

# LTE Band VII Test Data

**Product Name** : 4G LTE router

**Model Number** : DWR-M921, DWR-M922, DWR-M923, DWR-M924,  
DWR-M925, DWR-M926, DWR-M927, DWR-M928,  
DWR-M929, NL-430, NL-432

**Test model** : DWR-M921

**FCC ID** : KA2WRM921-1

**Applicant** : Link Corporation  
14420 Myford Road, Suite 100, Irvine, California,  
United States 92606

**Manufacturer** : Link Corporation  
14420 Myford Road, Suite 100, Irvine, California,  
United States 92606

**Trademark** : D-Link

## Appendix A: RF POWER OUTPUT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.60	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.45	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.39	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.55	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.55	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.48	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.46	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.59	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.71	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.07	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.81	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.81	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.80	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.61	PASS
Band7	5MHz	QPSK	21425	1RB#12	21.79	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.58	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.69	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.70	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.60	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.66	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.48	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.55	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.41	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.53	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.52	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.54	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.45	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.69	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.76	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.62	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.79	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.79	PASS

Band7	5MHz	16QAM	21100	12RB#13	19.76	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.80	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.47	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.55	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.39	PASS
Band7	5MHz	16QAM	21425	12RB#0	19.75	PASS
Band7	5MHz	16QAM	21425	12RB#6	19.77	PASS
Band7	5MHz	16QAM	21425	12RB#13	19.76	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.64	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.44	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.53	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.30	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.63	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.60	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.58	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.56	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.57	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.78	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.83	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.97	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.97	PASS
Band7	10MHz	QPSK	21100	25RB#25	21.01	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.83	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.28	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.95	PASS
Band7	10MHz	QPSK	21400	1RB#49	21.80	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.64	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.64	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.69	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.66	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.70	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.92	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.49	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.46	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.63	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.53	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.58	PASS

Band7	10MHz	16QAM	21100	1RB#0	20.79	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.10	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.03	PASS
Band7	10MHz	16QAM	21100	25RB#0	19.93	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.92	PASS
Band7	10MHz	16QAM	21100	25RB#25	19.96	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.90	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.64	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.06	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.58	PASS
Band7	10MHz	16QAM	21400	25RB#0	19.64	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.75	PASS
Band7	10MHz	16QAM	21400	25RB#25	19.90	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.57	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.39	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.43	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.28	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.64	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.62	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.20	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.58	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.47	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.71	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.95	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.63	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.82	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.83	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.89	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.29	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.51	PASS
Band7	15MHz	QPSK	21375	1RB#74	21.52	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.66	PASS
Band7	15MHz	QPSK	21375	38RB#18	20.76	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.52	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.65	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.63	PASS
Band7	15MHz	16QAM	20825	1RB#38	20.57	PASS

Band7	15MHz	16QAM	20825	1RB#74	20.46	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.49	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.51	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.48	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.54	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.71	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.32	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.98	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.57	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.75	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.95	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.85	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.49	PASS
Band7	15MHz	16QAM	21375	1RB#38	20.47	PASS
Band7	15MHz	16QAM	21375	1RB#74	20.58	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.51	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.53	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.45	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.69	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.45	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.91	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.37	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.53	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.60	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.66	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.56	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.56	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.07	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.74	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.74	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.81	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.89	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.82	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.44	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.63	PASS
Band7	20MHz	QPSK	21350	1RB#99	21.66	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.67	PASS

Band7	20MHz	QPSK	21350	50RB#25	20.68	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.64	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.66	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.28	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.17	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.15	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.60	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.58	PASS
Band7	20MHz	16QAM	20850	50RB#50	19.63	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.62	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.60	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.46	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.84	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.83	PASS
Band7	20MHz	16QAM	21100	50RB#25	19.93	PASS
Band7	20MHz	16QAM	21100	50RB#50	19.97	PASS
Band7	20MHz	16QAM	21100	100RB#0	19.79	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.10	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.23	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.29	PASS
Band7	20MHz	16QAM	21350	50RB#0	19.59	PASS
Band7	20MHz	16QAM	21350	50RB#25	19.59	PASS
Band7	20MHz	16QAM	21350	50RB#50	19.76	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.65	PASS

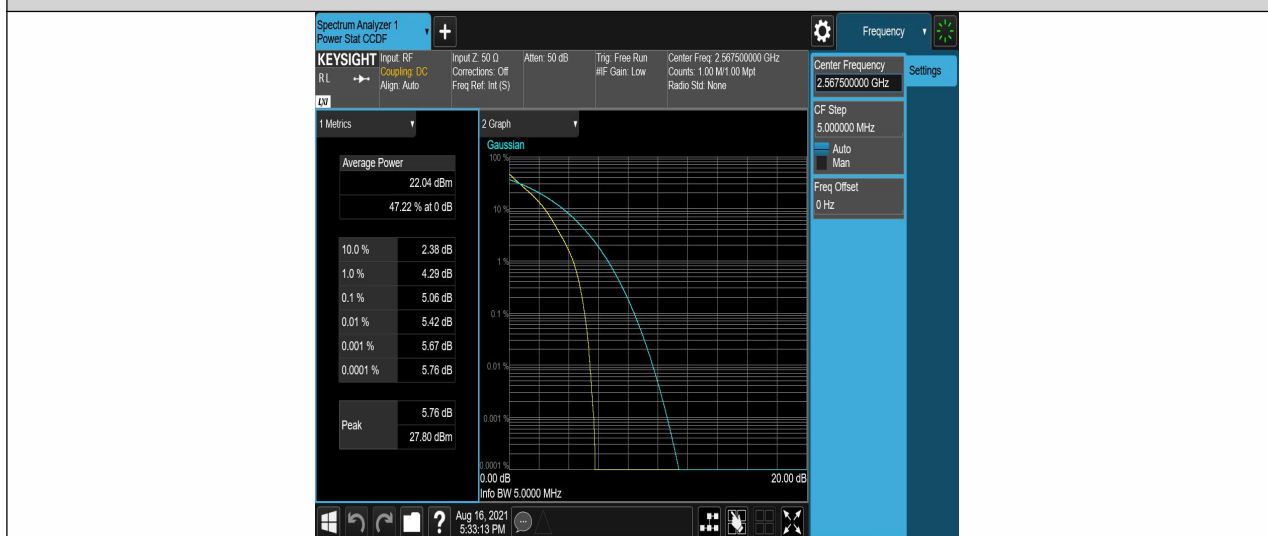


## Appendix B: Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	5.02	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	5.11	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	5.06	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.84	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.93	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.85	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.59	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.60	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.56	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	6.05	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	6.06	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	6.05	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.74	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	5.74	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	6.82	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	6.78	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	6.74	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	6.81	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	6.45	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	6.43	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	6.44	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	7.16	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	7.14	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	7.13	13	PASS

