

# Appendix C.3

## LTE Band n12



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Wireless Laboratory

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### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Test Result

##### 1.1.1 15k\_SISO\_5MHz\_NTNV\_ERP

5G NR n12 SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	701.5	Edge_1RB_Left	23.42	/	/	21.93	/	/	<=34.77	Pass
		Edge_1RB_Right	23.34	/	/	21.85	/	/	<=34.77	Pass
		Outer_Full	23.44	/	/	21.95	/	/	<=34.77	Pass
		Inner_Full	23.37	/	/	21.88	/	/	<=34.77	Pass
		Inner_1RB_Left	23.44	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Right	23.34	/	/	21.85	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.46	/	/	21.97	/	/	<=34.77	Pass
		Edge_1RB_Right	23.64	/	/	22.15	/	/	<=34.77	Pass
		Outer_Full	23.57	/	/	22.08	/	/	<=34.77	Pass
		Inner_Full	23.51	/	/	22.02	/	/	<=34.77	Pass
		Inner_1RB_Left	23.50	/	/	22.01	/	/	<=34.77	Pass
		Inner_1RB_Right	23.64	/	/	22.15	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	23.50	/	/	22.01	/	/	<=34.77	Pass
		Edge_1RB_Right	23.53	/	/	22.04	/	/	<=34.77	Pass
		Outer_Full	23.55	/	/	22.06	/	/	<=34.77	Pass
		Inner_Full	23.62	/	/	22.13	/	/	<=34.77	Pass
		Inner_1RB_Left	23.56	/	/	22.07	/	/	<=34.77	Pass
		Inner_1RB_Right	23.68	/	/	22.19	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	701.5	Edge_1RB_Left	23.43	/	/	21.94	/	/	<=34.77	Pass
		Edge_1RB_Right	23.30	/	/	21.81	/	/	<=34.77	Pass
		Outer_Full	23.47	/	/	21.98	/	/	<=34.77	Pass
		Inner_Full	23.44	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Left	23.46	/	/	21.97	/	/	<=34.77	Pass
		Inner_1RB_Right	23.30	/	/	21.81	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.44	/	/	21.95	/	/	<=34.77	Pass
		Edge_1RB_Right	23.65	/	/	22.16	/	/	<=34.77	Pass
		Outer_Full	23.54	/	/	22.05	/	/	<=34.77	Pass
		Inner_Full	23.56	/	/	22.07	/	/	<=34.77	Pass



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		Inner_1RB_Left	23.52	/	/	22.03	/	/	<=34.77	Pass
		Inner_1RB_Right	23.56	/	/	22.07	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	23.61	/	/	22.12	/	/	<=34.77	Pass
		Edge_1RB_Right	23.51	/	/	22.02	/	/	<=34.77	Pass
		Outer_Full	23.62	/	/	22.13	/	/	<=34.77	Pass
		Inner_Full	23.64	/	/	22.15	/	/	<=34.77	Pass
		Inner_1RB_Left	23.60	/	/	22.11	/	/	<=34.77	Pass
		Inner_1RB_Right	23.68	/	/	22.19	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	701.5	Edge_1RB_Left	22.29	/	/	20.8	/	/	<=34.77	Pass
		Edge_1RB_Right	22.14	/	/	20.65	/	/	<=34.77	Pass
		Outer_Full	22.33	/	/	20.84	/	/	<=34.77	Pass
		Inner_Full	23.43	/	/	21.94	/	/	<=34.77	Pass
		Inner_1RB_Left	23.45	/	/	21.96	/	/	<=34.77	Pass
		Inner_1RB_Right	23.28	/	/	21.79	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.65	/	/	21.16	/	/	<=34.77	Pass
		Edge_1RB_Right	22.65	/	/	21.16	/	/	<=34.77	Pass
		Outer_Full	22.54	/	/	21.05	/	/	<=34.77	Pass
		Inner_Full	23.58	/	/	22.09	/	/	<=34.77	Pass
		Inner_1RB_Left	23.06	/	/	21.57	/	/	<=34.77	Pass
		Inner_1RB_Right	23.61	/	/	22.12	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	22.70	/	/	21.21	/	/	<=34.77	Pass
		Edge_1RB_Right	22.68	/	/	21.19	/	/	<=34.77	Pass
		Outer_Full	22.54	/	/	21.05	/	/	<=34.77	Pass
		Inner_Full	23.66	/	/	22.17	/	/	<=34.77	Pass
		Inner_1RB_Left	23.48	/	/	21.99	/	/	<=34.77	Pass
		Inner_1RB_Right	23.48	/	/	21.99	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	701.5	Edge_1RB_Left	21.98	/	/	20.49	/	/	<=34.77	Pass
		Edge_1RB_Right	21.67	/	/	20.18	/	/	<=34.77	Pass
		Outer_Full	21.85	/	/	20.36	/	/	<=34.77	Pass
		Inner_Full	21.96	/	/	20.47	/	/	<=34.77	Pass
		Inner_1RB_Left	21.93	/	/	20.44	/	/	<=34.77	Pass
		Inner_1RB_Right	22.03	/	/	20.54	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.12	/	/	20.63	/	/	<=34.77	Pass
		Edge_1RB_Right	21.88	/	/	20.39	/	/	<=34.77	Pass
		Outer_Full	21.95	/	/	20.46	/	/	<=34.77	Pass
		Inner_Full	22.07	/	/	20.58	/	/	<=34.77	Pass
		Inner_1RB_Left	22.00	/	/	20.51	/	/	<=34.77	Pass



