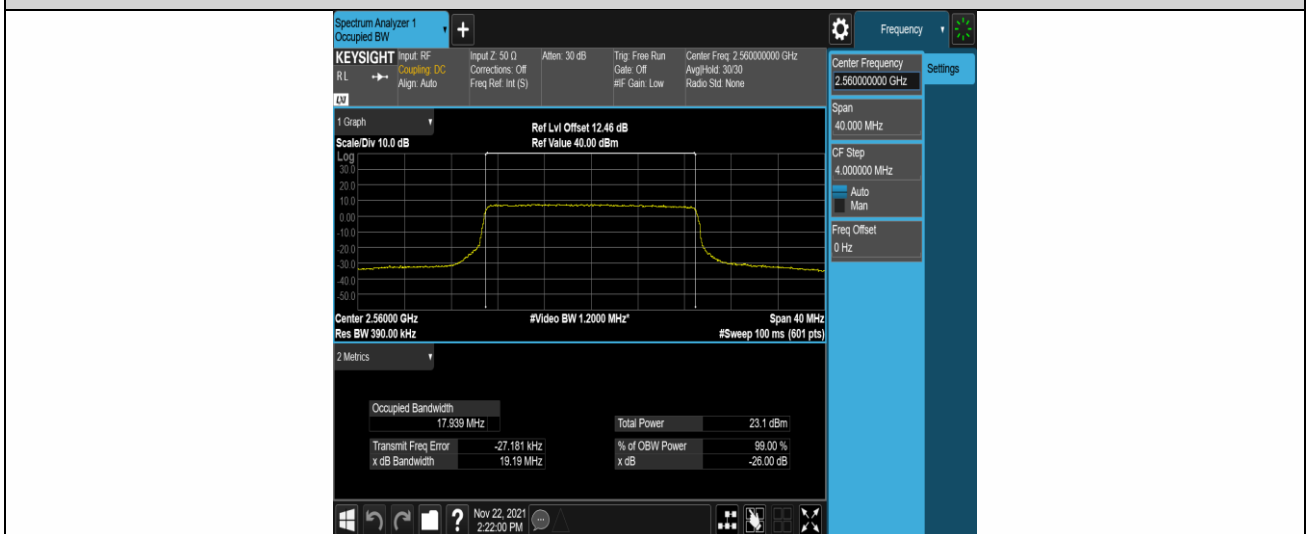
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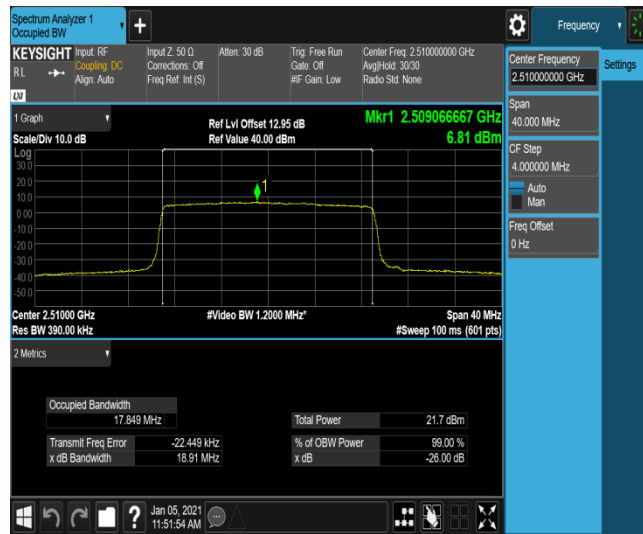
Band7-20MHz-QPSK-20850-100RB#0



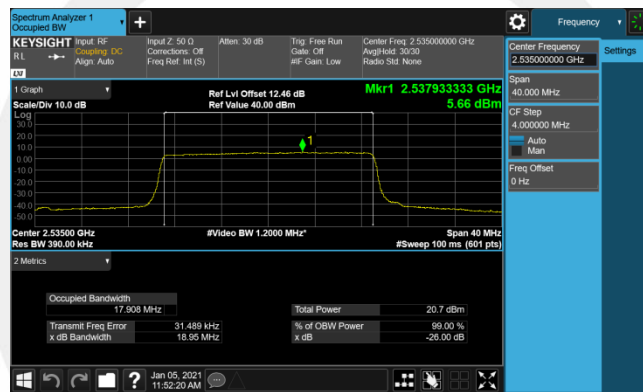
Band7-20MHz-QPSK-21100-100RB#0



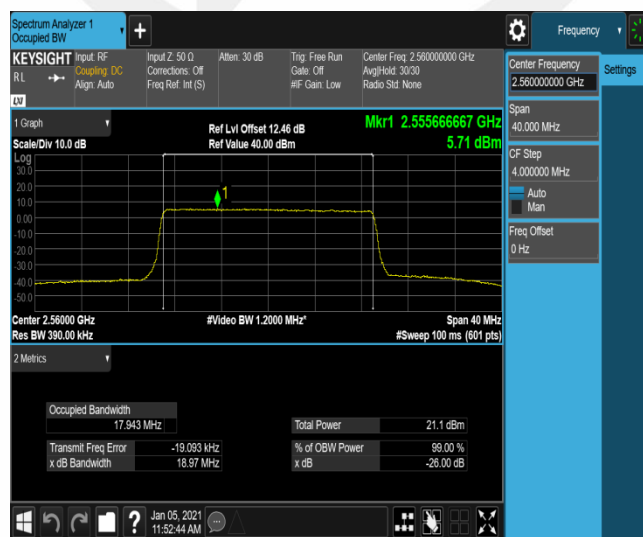
Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0

Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-50.87,-39.98,-39.96,-11.14	PASS
Band7	5MHz	QPSK	20775	1RB#24	-52.62,-31.76,-31.76,-28.92	PASS