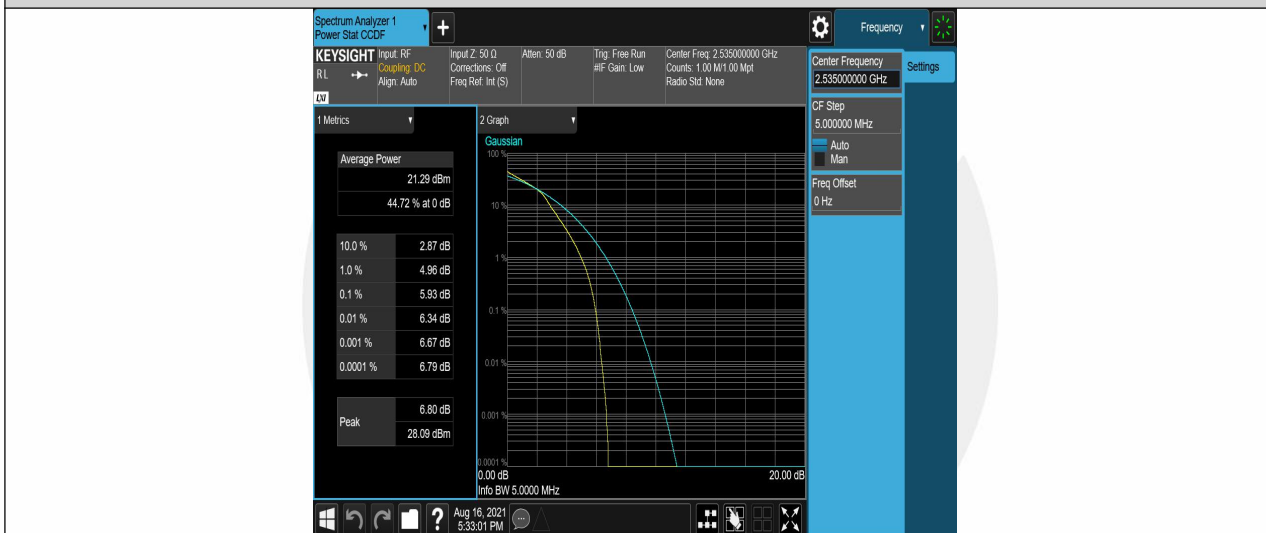
## Test Graphs



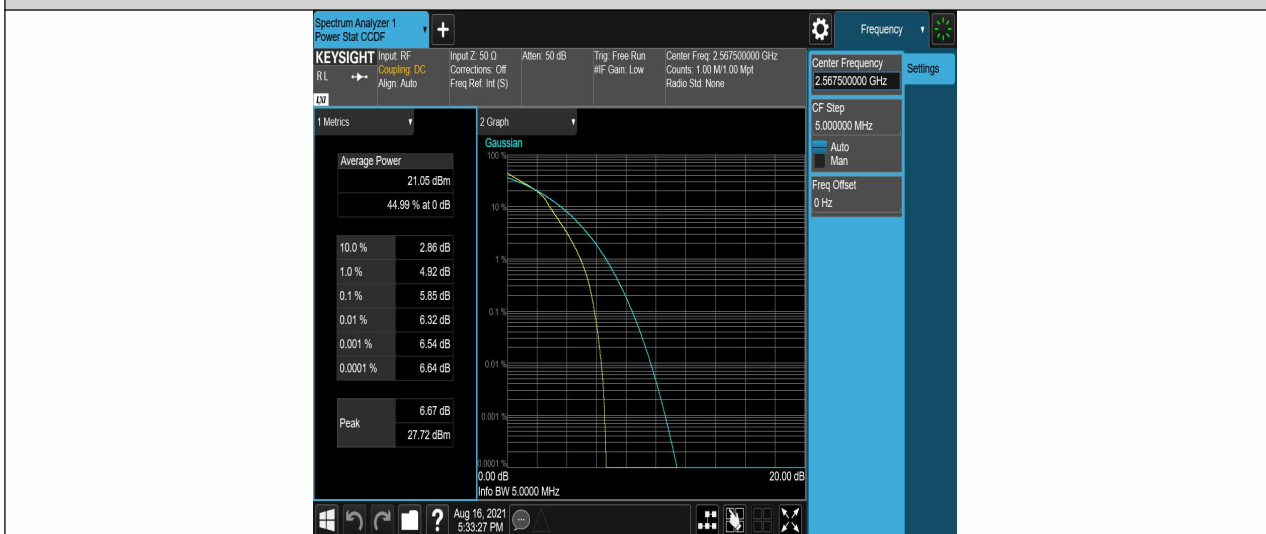




Band7-5MHz-16QAM-20775-25RB#0



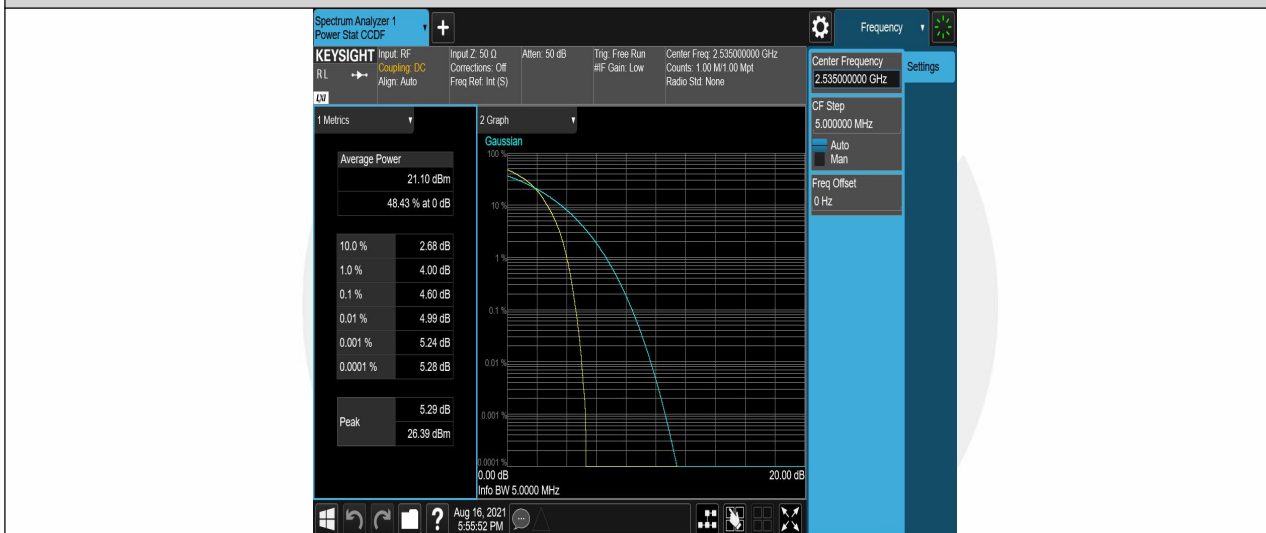
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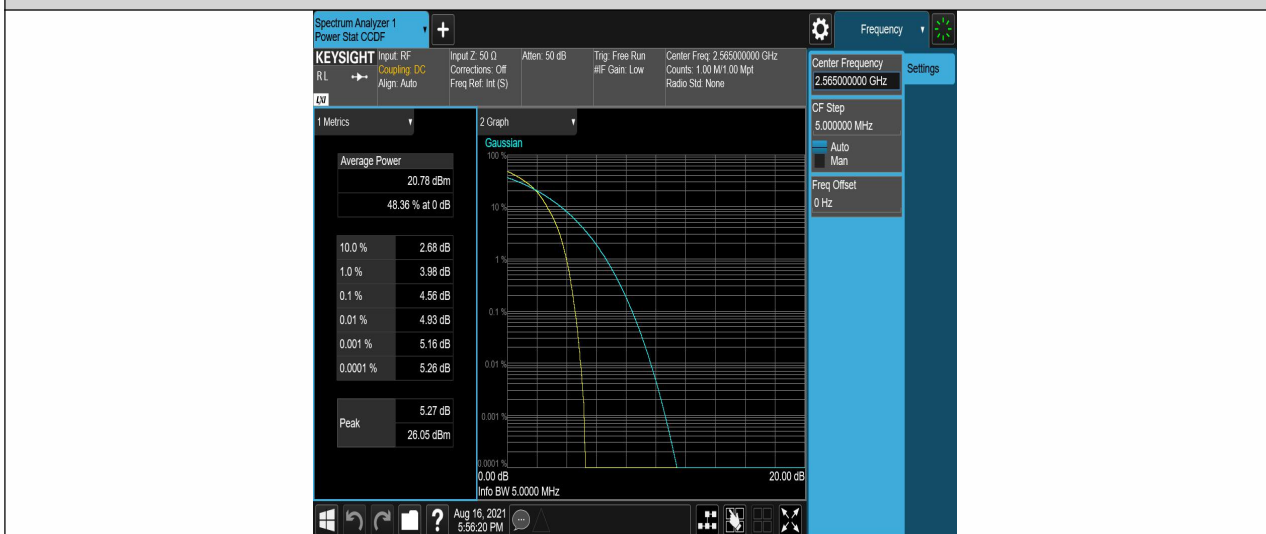
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**Band7-10MHz-QPSK-20800-50RB#0**