	713.5	Inner_1RB_Right	21.96	/	/	20.47	/	/	<=34.77	Pass
		Edge_1RB_Left	22.12	/	/	20.63	/	/	<=34.77	Pass
		Edge_1RB_Right	22.16	/	/	20.67	/	/	<=34.77	Pass
		Outer_Full	22.09	/	/	20.6	/	/	<=34.77	Pass
		Inner_Full	22.18	/	/	20.69	/	/	<=34.77	Pass
		Inner_1RB_Left	22.25	/	/	20.76	/	/	<=34.77	Pass
		Inner_1RB_Right	22.09	/	/	20.6	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	701.5	Edge_1RB_Left	19.90	/	/	18.41	/	/	<=34.77	Pass
		Edge_1RB_Right	19.91	/	/	18.42	/	/	<=34.77	Pass
		Outer_Full	20.04	/	/	18.55	/	/	<=34.77	Pass
		Inner_Full	19.81	/	/	18.32	/	/	<=34.77	Pass
		Inner_1RB_Left	20.07	/	/	18.58	/	/	<=34.77	Pass
		Inner_1RB_Right	19.95	/	/	18.46	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.08	/	/	18.59	/	/	<=34.77	Pass
		Edge_1RB_Right	20.08	/	/	18.59	/	/	<=34.77	Pass
		Outer_Full	20.05	/	/	18.56	/	/	<=34.77	Pass
		Inner_Full	20.09	/	/	18.6	/	/	<=34.77	Pass
		Inner_1RB_Left	19.98	/	/	18.49	/	/	<=34.77	Pass
		Inner_1RB_Right	20.01	/	/	18.52	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	19.93	/	/	18.44	/	/	<=34.77	Pass
		Edge_1RB_Right	20.06	/	/	18.57	/	/	<=34.77	Pass
		Outer_Full	20.08	/	/	18.59	/	/	<=34.77	Pass
		Inner_Full	20.09	/	/	18.6	/	/	<=34.77	Pass
		Inner_1RB_Left	20.02	/	/	18.53	/	/	<=34.77	Pass
		Inner_1RB_Right	20.20	/	/	18.71	/	/	<=34.77	Pass
CP-OFDM QPSK	701.5	Edge_1RB_Left	21.43	/	/	19.94	/	/	<=34.77	Pass
		Edge_1RB_Right	21.45	/	/	19.96	/	/	<=34.77	Pass
		Outer_Full	21.41	/	/	19.92	/	/	<=34.77	Pass
		Inner_Full	22.92	/	/	21.43	/	/	<=34.77	Pass
		Inner_1RB_Left	23.28	/	/	21.79	/	/	<=34.77	Pass
		Inner_1RB_Right	22.74	/	/	21.25	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.31	/	/	19.82	/	/	<=34.77	Pass
		Edge_1RB_Right	21.63	/	/	20.14	/	/	<=34.77	Pass
		Outer_Full	21.54	/	/	20.05	/	/	<=34.77	Pass
		Inner_Full	23.06	/	/	21.57	/	/	<=34.77	Pass
		Inner_1RB_Left	22.85	/	/	21.36	/	/	<=34.77	Pass
		Inner_1RB_Right	23.49	/	/	22	/	/	<=34.77	Pass



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	713.5	Edge_1RB_Left	21.50	/	/	20.01	/	/	<=34.77	Pass
		Edge_1RB_Right	21.52	/	/	20.03	/	/	<=34.77	Pass
		Outer_Full	21.57	/	/	20.08	/	/	<=34.77	Pass
		Inner_Full	23.13	/	/	21.64	/	/	<=34.77	Pass
		Inner_1RB_Left	22.95	/	/	21.46	/	/	<=34.77	Pass
		Inner_1RB_Right	23.20	/	/	21.71	/	/	<=34.77	Pass
CP-OFDM 16 QAM	701.5	Edge_1RB_Left	21.43	/	/	19.94	/	/	<=34.77	Pass
		Edge_1RB_Right	21.45	/	/	19.96	/	/	<=34.77	Pass
		Outer_Full	21.35	/	/	19.86	/	/	<=34.77	Pass
		Inner_Full	22.37	/	/	20.88	/	/	<=34.77	Pass
		Inner_1RB_Left	22.42	/	/	20.93	/	/	<=34.77	Pass
		Inner_1RB_Right	22.17	/	/	20.68	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.47	/	/	19.98	/	/	<=34.77	Pass
		Edge_1RB_Right	21.70	/	/	20.21	/	/	<=34.77	Pass
		Outer_Full	21.51	/	/	20.02	/	/	<=34.77	Pass
		Inner_Full	22.61	/	/	21.12	/	/	<=34.77	Pass
		Inner_1RB_Left	23.06	/	/	21.57	/	/	<=34.77	Pass
		Inner_1RB_Right	22.67	/	/	21.18	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	21.63	/	/	20.14	/	/	<=34.77	Pass
		Edge_1RB_Right	21.71	/	/	20.22	/	/	<=34.77	Pass
		Outer_Full	21.54	/	/	20.05	/	/	<=34.77	Pass
		Inner_Full	22.57	/	/	21.08	/	/	<=34.77	Pass
		Inner_1RB_Left	22.47	/	/	20.98	/	/	<=34.77	Pass
		Inner_1RB_Right	22.77	/	/	21.28	/	/	<=34.77	Pass
CP-OFDM 64 QAM	701.5	Edge_1RB_Left	21.18	/	/	19.69	/	/	<=34.77	Pass
		Edge_1RB_Right	20.84	/	/	19.35	/	/	<=34.77	Pass
		Outer_Full	21.00	/	/	19.51	/	/	<=34.77	Pass
		Inner_Full	20.93	/	/	19.44	/	/	<=34.77	Pass
		Inner_1RB_Left	20.76	/	/	19.27	/	/	<=34.77	Pass
		Inner_1RB_Right	20.85	/	/	19.36	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.01	/	/	19.52	/	/	<=34.77	Pass
		Edge_1RB_Right	21.26	/	/	19.77	/	/	<=34.77	Pass
		Outer_Full	21.03	/	/	19.54	/	/	<=34.77	Pass
		Inner_Full	21.00	/	/	19.51	/	/	<=34.77	Pass
		Inner_1RB_Left	21.18	/	/	19.69	/	/	<=34.77	Pass
		Inner_1RB_Right	21.08	/	/	19.59	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	21.14	/	/	19.65	/	/	<=34.77	Pass