Band7	5MHz	QPSK	20775	25RB#0	-47.86,-38.67,-32.06,-21.89	PASS
Band7	5MHz	QPSK	21425	1RB#0	-32.20,-35.47,-54.36,-54.16	PASS
Band7	5MHz	QPSK	21425	1RB#24	-14.78,-40.36,-53.78,-52.82	PASS
Band7	5MHz	QPSK	21425	25RB#0	-23.19,-29.13,-43.18,-46.83	PASS
Band7	5MHz	16QAM	20775	1RB#0	-52.12,-41.10,-41.10,-11.75	PASS
Band7	5MHz	16QAM	20775	1RB#24	-52.84,-32.17,-32.17,-29.64	PASS
Band7	5MHz	16QAM	20775	25RB#0	-47.44,-41.63,-33.08,-22.95	PASS
Band7	5MHz	16QAM	21425	1RB#0	-33.22,-34.00,-54.44,-54.29	PASS
Band7	5MHz	16QAM	21425	1RB#24	-15.24,-40.10,-53.66,-50.14	PASS
Band7	5MHz	16QAM	21425	25RB#0	-23.06,-29.00,-44.18,-47.12	PASS
Band7	10MHz	QPSK	20800	1RB#0	-47.36,-38.96,-39.92,-23.74	PASS
Band7	10MHz	QPSK	20800	1RB#49	-49.81,-30.77,-44.89,-41.13	PASS
Band7	10MHz	QPSK	20800	50RB#0	-48.52,-39.14,-36.18,-32.96	PASS
Band7	10MHz	QPSK	21400	1RB#0	-44.69,-47.19,-33.56,-50.62	PASS
Band7	10MHz	QPSK	21400	1RB#49	-26.64,-39.37,-39.71,-51.04	PASS