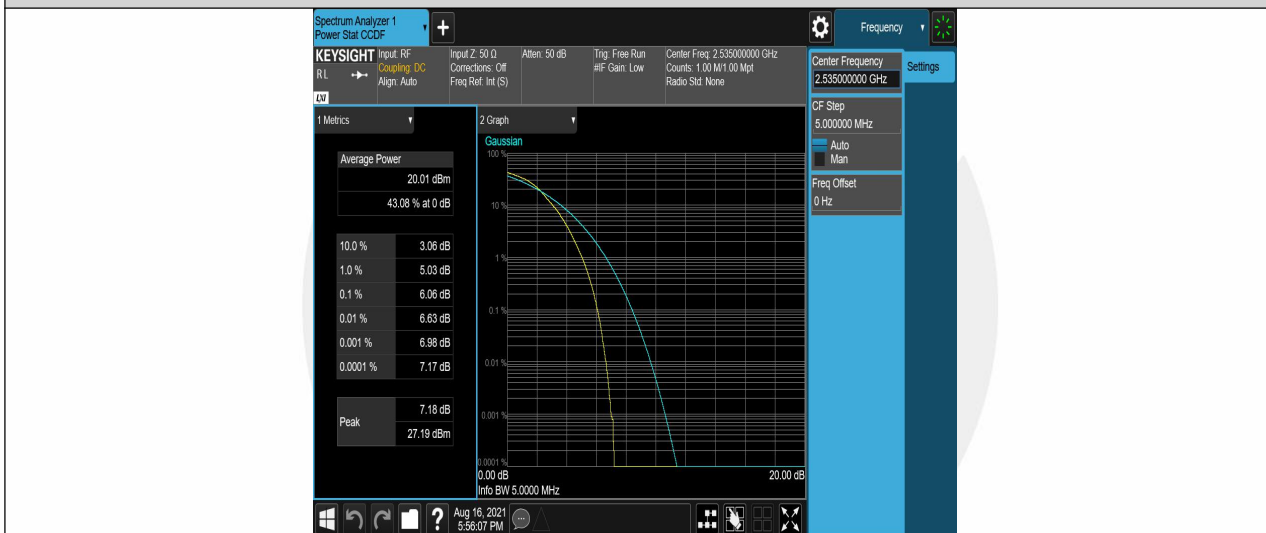
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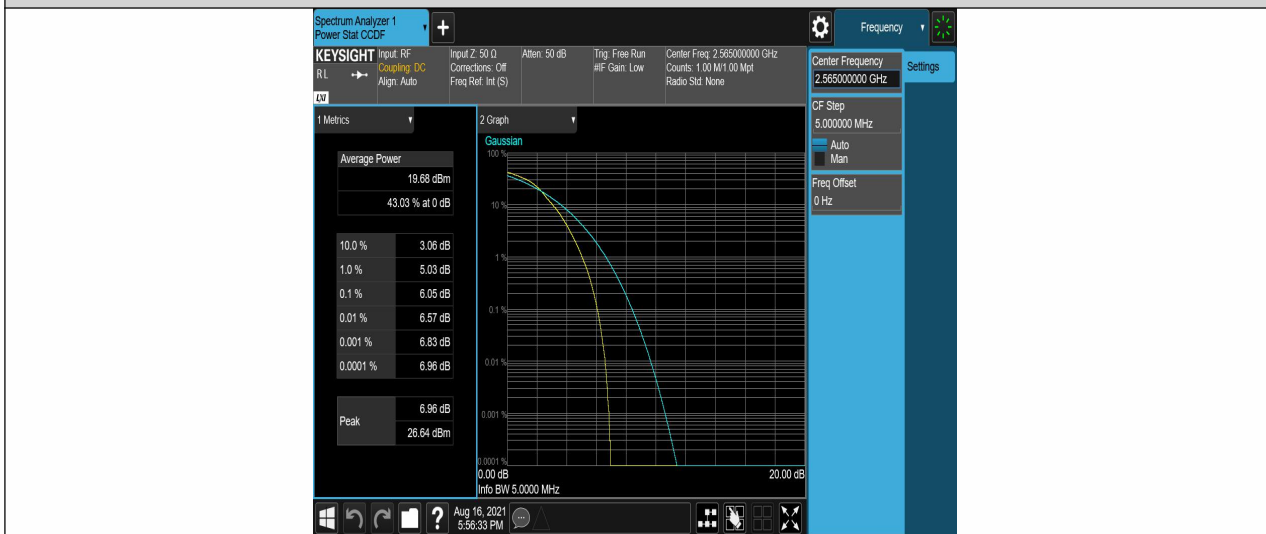
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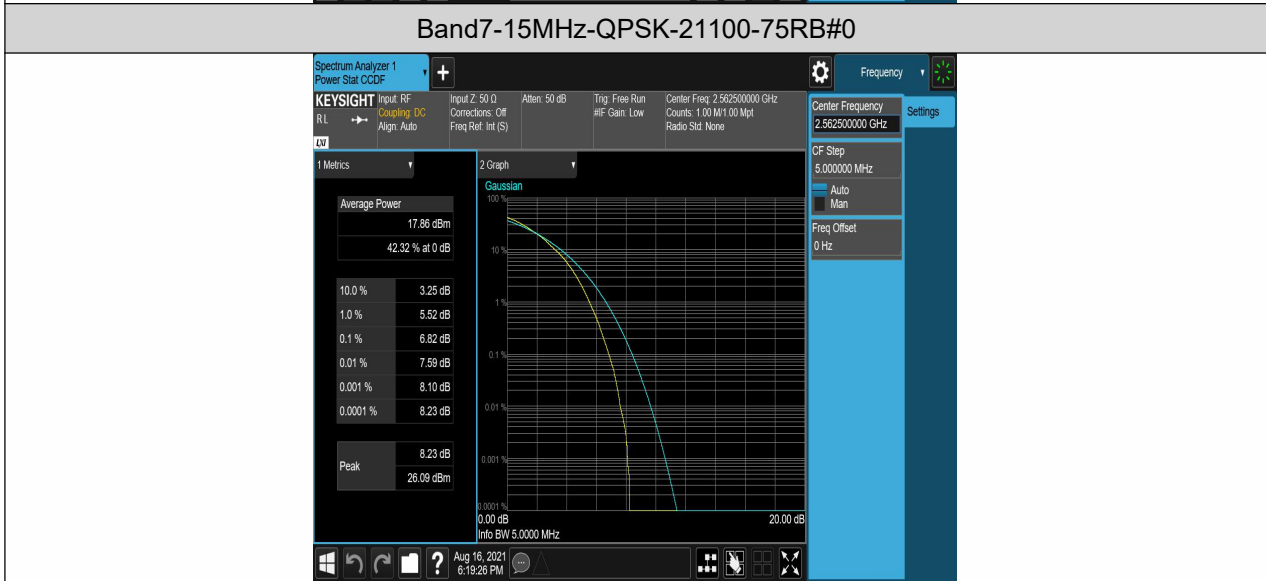
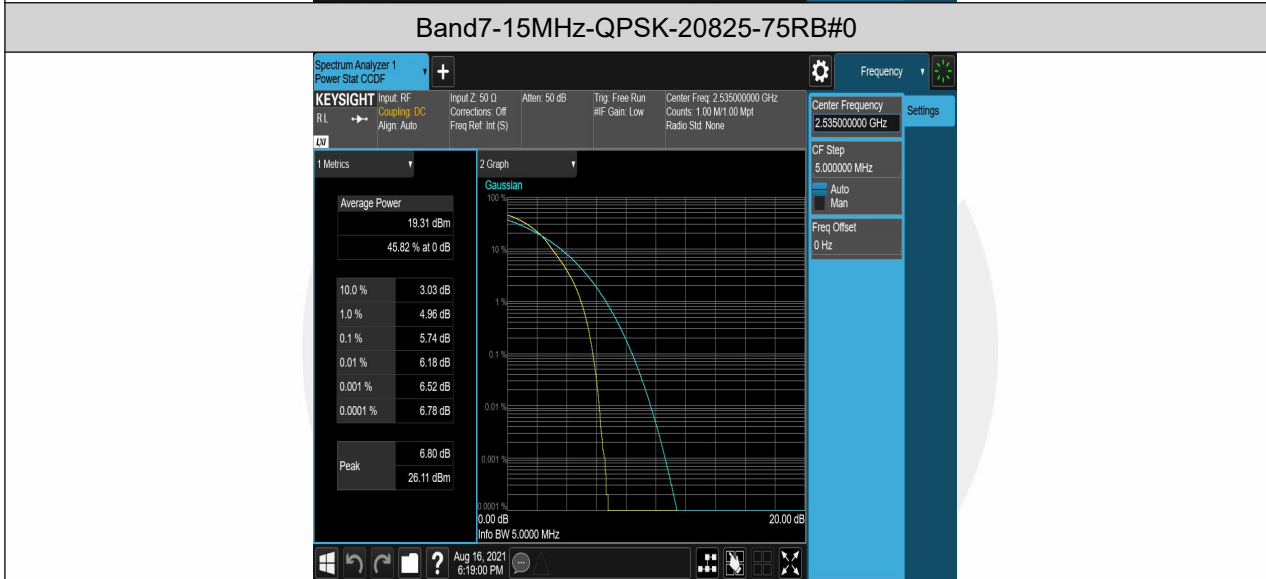
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**Band7-10MHz-16QAM-21100-50RB#0**