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		Edge_1RB_Right	20.96	/	/	19.47	/	/	<=34.77	Pass
		Outer_Full	20.98	/	/	19.49	/	/	<=34.77	Pass
		Inner_Full	21.05	/	/	19.56	/	/	<=34.77	Pass
		Inner_1RB_Left	21.35	/	/	19.86	/	/	<=34.77	Pass
		Inner_1RB_Right	20.85	/	/	19.36	/	/	<=34.77	Pass
CP-OFDM 256 QAM	701.5	Edge_1RB_Left	17.88	/	/	16.39	/	/	<=34.77	Pass
		Edge_1RB_Right	17.98	/	/	16.49	/	/	<=34.77	Pass
		Outer_Full	18.00	/	/	16.51	/	/	<=34.77	Pass
		Inner_Full	17.85	/	/	16.36	/	/	<=34.77	Pass
		Inner_1RB_Left	18.26	/	/	16.77	/	/	<=34.77	Pass
		Inner_1RB_Right	17.92	/	/	16.43	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	17.95	/	/	16.46	/	/	<=34.77	Pass
		Edge_1RB_Right	18.14	/	/	16.65	/	/	<=34.77	Pass
		Outer_Full	18.06	/	/	16.57	/	/	<=34.77	Pass
		Inner_Full	18.02	/	/	16.53	/	/	<=34.77	Pass
		Inner_1RB_Left	18.12	/	/	16.63	/	/	<=34.77	Pass
		Inner_1RB_Right	18.26	/	/	16.77	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	18.07	/	/	16.58	/	/	<=34.77	Pass
		Edge_1RB_Right	18.00	/	/	16.51	/	/	<=34.77	Pass
		Outer_Full	18.08	/	/	16.59	/	/	<=34.77	Pass
		Inner_Full	18.11	/	/	16.62	/	/	<=34.77	Pass
		Inner_1RB_Left	17.98	/	/	16.49	/	/	<=34.77	Pass
		Inner_1RB_Right	18.25	/	/	16.76	/	/	<=34.77	Pass
Note1: Antenna Gain: Ant1: 0.66dBi;										
Note2: ERP=Conducted Power+Antenna Gain-2.15										

### 1.1.2 15k\_SISO\_10MHz\_NTNV\_ERP

5G NR n12 SCS=15kHz SISO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	704	Edge_1RB_Left	23.26	/	/	21.77	/	/	<=34.77	Pass
		Edge_1RB_Right	23.55	/	/	22.06	/	/	<=34.77	Pass
		Outer_Full	23.44	/	/	21.95	/	/	<=34.77	Pass
		Inner_Full	23.37	/	/	21.88	/	/	<=34.77	Pass
		Inner_1RB_Left	23.47	/	/	21.98	/	/	<=34.77	Pass
		Inner_1RB_Right	23.45	/	/	21.96	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.35	/	/	21.86	/	/	<=34.77	Pass



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		Edge_1RB_Right	23.57	/	/	22.08	/	/	<=34.77	Pass
		Outer_Full	23.57	/	/	22.08	/	/	<=34.77	Pass
		Inner_Full	23.53	/	/	22.04	/	/	<=34.77	Pass
		Inner_1RB_Left	23.41	/	/	21.92	/	/	<=34.77	Pass
		Inner_1RB_Right	23.66	/	/	22.17	/	/	<=34.77	Pass
	711	Edge_1RB_Left	23.46	/	/	21.97	/	/	<=34.77	Pass
		Edge_1RB_Right	23.57	/	/	22.08	/	/	<=34.77	Pass
		Outer_Full	23.62	/	/	22.13	/	/	<=34.77	Pass
		Inner_Full	23.60	/	/	22.11	/	/	<=34.77	Pass
		Inner_1RB_Left	23.45	/	/	21.96	/	/	<=34.77	Pass
		Inner_1RB_Right	23.59	/	/	22.1	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	704	Edge_1RB_Left	23.48	/	/	21.99	/	/	<=34.77	Pass
		Edge_1RB_Right	23.36	/	/	21.87	/	/	<=34.77	Pass
		Outer_Full	23.33	/	/	21.84	/	/	<=34.77	Pass
		Inner_Full	23.38	/	/	21.89	/	/	<=34.77	Pass
		Inner_1RB_Left	23.55	/	/	22.06	/	/	<=34.77	Pass
		Inner_1RB_Right	23.30	/	/	21.81	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.30	/	/	21.81	/	/	<=34.77	Pass
		Edge_1RB_Right	23.60	/	/	22.11	/	/	<=34.77	Pass
		Outer_Full	23.52	/	/	22.03	/	/	<=34.77	Pass
		Inner_Full	23.56	/	/	22.07	/	/	<=34.77	Pass
		Inner_1RB_Left	23.47	/	/	21.98	/	/	<=34.77	Pass
		Inner_1RB_Right	23.68	/	/	22.19	/	/	<=34.77	Pass
	711	Edge_1RB_Left	23.50	/	/	22.01	/	/	<=34.77	Pass
		Edge_1RB_Right	23.59	/	/	22.1	/	/	<=34.77	Pass
		Outer_Full	23.63	/	/	22.14	/	/	<=34.77	Pass
		Inner_Full	23.66	/	/	22.17	/	/	<=34.77	Pass
		Inner_1RB_Left	23.49	/	/	22	/	/	<=34.77	Pass
		Inner_1RB_Right	23.56	/	/	22.07	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	704	Edge_1RB_Left	22.50	/	/	21.01	/	/	<=34.77	Pass
		Edge_1RB_Right	22.23	/	/	20.74	/	/	<=34.77	Pass
		Outer_Full	22.42	/	/	20.93	/	/	<=34.77	Pass
		Inner_Full	23.36	/	/	21.87	/	/	<=34.77	Pass
		Inner_1RB_Left	23.61	/	/	22.12	/	/	<=34.77	Pass
		Inner_1RB_Right	23.27	/	/	21.78	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.47	/	/	20.98	/	/	<=34.77	Pass
		Edge_1RB_Right	22.60	/	/	21.11	/	/	<=34.77	Pass