Band7	10MHz	QPSK	21400	50RB#0	-30.64,-32.82,-37.95,-46.30	PASS
Band7	15MHz	QPSK	20825	1RB#0	-37.28,-37.07,-21.14,-10.95	PASS
Band7	15MHz	QPSK	20825	1RB#74	-25.33,-40.21,-29.73,-30.98	PASS
Band7	15MHz	QPSK	20825	75RB#0	-38.68,-35.24,-28.77,-22.76	PASS
Band7	15MHz	QPSK	21375	1RB#0	-35.20,-37.74,-31.80,-50.11	PASS
Band7	15MHz	QPSK	21375	1RB#74	-14.41,-25.55,-35.74,-50.14	PASS
Band7	15MHz	QPSK	21375	75RB#0	-24.98,-29.14,-34.48,-44.20	PASS
Band7	20MHz	QPSK	20850	1RB#0	-38.85,-33.84,-23.74,-13.62	PASS
Band7	20MHz	QPSK	20850	1RB#99	-23.48,-39.17,-34.71,-29.03	PASS
Band7	20MHz	QPSK	20850	100RB#0	-34.05,-32.91,-28.71,-23.30	PASS
Band7	20MHz	QPSK	21350	1RB#0	-34.94,-39.99,-30.86,-49.44	PASS
Band7	20MHz	QPSK	21350	1RB#99	-15.55,-27.53,-33.72,-49.35	PASS
Band7	20MHz	QPSK	21350	100RB#0	-26.10,-31.25,-34.99,-47.26	PASS

Test Graphs



Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-1RB#24



Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21425-1RB#0