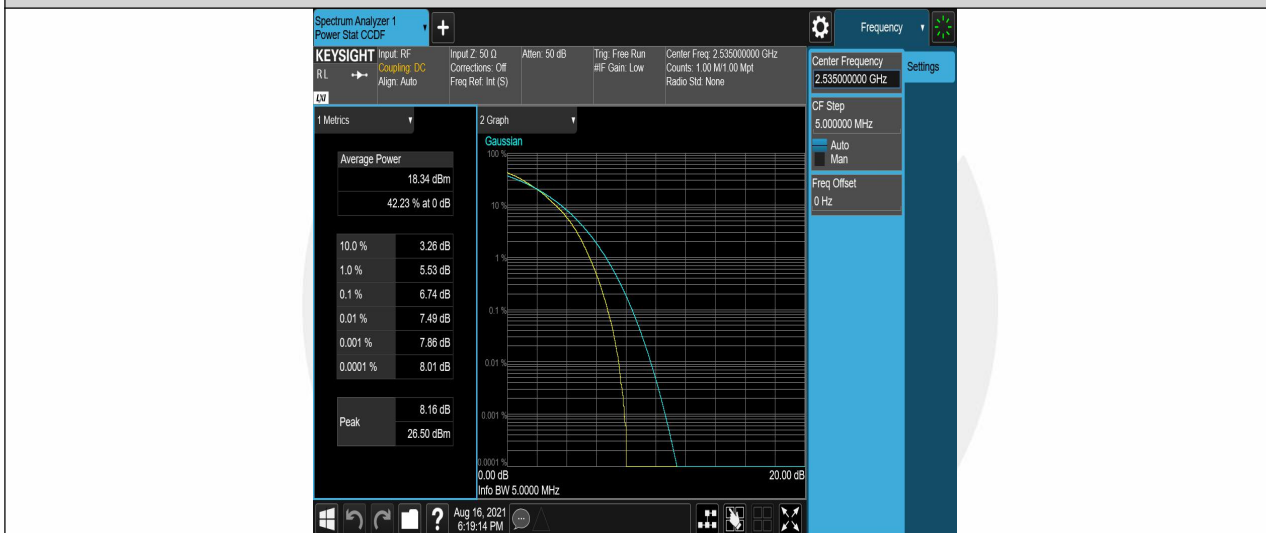


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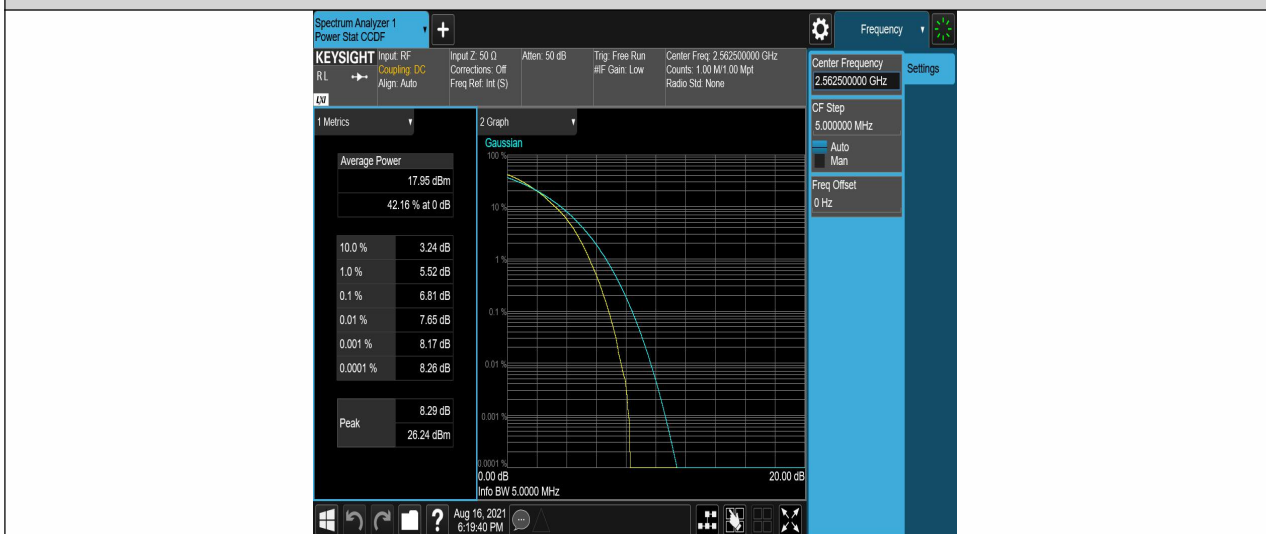