		Outer_Full	22.49	/	/	21	/	/	<=34.77	Pass
		Inner_Full	23.54	/	/	22.05	/	/	<=34.77	Pass
		Inner_1RB_Left	23.45	/	/	21.96	/	/	<=34.77	Pass
		Inner_1RB_Right	23.73	/	/	22.24	/	/	<=34.77	Pass
	711	Edge_1RB_Left	22.49	/	/	21	/	/	<=34.77	Pass
		Edge_1RB_Right	22.57	/	/	21.08	/	/	<=34.77	Pass
		Outer_Full	22.51	/	/	21.02	/	/	<=34.77	Pass
		Inner_Full	23.55	/	/	22.06	/	/	<=34.77	Pass
		Inner_1RB_Left	23.57	/	/	22.08	/	/	<=34.77	Pass
		Inner_1RB_Right	23.57	/	/	22.08	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	704	Edge_1RB_Left	21.70	/	/	20.21	/	/	<=34.77	Pass
		Edge_1RB_Right	21.74	/	/	20.25	/	/	<=34.77	Pass
		Outer_Full	21.92	/	/	20.43	/	/	<=34.77	Pass
		Inner_Full	21.85	/	/	20.36	/	/	<=34.77	Pass
		Inner_1RB_Left	21.92	/	/	20.43	/	/	<=34.77	Pass
		Inner_1RB_Right	21.97	/	/	20.48	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.03	/	/	20.54	/	/	<=34.77	Pass
		Edge_1RB_Right	22.10	/	/	20.61	/	/	<=34.77	Pass
		Outer_Full	22.01	/	/	20.52	/	/	<=34.77	Pass
		Inner_Full	22.08	/	/	20.59	/	/	<=34.77	Pass
		Inner_1RB_Left	22.10	/	/	20.61	/	/	<=34.77	Pass
		Inner_1RB_Right	22.21	/	/	20.72	/	/	<=34.77	Pass
	711	Edge_1RB_Left	21.76	/	/	20.27	/	/	<=34.77	Pass
		Edge_1RB_Right	21.84	/	/	20.35	/	/	<=34.77	Pass
		Outer_Full	22.04	/	/	20.55	/	/	<=34.77	Pass
		Inner_Full	22.10	/	/	20.61	/	/	<=34.77	Pass
		Inner_1RB_Left	21.90	/	/	20.41	/	/	<=34.77	Pass
		Inner_1RB_Right	22.06	/	/	20.57	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	704	Edge_1RB_Left	19.83	/	/	18.34	/	/	<=34.77	Pass
		Edge_1RB_Right	20.12	/	/	18.63	/	/	<=34.77	Pass
		Outer_Full	20.00	/	/	18.51	/	/	<=34.77	Pass
		Inner_Full	19.91	/	/	18.42	/	/	<=34.77	Pass
		Inner_1RB_Left	19.91	/	/	18.42	/	/	<=34.77	Pass
		Inner_1RB_Right	20.12	/	/	18.63	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	19.84	/	/	18.35	/	/	<=34.77	Pass
		Edge_1RB_Right	20.30	/	/	18.81	/	/	<=34.77	Pass
		Outer_Full	20.02	/	/	18.53	/	/	<=34.77	Pass



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		Inner_Full	20.09	/	/	18.6	/	/	<=34.77	Pass
		Inner_1RB_Left	20.13	/	/	18.64	/	/	<=34.77	Pass
		Inner_1RB_Right	20.11	/	/	18.62	/	/	<=34.77	Pass
	711	Edge_1RB_Left	20.03	/	/	18.54	/	/	<=34.77	Pass
		Edge_1RB_Right	20.24	/	/	18.75	/	/	<=34.77	Pass
		Outer_Full	20.11	/	/	18.62	/	/	<=34.77	Pass
		Inner_Full	20.17	/	/	18.68	/	/	<=34.77	Pass
		Inner_1RB_Left	20.05	/	/	18.56	/	/	<=34.77	Pass
		Inner_1RB_Right	20.14	/	/	18.65	/	/	<=34.77	Pass
CP-OFDM QPSK	704	Edge_1RB_Left	21.32	/	/	19.83	/	/	<=34.77	Pass
		Edge_1RB_Right	21.68	/	/	20.19	/	/	<=34.77	Pass
		Outer_Full	21.36	/	/	19.87	/	/	<=34.77	Pass
		Inner_Full	22.89	/	/	21.4	/	/	<=34.77	Pass
		Inner_1RB_Left	22.64	/	/	21.15	/	/	<=34.77	Pass
		Inner_1RB_Right	22.87	/	/	21.38	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.35	/	/	19.86	/	/	<=34.77	Pass
		Edge_1RB_Right	21.58	/	/	20.09	/	/	<=34.77	Pass
		Outer_Full	21.56	/	/	20.07	/	/	<=34.77	Pass
		Inner_Full	23.11	/	/	21.62	/	/	<=34.77	Pass
		Inner_1RB_Left	23.01	/	/	21.52	/	/	<=34.77	Pass
		Inner_1RB_Right	23.29	/	/	21.8	/	/	<=34.77	Pass
	711	Edge_1RB_Left	21.36	/	/	19.87	/	/	<=34.77	Pass
		Edge_1RB_Right	21.63	/	/	20.14	/	/	<=34.77	Pass
		Outer_Full	21.64	/	/	20.15	/	/	<=34.77	Pass
		Inner_Full	23.17	/	/	21.68	/	/	<=34.77	Pass
		Inner_1RB_Left	22.95	/	/	21.46	/	/	<=34.77	Pass
		Inner_1RB_Right	23.09	/	/	21.6	/	/	<=34.77	Pass
CP-OFDM 16 QAM	704	Edge_1RB_Left	21.31	/	/	19.82	/	/	<=34.77	Pass
		Edge_1RB_Right	21.56	/	/	20.07	/	/	<=34.77	Pass
		Outer_Full	21.36	/	/	19.87	/	/	<=34.77	Pass
		Inner_Full	22.29	/	/	20.8	/	/	<=34.77	Pass
		Inner_1RB_Left	22.47	/	/	20.98	/	/	<=34.77	Pass
		Inner_1RB_Right	22.26	/	/	20.77	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.55	/	/	20.06	/	/	<=34.77	Pass
		Edge_1RB_Right	21.59	/	/	20.1	/	/	<=34.77	Pass
		Outer_Full	21.55	/	/	20.06	/	/	<=34.77	Pass
		Inner_Full	22.52	/	/	21.03	/	/	<=34.77	Pass