Band7-5MHz-QPSK-21425-1RB#24



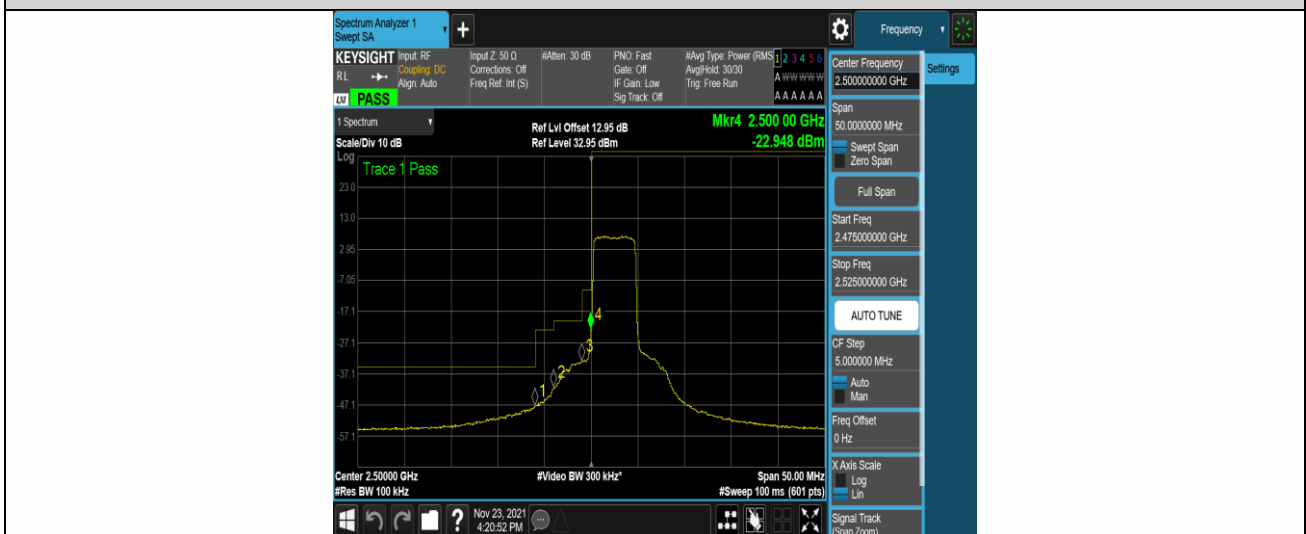
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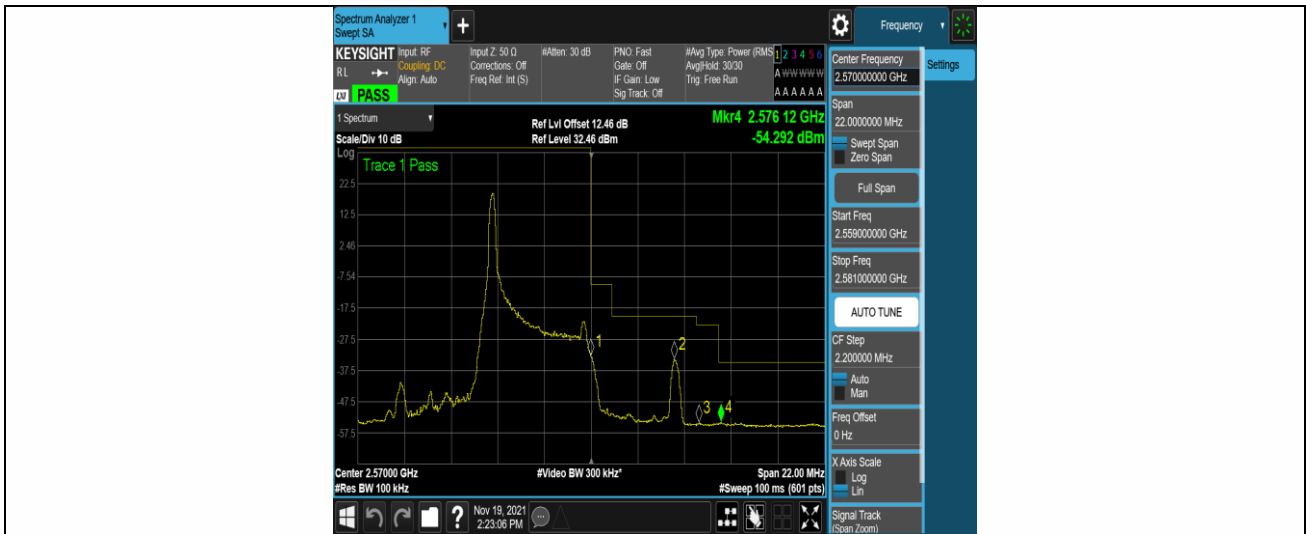
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Band7-5MHz-16QAM-20775-1RB#24



Band7-5MHz-16QAM-20775-25RB#0



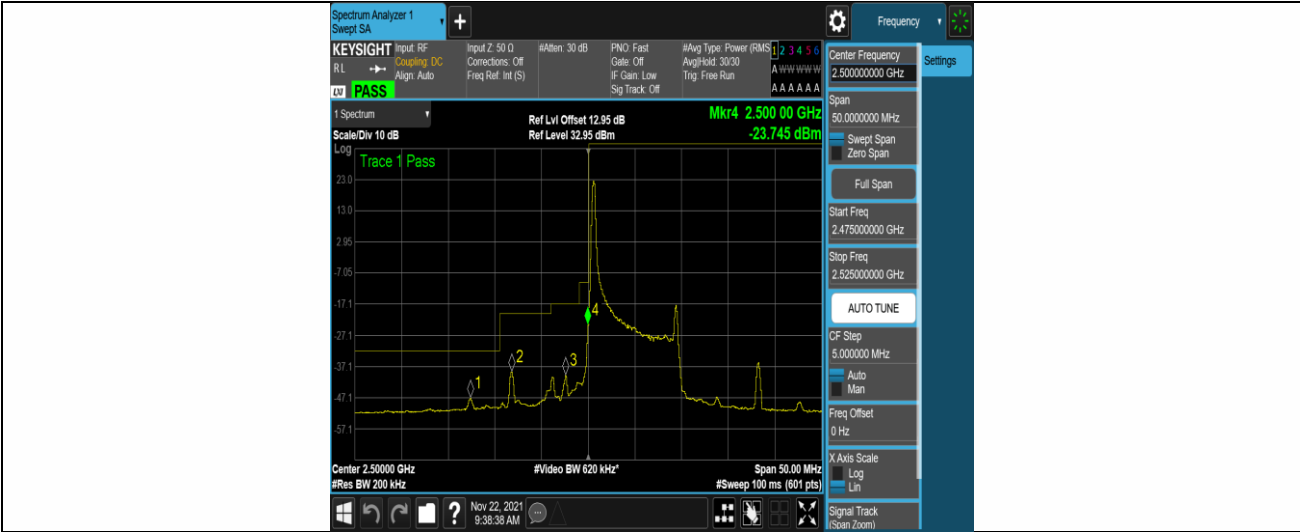
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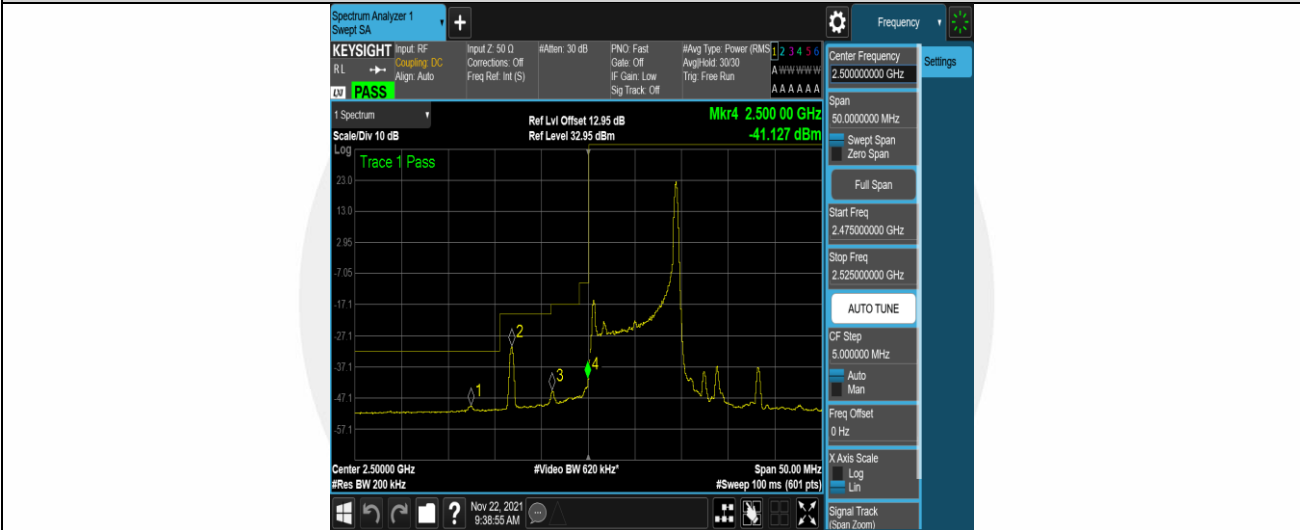