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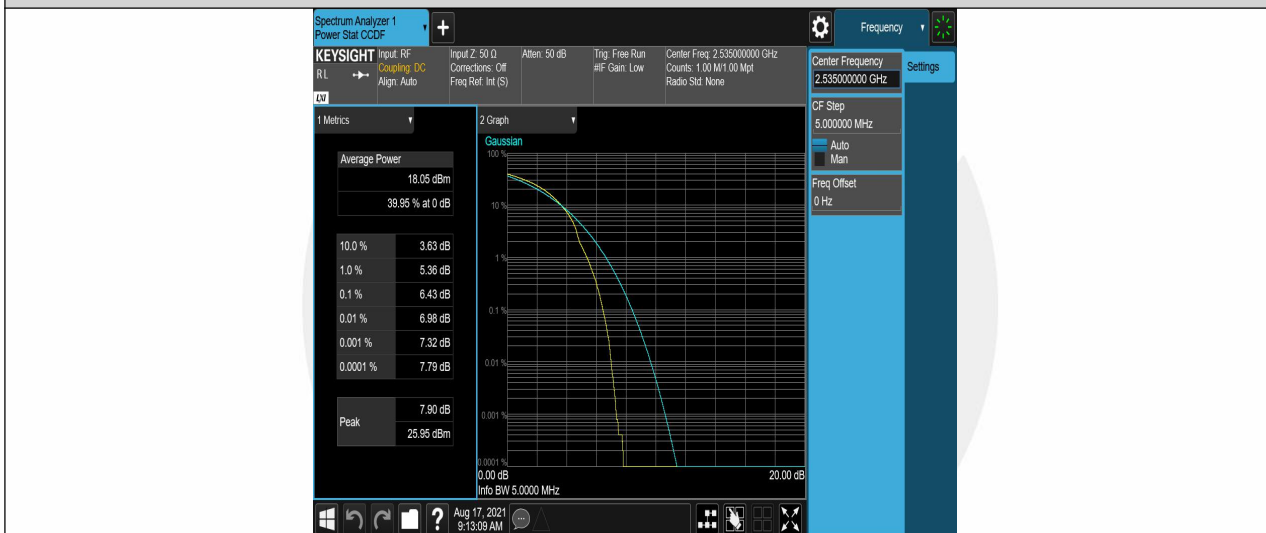
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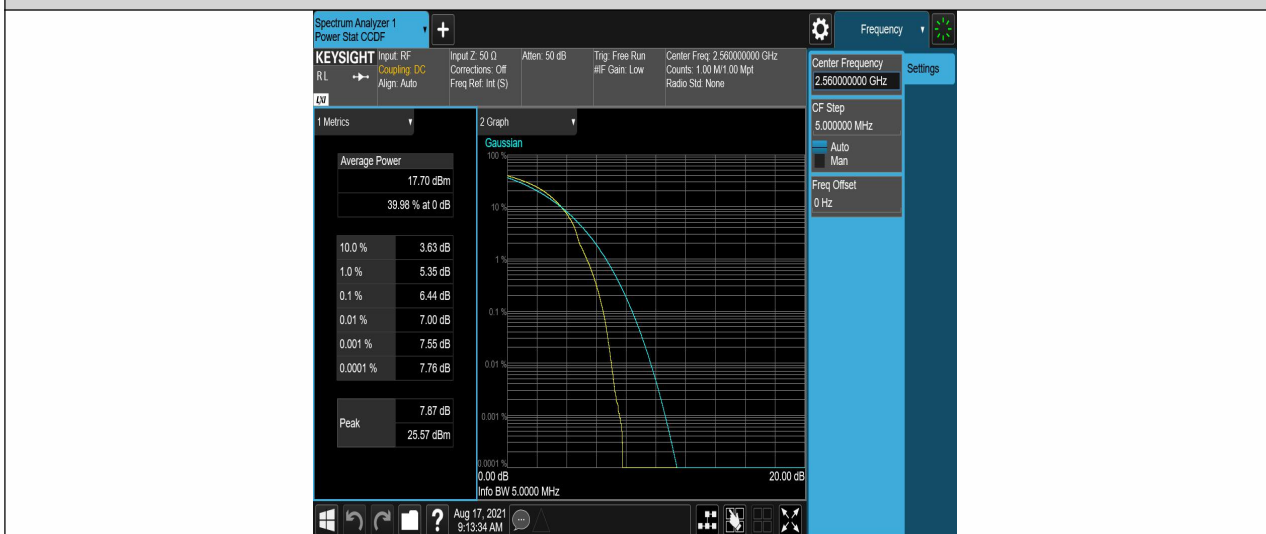
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**Band7-20MHz-QPSK-20850-100RB#0**