		Inner_1RB_Left	22.14	/	/	20.65	/	/	<=34.77	Pass
		Inner_1RB_Right	22.57	/	/	21.08	/	/	<=34.77	Pass
	711	Edge_1RB_Left	21.45	/	/	19.96	/	/	<=34.77	Pass
		Edge_1RB_Right	21.33	/	/	19.84	/	/	<=34.77	Pass
		Outer_Full	21.61	/	/	20.12	/	/	<=34.77	Pass
		Inner_Full	22.55	/	/	21.06	/	/	<=34.77	Pass
		Inner_1RB_Left	22.70	/	/	21.21	/	/	<=34.77	Pass
		Inner_1RB_Right	22.50	/	/	21.01	/	/	<=34.77	Pass
CP-OFDM 64 QAM	704	Edge_1RB_Left	20.91	/	/	19.42	/	/	<=34.77	Pass
		Edge_1RB_Right	21.17	/	/	19.68	/	/	<=34.77	Pass
		Outer_Full	20.85	/	/	19.36	/	/	<=34.77	Pass
		Inner_Full	20.83	/	/	19.34	/	/	<=34.77	Pass
		Inner_1RB_Left	20.78	/	/	19.29	/	/	<=34.77	Pass
		Inner_1RB_Right	20.92	/	/	19.43	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.03	/	/	19.54	/	/	<=34.77	Pass
		Edge_1RB_Right	21.15	/	/	19.66	/	/	<=34.77	Pass
		Outer_Full	21.02	/	/	19.53	/	/	<=34.77	Pass
		Inner_Full	20.99	/	/	19.5	/	/	<=34.77	Pass
		Inner_1RB_Left	21.07	/	/	19.58	/	/	<=34.77	Pass
		Inner_1RB_Right	21.21	/	/	19.72	/	/	<=34.77	Pass
	711	Edge_1RB_Left	20.99	/	/	19.5	/	/	<=34.77	Pass
		Edge_1RB_Right	20.99	/	/	19.5	/	/	<=34.77	Pass
		Outer_Full	21.13	/	/	19.64	/	/	<=34.77	Pass
		Inner_Full	21.08	/	/	19.59	/	/	<=34.77	Pass
		Inner_1RB_Left	20.84	/	/	19.35	/	/	<=34.77	Pass
		Inner_1RB_Right	21.08	/	/	19.59	/	/	<=34.77	Pass
CP-OFDM 256 QAM	704	Edge_1RB_Left	18.02	/	/	16.53	/	/	<=34.77	Pass
		Edge_1RB_Right	18.05	/	/	16.56	/	/	<=34.77	Pass
		Outer_Full	17.88	/	/	16.39	/	/	<=34.77	Pass
		Inner_Full	17.95	/	/	16.46	/	/	<=34.77	Pass
		Inner_1RB_Left	17.73	/	/	16.24	/	/	<=34.77	Pass
		Inner_1RB_Right	18.14	/	/	16.65	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	17.75	/	/	16.26	/	/	<=34.77	Pass
		Edge_1RB_Right	18.26	/	/	16.77	/	/	<=34.77	Pass
		Outer_Full	18.13	/	/	16.64	/	/	<=34.77	Pass
		Inner_Full	18.13	/	/	16.64	/	/	<=34.77	Pass
		Inner_1RB_Left	17.97	/	/	16.48	/	/	<=34.77	Pass



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	Inner_1RB_Right	18.22	/	/	16.73	/	/	<=34.77	Pass
711	Edge_1RB_Left	17.87	/	/	16.38	/	/	<=34.77	Pass
	Edge_1RB_Right	18.29	/	/	16.8	/	/	<=34.77	Pass
	Outer_Full	18.09	/	/	16.6	/	/	<=34.77	Pass
	Inner_Full	18.20	/	/	16.71	/	/	<=34.77	Pass
	Inner_1RB_Left	18.16	/	/	16.67	/	/	<=34.77	Pass
	Inner_1RB_Right	18.01	/	/	16.52	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant1: 0.66dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 15k\_SISO\_15MHz\_NTNV\_ERP

5G NR n12 SCS=15kHz SISO 15MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	706.5	Edge_1RB_Left	23.62	/	/	22.13	/	/	<=34.77	Pass
		Edge_1RB_Right	23.73	/	/	22.24	/	/	<=34.77	Pass
		Outer_Full	23.70	/	/	22.21	/	/	<=34.77	Pass
		Inner_Full	23.62	/	/	22.13	/	/	<=34.77	Pass
		Inner_1RB_Left	23.63	/	/	22.14	/	/	<=34.77	Pass
		Inner_1RB_Right	23.67	/	/	22.18	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.55	/	/	22.06	/	/	<=34.77	Pass
		Edge_1RB_Right	23.73	/	/	22.24	/	/	<=34.77	Pass
		Outer_Full	23.71	/	/	22.22	/	/	<=34.77	Pass
		Inner_Full	23.78	/	/	22.29	/	/	<=34.77	Pass
		Inner_1RB_Left	23.58	/	/	22.09	/	/	<=34.77	Pass
		Inner_1RB_Right	23.70	/	/	22.21	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	23.55	/	/	22.06	/	/	<=34.77	Pass
		Edge_1RB_Right	23.64	/	/	22.15	/	/	<=34.77	Pass
		Outer_Full	23.73	/	/	22.24	/	/	<=34.77	Pass
		Inner_Full	23.75	/	/	22.26	/	/	<=34.77	Pass
		Inner_1RB_Left	23.51	/	/	22.02	/	/	<=34.77	Pass
		Inner_1RB_Right	23.69	/	/	22.2	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	706.5	Edge_1RB_Left	23.65	/	/	22.16	/	/	<=34.77	Pass
		Edge_1RB_Right	23.66	/	/	22.17	/	/	<=34.77	Pass
		Outer_Full	23.68	/	/	22.19	/	/	<=34.77	Pass
		Inner_Full	23.60	/	/	22.11	/	/	<=34.77	Pass
		Inner_1RB_Left	23.65	/	/	22.16	/	/	<=34.77	Pass