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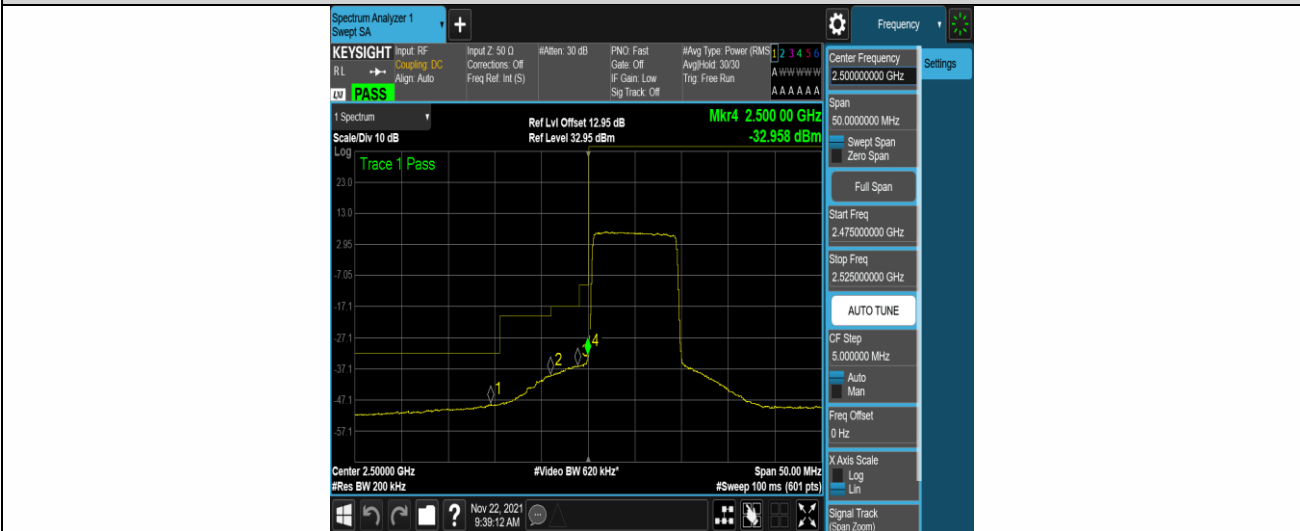
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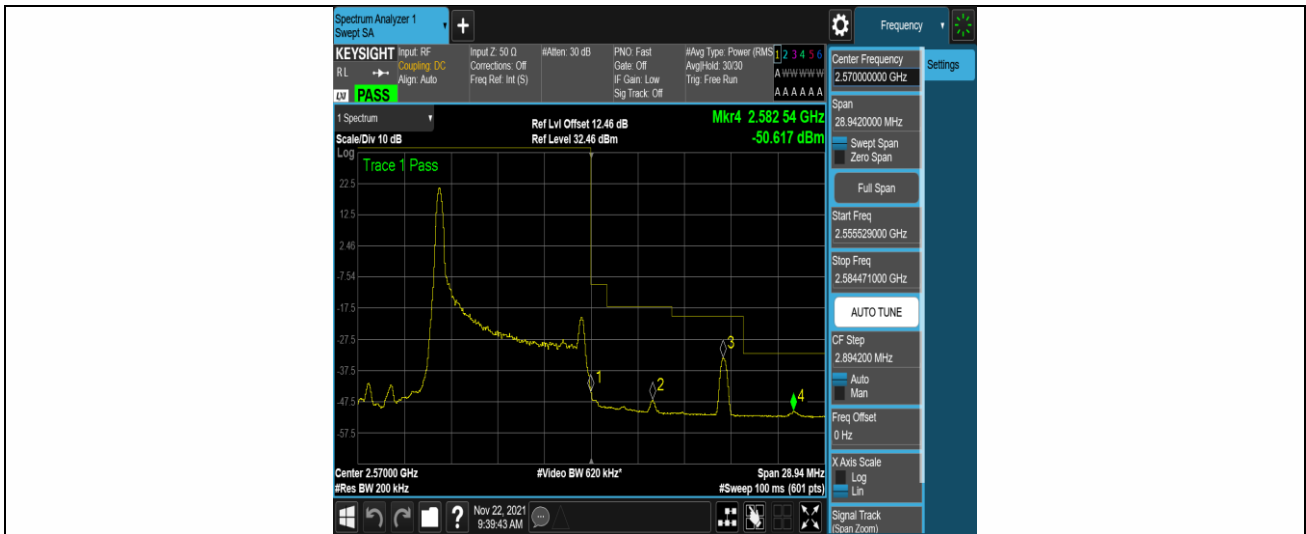
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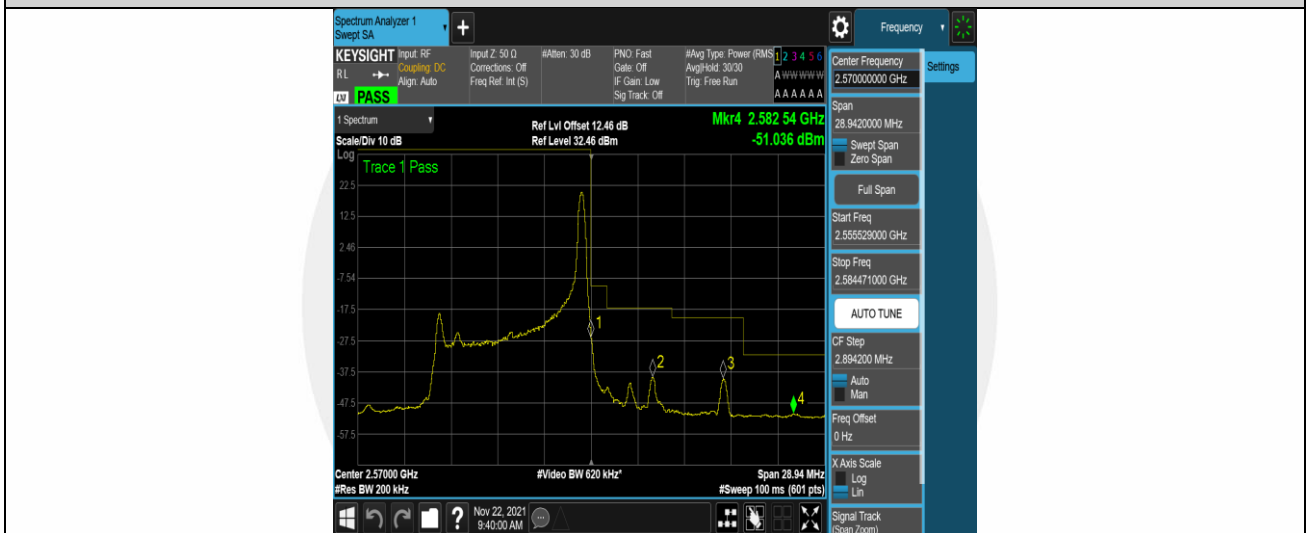
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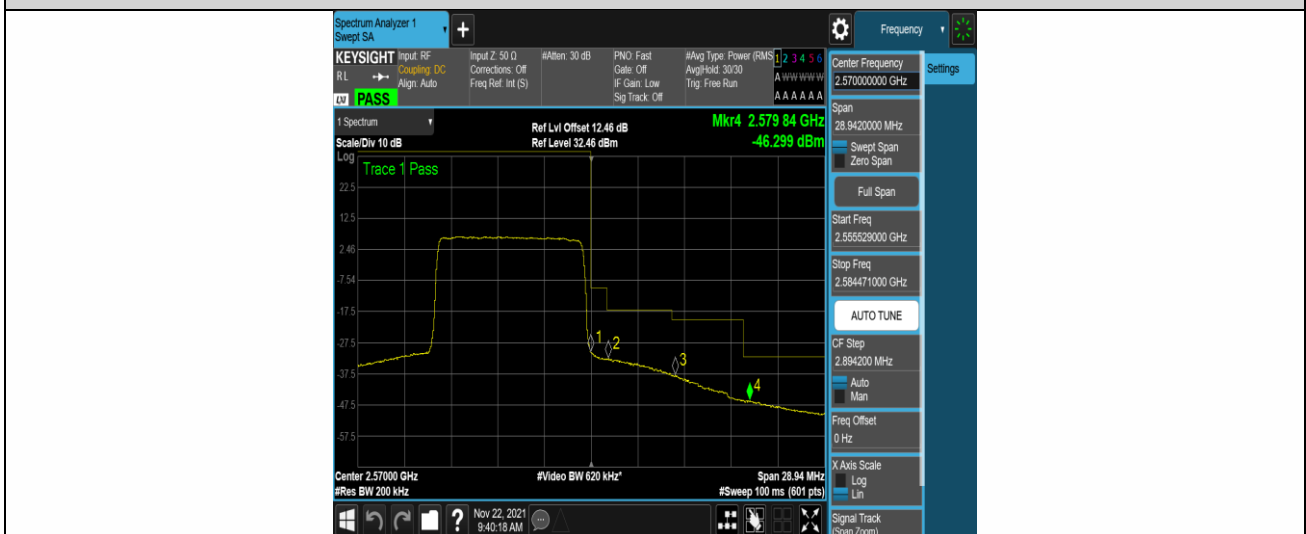
Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21400-1RB#0



Band7-10MHz-QPSK-21400-1RB#49



Band7-10MHz-QPSK-21400-50RB#0