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

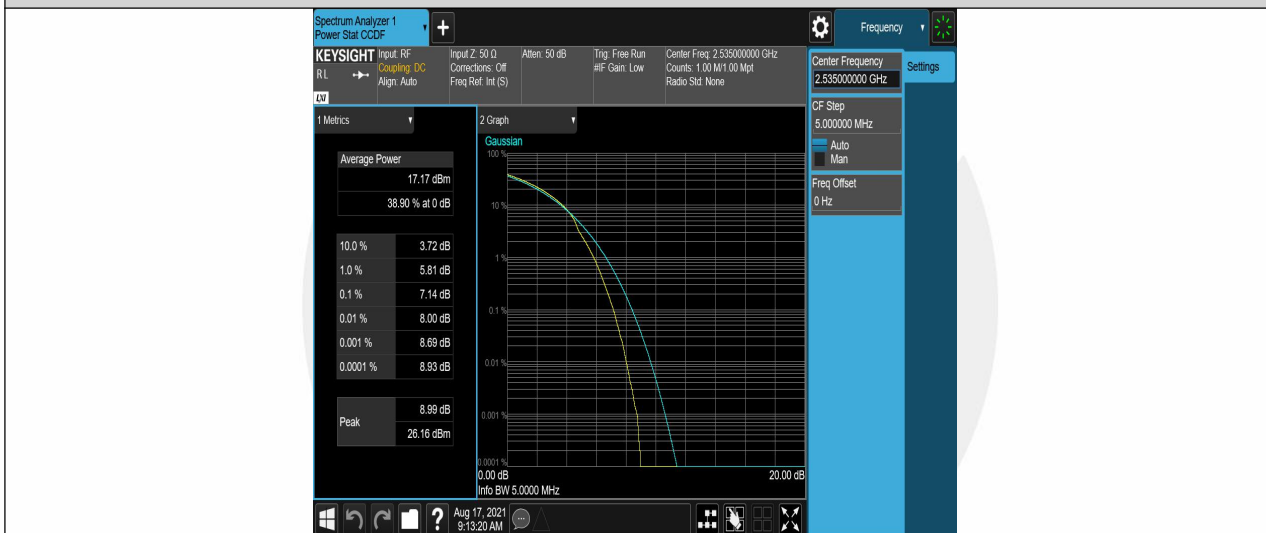


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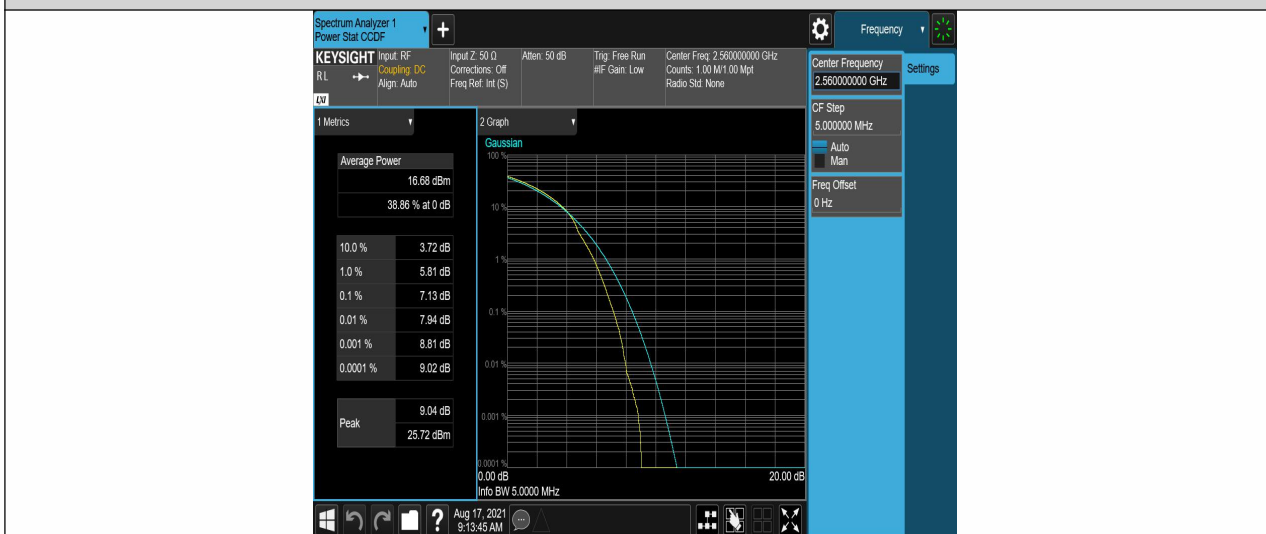




Band7-20MHz-16QAM-20850-100RB#0



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



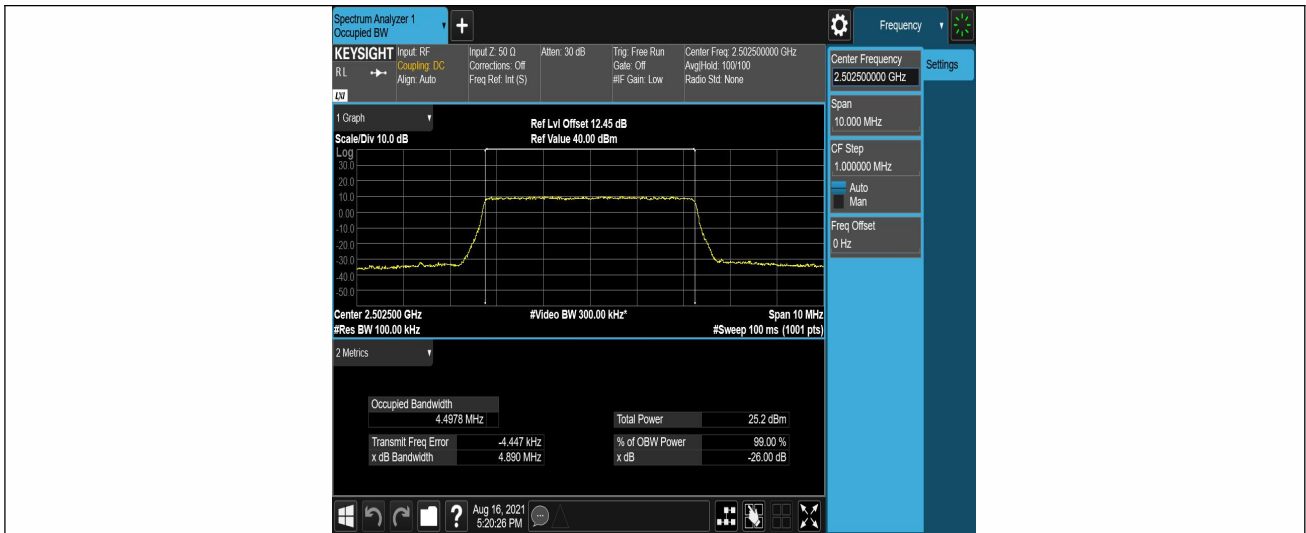
Band7-20MHz-16QAM-21350-100RB#0

## 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	4.4978	4.890	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5023	4.894	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4925	4.893	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5034	4.870	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5053	4.891	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4954	4.903	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9602	9.566	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9591	9.536	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9709	9.553	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9472	9.532	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9562	9.544	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9601	9.533	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.443	14.26	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.443	14.29	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.448	14.32	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.434	14.25	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.437	14.28	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.436	14.29	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.919	18.93	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.900	18.93	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.897	18.95	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.903	18.94	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.889	18.96	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.922	18.96	PASS