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	707.5	Inner_1RB_Right	23.63	/	/	22.14	/	/	<=34.77	Pass
		Edge_1RB_Left	23.60	/	/	22.11	/	/	<=34.77	Pass
		Edge_1RB_Right	23.67	/	/	22.18	/	/	<=34.77	Pass
		Outer_Full	23.69	/	/	22.2	/	/	<=34.77	Pass
		Inner_Full	23.69	/	/	22.2	/	/	<=34.77	Pass
		Inner_1RB_Left	23.57	/	/	22.08	/	/	<=34.77	Pass
		Inner_1RB_Right	23.73	/	/	22.24	/	/	<=34.77	Pass
		Edge_1RB_Left	23.59	/	/	22.1	/	/	<=34.77	Pass
		Edge_1RB_Right	23.67	/	/	22.18	/	/	<=34.77	Pass
		Outer_Full	23.80	/	/	22.31	/	/	<=34.77	Pass
		Inner_Full	23.73	/	/	22.24	/	/	<=34.77	Pass
		Inner_1RB_Left	23.49	/	/	22	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	706.5	Edge_1RB_Left	22.40	/	/	20.91	/	/	<=34.77	Pass
		Edge_1RB_Right	22.75	/	/	21.26	/	/	<=34.77	Pass
		Outer_Full	22.61	/	/	21.12	/	/	<=34.77	Pass
		Inner_Full	23.64	/	/	22.15	/	/	<=34.77	Pass
		Inner_1RB_Left	23.60	/	/	22.11	/	/	<=34.77	Pass
		Inner_1RB_Right	23.75	/	/	22.26	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.45	/	/	20.96	/	/	<=34.77	Pass
		Edge_1RB_Right	22.69	/	/	21.2	/	/	<=34.77	Pass
		Outer_Full	22.70	/	/	21.21	/	/	<=34.77	Pass
		Inner_Full	23.64	/	/	22.15	/	/	<=34.77	Pass
		Inner_1RB_Left	23.44	/	/	21.95	/	/	<=34.77	Pass
		Inner_1RB_Right	23.91	/	/	22.42	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	22.68	/	/	21.19	/	/	<=34.77	Pass
		Edge_1RB_Right	23.04	/	/	21.55	/	/	<=34.77	Pass
		Outer_Full	22.72	/	/	21.23	/	/	<=34.77	Pass
		Inner_Full	23.81	/	/	22.32	/	/	<=34.77	Pass
		Inner_1RB_Left	23.56	/	/	22.07	/	/	<=34.77	Pass
		Inner_1RB_Right	23.50	/	/	22.01	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	706.5	Edge_1RB_Left	22.22	/	/	20.73	/	/	<=34.77	Pass
		Edge_1RB_Right	22.03	/	/	20.54	/	/	<=34.77	Pass
		Outer_Full	22.15	/	/	20.66	/	/	<=34.77	Pass
		Inner_Full	22.12	/	/	20.63	/	/	<=34.77	Pass
		Inner_1RB_Left	21.84	/	/	20.35	/	/	<=34.77	Pass
		Inner_1RB_Right	22.13	/	/	20.64	/	/	<=34.77	Pass





	707.5	Edge_1RB_Left	22.13	/	/	20.64	/	/	<=34.77	Pass
		Edge_1RB_Right	22.11	/	/	20.62	/	/	<=34.77	Pass
		Outer_Full	22.22	/	/	20.73	/	/	<=34.77	Pass
		Inner_Full	22.15	/	/	20.66	/	/	<=34.77	Pass
		Inner_1RB_Left	22.19	/	/	20.7	/	/	<=34.77	Pass
		Inner_1RB_Right	22.34	/	/	20.85	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.78	/	/	20.29	/	/	<=34.77	Pass
		Edge_1RB_Right	22.37	/	/	20.88	/	/	<=34.77	Pass
		Outer_Full	22.22	/	/	20.73	/	/	<=34.77	Pass
		Inner_Full	22.23	/	/	20.74	/	/	<=34.77	Pass
		Inner_1RB_Left	21.94	/	/	20.45	/	/	<=34.77	Pass
		Inner_1RB_Right	22.10	/	/	20.61	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	706.5	Edge_1RB_Left	20.19	/	/	18.7	/	/	<=34.77	Pass
		Edge_1RB_Right	20.27	/	/	18.78	/	/	<=34.77	Pass
		Outer_Full	20.12	/	/	18.63	/	/	<=34.77	Pass
		Inner_Full	20.16	/	/	18.67	/	/	<=34.77	Pass
		Inner_1RB_Left	20.01	/	/	18.52	/	/	<=34.77	Pass
		Inner_1RB_Right	20.23	/	/	18.74	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.18	/	/	18.69	/	/	<=34.77	Pass
		Edge_1RB_Right	20.39	/	/	18.9	/	/	<=34.77	Pass
		Outer_Full	20.19	/	/	18.7	/	/	<=34.77	Pass
		Inner_Full	20.13	/	/	18.64	/	/	<=34.77	Pass
		Inner_1RB_Left	20.32	/	/	18.83	/	/	<=34.77	Pass
		Inner_1RB_Right	20.24	/	/	18.75	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	20.16	/	/	18.67	/	/	<=34.77	Pass
		Edge_1RB_Right	20.26	/	/	18.77	/	/	<=34.77	Pass
		Outer_Full	20.17	/	/	18.68	/	/	<=34.77	Pass
		Inner_Full	20.24	/	/	18.75	/	/	<=34.77	Pass
		Inner_1RB_Left	20.04	/	/	18.55	/	/	<=34.77	Pass
		Inner_1RB_Right	20.09	/	/	18.6	/	/	<=34.77	Pass
CP-OFDM QPSK	706.5	Edge_1RB_Left	21.48	/	/	19.99	/	/	<=34.77	Pass
		Edge_1RB_Right	21.65	/	/	20.16	/	/	<=34.77	Pass
		Outer_Full	21.67	/	/	20.18	/	/	<=34.77	Pass
		Inner_Full	23.26	/	/	21.77	/	/	<=34.77	Pass
		Inner_1RB_Left	23.05	/	/	21.56	/	/	<=34.77	Pass
		Inner_1RB_Right	22.96	/	/	21.47	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.33	/	/	19.84	/	/	<=34.77	Pass



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		Edge_1RB_Right	21.63	/	/	20.14	/	/	<=34.77	Pass
		Outer_Full	21.79	/	/	20.3	/	/	<=34.77	Pass
		Inner_Full	23.19	/	/	21.7	/	/	<=34.77	Pass
		Inner_1RB_Left	23.04	/	/	21.55	/	/	<=34.77	Pass
		Inner_1RB_Right	23.17	/	/	21.68	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.37	/	/	19.88	/	/	<=34.77	Pass
		Edge_1RB_Right	21.57	/	/	20.08	/	/	<=34.77	Pass
		Outer_Full	21.66	/	/	20.17	/	/	<=34.77	Pass
		Inner_Full	23.24	/	/	21.75	/	/	<=34.77	Pass
		Inner_1RB_Left	22.89	/	/	21.4	/	/	<=34.77	Pass
		Inner_1RB_Right	23.29	/	/	21.8	/	/	<=34.77	Pass
CP-OFDM 16 QAM	706.5	Edge_1RB_Left	21.56	/	/	20.07	/	/	<=34.77	Pass
		Edge_1RB_Right	21.71	/	/	20.22	/	/	<=34.77	Pass
		Outer_Full	21.52	/	/	20.03	/	/	<=34.77	Pass
		Inner_Full	22.62	/	/	21.13	/	/	<=34.77	Pass
		Inner_1RB_Left	22.52	/	/	21.03	/	/	<=34.77	Pass
		Inner_1RB_Right	22.43	/	/	20.94	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.99	/	/	20.5	/	/	<=34.77	Pass
		Edge_1RB_Right	21.57	/	/	20.08	/	/	<=34.77	Pass
		Outer_Full	21.59	/	/	20.1	/	/	<=34.77	Pass
		Inner_Full	22.72	/	/	21.23	/	/	<=34.77	Pass
		Inner_1RB_Left	22.30	/	/	20.81	/	/	<=34.77	Pass
		Inner_1RB_Right	22.66	/	/	21.17	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.82	/	/	20.33	/	/	<=34.77	Pass
		Edge_1RB_Right	21.90	/	/	20.41	/	/	<=34.77	Pass
		Outer_Full	21.73	/	/	20.24	/	/	<=34.77	Pass
		Inner_Full	22.70	/	/	21.21	/	/	<=34.77	Pass
		Inner_1RB_Left	22.54	/	/	21.05	/	/	<=34.77	Pass
		Inner_1RB_Right	22.43	/	/	20.94	/	/	<=34.77	Pass
CP-OFDM 64 QAM	706.5	Edge_1RB_Left	21.06	/	/	19.57	/	/	<=34.77	Pass
		Edge_1RB_Right	21.08	/	/	19.59	/	/	<=34.77	Pass
		Outer_Full	21.20	/	/	19.71	/	/	<=34.77	Pass
		Inner_Full	21.17	/	/	19.68	/	/	<=34.77	Pass
		Inner_1RB_Left	21.05	/	/	19.56	/	/	<=34.77	Pass
		Inner_1RB_Right	21.35	/	/	19.86	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.07	/	/	19.58	/	/	<=34.77	Pass
		Edge_1RB_Right	21.14	/	/	19.65	/	/	<=34.77	Pass



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		Outer_Full	21.25	/	/	19.76	/	/	<=34.77	Pass
		Inner_Full	21.19	/	/	19.7	/	/	<=34.77	Pass
		Inner_1RB_Left	21.24	/	/	19.75	/	/	<=34.77	Pass
		Inner_1RB_Right	21.17	/	/	19.68	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.14	/	/	19.65	/	/	<=34.77	Pass
		Edge_1RB_Right	21.10	/	/	19.61	/	/	<=34.77	Pass
		Outer_Full	21.26	/	/	19.77	/	/	<=34.77	Pass
		Inner_Full	21.23	/	/	19.74	/	/	<=34.77	Pass
		Inner_1RB_Left	21.09	/	/	19.6	/	/	<=34.77	Pass
		Inner_1RB_Right	21.05	/	/	19.56	/	/	<=34.77	Pass
CP-OFDM 256 QAM	706.5	Edge_1RB_Left	18.41	/	/	16.92	/	/	<=34.77	Pass
		Edge_1RB_Right	18.33	/	/	16.84	/	/	<=34.77	Pass
		Outer_Full	18.16	/	/	16.67	/	/	<=34.77	Pass
		Inner_Full	18.16	/	/	16.67	/	/	<=34.77	Pass
		Inner_1RB_Left	18.32	/	/	16.83	/	/	<=34.77	Pass
		Inner_1RB_Right	18.41	/	/	16.92	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	18.18	/	/	16.69	/	/	<=34.77	Pass
		Edge_1RB_Right	18.34	/	/	16.85	/	/	<=34.77	Pass
		Outer_Full	18.34	/	/	16.85	/	/	<=34.77	Pass
		Inner_Full	18.25	/	/	16.76	/	/	<=34.77	Pass
		Inner_1RB_Left	18.17	/	/	16.68	/	/	<=34.77	Pass
		Inner_1RB_Right	18.35	/	/	16.86	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	18.22	/	/	16.73	/	/	<=34.77	Pass
		Edge_1RB_Right	18.13	/	/	16.64	/	/	<=34.77	Pass
		Outer_Full	18.20	/	/	16.71	/	/	<=34.77	Pass
		Inner_Full	18.27	/	/	16.78	/	/	<=34.77	Pass
		Inner_1RB_Left	18.14	/	/	16.65	/	/	<=34.77	Pass
		Inner_1RB_Right	18.30	/	/	16.81	/	/	<=34.77	Pass
Note1: Antenna Gain: Ant1: 0.66dBi;										
Note2: ERP=Conducted Power+Antenna Gain-2.15										