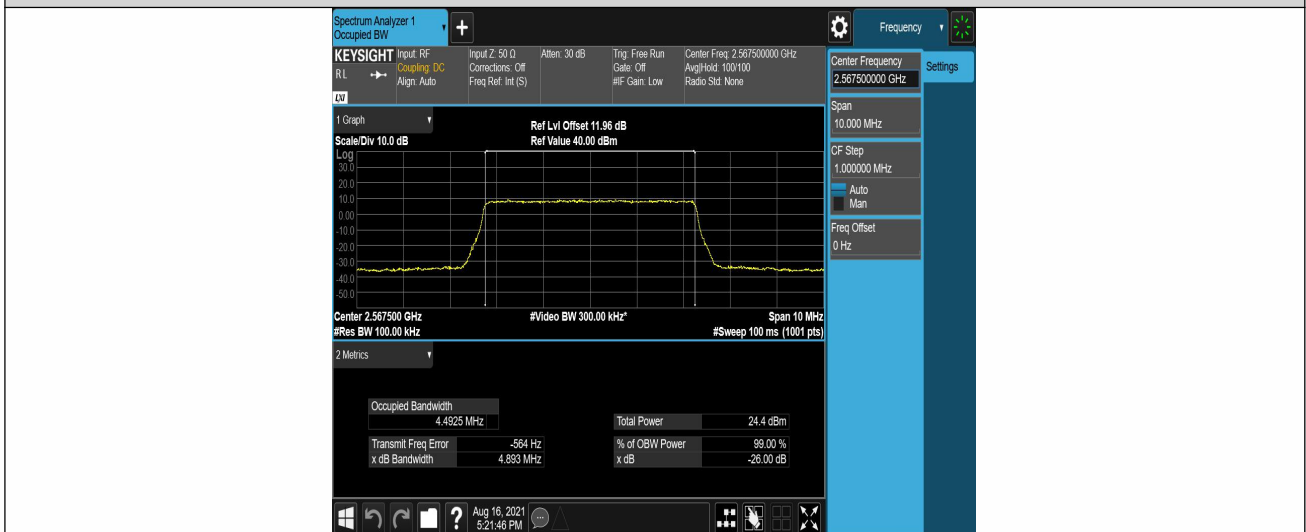
## Test Graphs



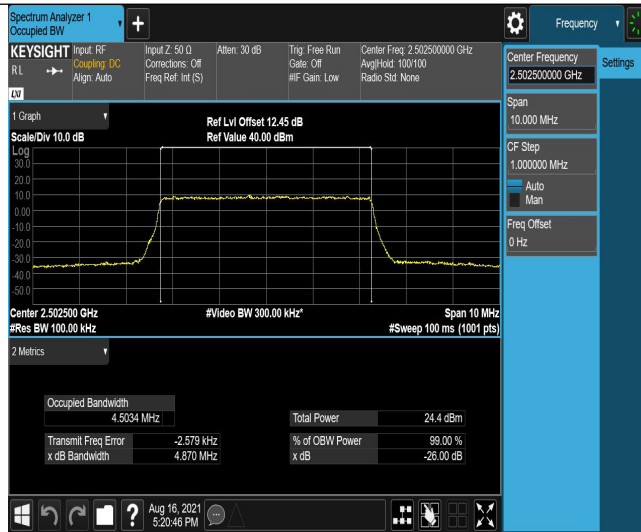
Band7-5MHz-QPSK-20775-25RB#0



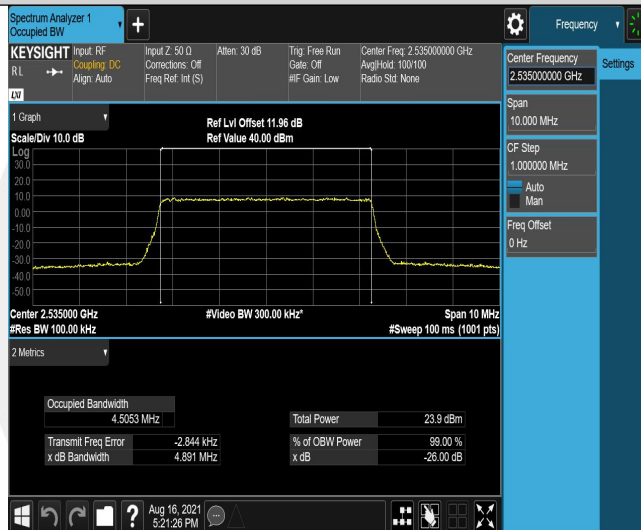
Band7-5MHz-QPSK-21100-25RB#0



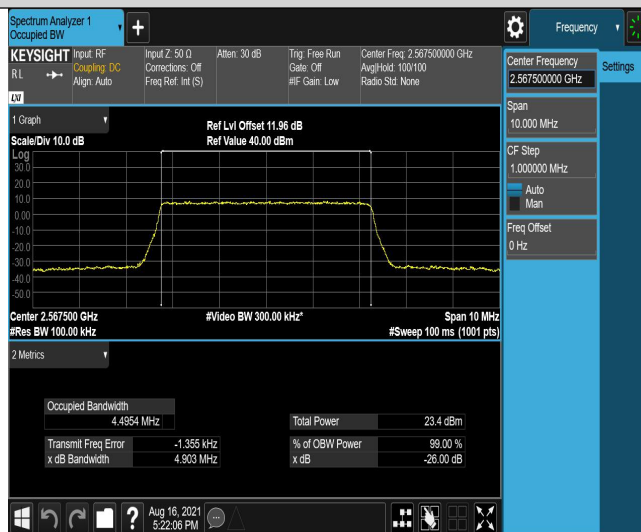
Band7-5MHz-QPSK-21425-25RB#0



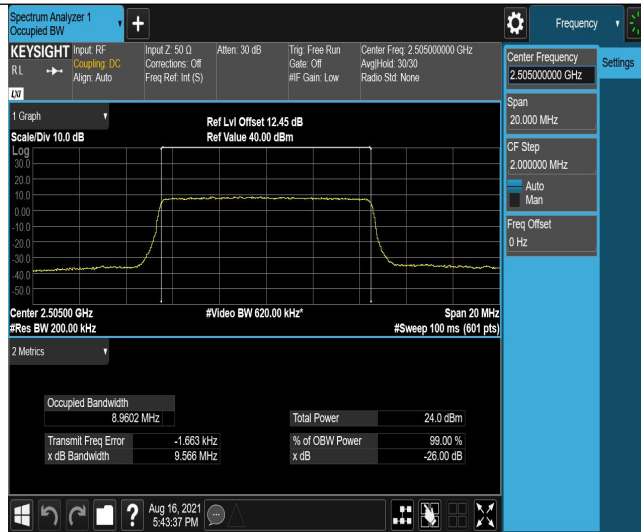
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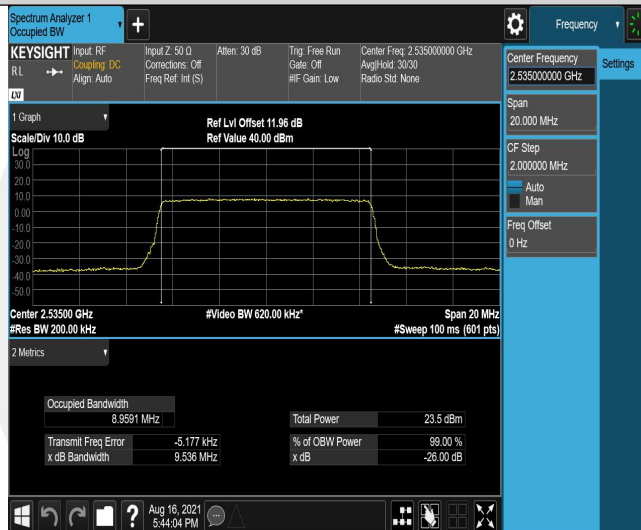
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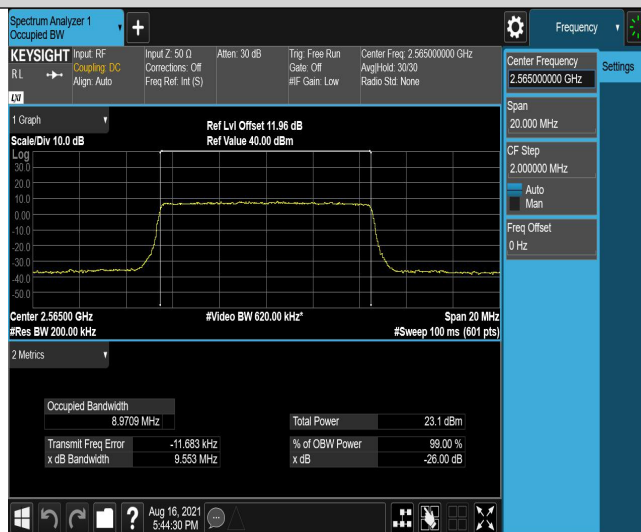
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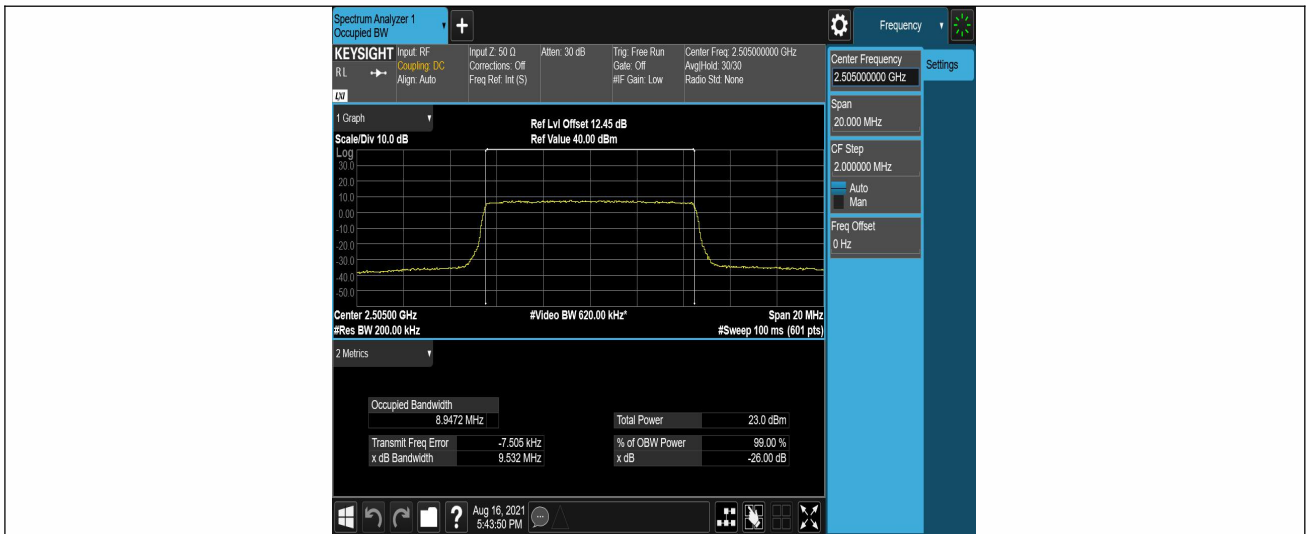
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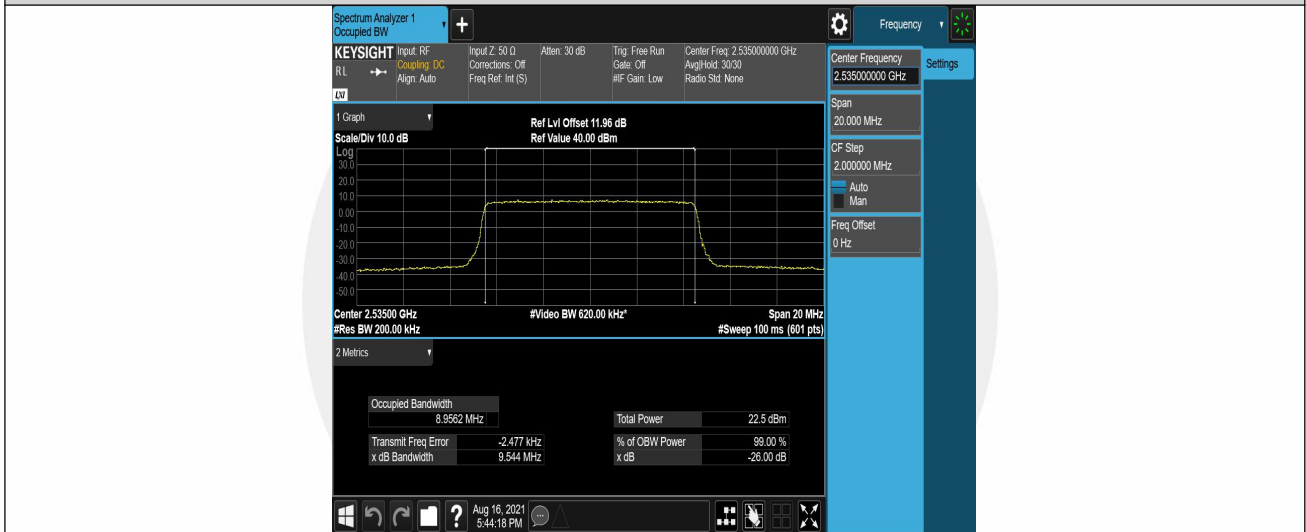
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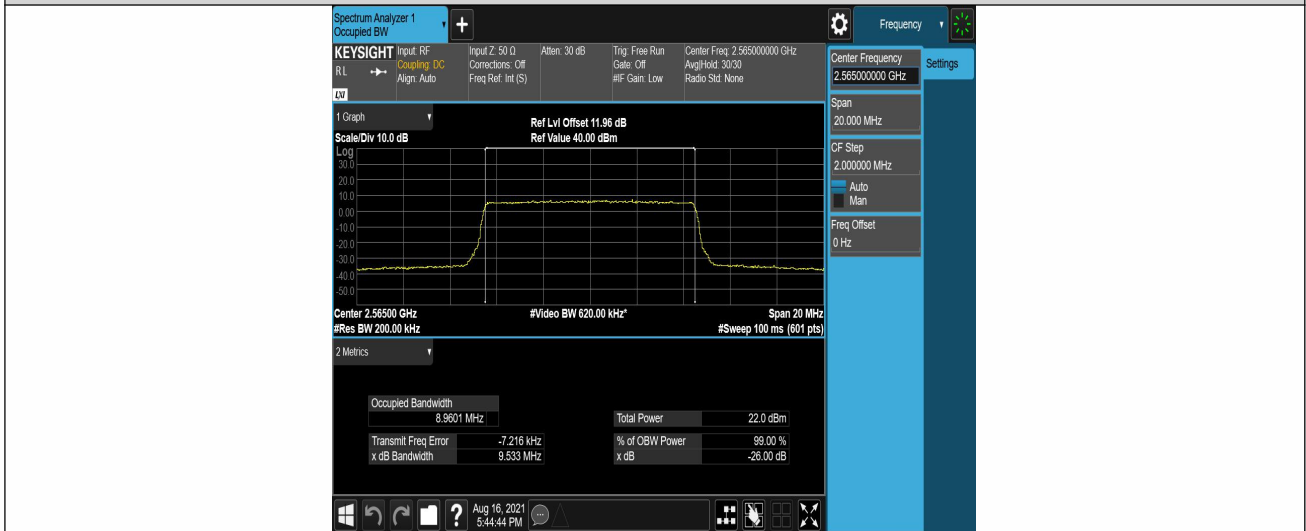
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Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-2100-50RB#0



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