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 15k\_SISO\_15MHz



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5G NR n12 SCS=15kHz SISO 15MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	707.5	Outer_Full	20	LV	-7.50	-0.0106	>=-2.5 & <=2.5	Pass
				HV	-6.20	-0.0088	>=-2.5 & <=2.5	Pass
			-30	NV	-7.80	-0.0110	>=-2.5 & <=2.5	Pass
			-20	NV	-7.20	-0.0102	>=-2.5 & <=2.5	Pass
			-10	NV	-4.10	-0.0058	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0110	>=-2.5 & <=2.5	Pass
			10	NV	-6.90	-0.0098	>=-2.5 & <=2.5	Pass
			20	NV	-6.00	-0.0085	>=-2.5 & <=2.5	Pass
			30	NV	-5.90	-0.0083	>=-2.5 & <=2.5	Pass
			40	NV	-8.20	-0.0116	>=-2.5 & <=2.5	Pass
			50	NV	-2.60	-0.0037	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	707.5	Outer_Full	20	LV	-5.90	-0.0083	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			-30	NV	-3.60	-0.0051	>=-2.5 & <=2.5	Pass
			-20	NV	-6.50	-0.0092	>=-2.5 & <=2.5	Pass
			-10	NV	-6.40	-0.0090	>=-2.5 & <=2.5	Pass
			0	NV	-8.40	-0.0119	>=-2.5 & <=2.5	Pass
			10	NV	-6.00	-0.0085	>=-2.5 & <=2.5	Pass
			20	NV	-5.60	-0.0079	>=-2.5 & <=2.5	Pass
			30	NV	-7.00	-0.0099	>=-2.5 & <=2.5	Pass
			40	NV	-6.10	-0.0086	>=-2.5 & <=2.5	Pass
			50	NV	-1.30	-0.0018	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	707.5	Outer_Full	20	LV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
				HV	-5.80	-0.0082	>=-2.5 & <=2.5	Pass
			-30	NV	-4.10	-0.0058	>=-2.5 & <=2.5	Pass
			-20	NV	-7.00	-0.0099	>=-2.5 & <=2.5	Pass
			-10	NV	-6.00	-0.0085	>=-2.5 & <=2.5	Pass
			0	NV	-6.20	-0.0088	>=-2.5 & <=2.5	Pass
			10	NV	-7.70	-0.0109	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0092	>=-2.5 & <=2.5	Pass
			30	NV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0082	>=-2.5 & <=2.5	Pass
			50	NV	-7.00	-0.0099	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	707.5	Outer_Full	20	LV	-3.40	-0.0048	>=-2.5 & <=2.5	Pass



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				HV	-3.80	-0.0054	>=-2.5 & <=2.5	Pass
			-30	NV	-5.80	-0.0082	>=-2.5 & <=2.5	Pass
			-20	NV	-6.70	-0.0095	>=-2.5 & <=2.5	Pass
			-10	NV	-5.00	-0.0071	>=-2.5 & <=2.5	Pass
			0	NV	-6.60	-0.0093	>=-2.5 & <=2.5	Pass
			10	NV	-6.70	-0.0095	>=-2.5 & <=2.5	Pass
			20	NV	-6.30	-0.0089	>=-2.5 & <=2.5	Pass
			30	NV	-5.60	-0.0079	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0082	>=-2.5 & <=2.5	Pass
			50	NV	-5.00	-0.0071	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	707.5	Outer_Full	20	LV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
				HV	-3.10	-0.0044	>=-2.5 & <=2.5	Pass
			-30	NV	-3.10	-0.0044	>=-2.5 & <=2.5	Pass
			-20	NV	1.80	0.0025	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0035	>=-2.5 & <=2.5	Pass
			0	NV	-3.30	-0.0047	>=-2.5 & <=2.5	Pass
			10	NV	-2.20	-0.0031	>=-2.5 & <=2.5	Pass
			20	NV	-3.90	-0.0055	>=-2.5 & <=2.5	Pass
			30	NV	-2.50	-0.0035	>=-2.5 & <=2.5	Pass
			40	NV	-1.30	-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	707.5	Outer_Full	20	LV	-5.60	-0.0079	>=-2.5 & <=2.5	Pass
				HV	-4.70	-0.0066	>=-2.5 & <=2.5	Pass
			-30	NV	-6.00	-0.0085	>=-2.5 & <=2.5	Pass
			-20	NV	-4.10	-0.0058	>=-2.5 & <=2.5	Pass
			-10	NV	-4.00	-0.0057	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0038	>=-2.5 & <=2.5	Pass
			10	NV	-3.90	-0.0055	>=-2.5 & <=2.5	Pass
			20	NV	-4.50	-0.0064	>=-2.5 & <=2.5	Pass
			30	NV	-10.70	-0.0151	>=-2.5 & <=2.5	Pass
			40	NV	-4.30	-0.0061	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	707.5	Outer_Full	20	LV	-3.40	-0.0048	>=-2.5 & <=2.5	Pass
				HV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			-30	NV	-1.60	-0.0023	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0081	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0052	>=-2.5 & <=2.5	Pass



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			0	NV	-2.10	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	1.00	0.0014	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-2.90	-0.0041	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-6.30	-0.0089	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-5.40	-0.0076	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-2.60	-0.0037	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 64 QAM	707.5	Outer_Full	20	LV	-6.80	-0.0096	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.40	-0.0076	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-5.80	-0.0082	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-5.20	-0.0073	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-3.90	-0.0055	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-1.90	-0.0027	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-3.60	-0.0051	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-7.40	-0.0105	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-4.80	-0.0068	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-3.50	-0.0049	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	2.10	0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
CP-OFDM 256 QAM	707.5	Outer_Full	20	LV	-5.50	-0.0078	$\geq -2.5$ & $\leq 2.5$	Pass
				HV	-5.90	-0.0083	$\geq -2.5$ & $\leq 2.5$	Pass
			-30	NV	-3.00	-0.0042	$\geq -2.5$ & $\leq 2.5$	Pass
			-20	NV	-4.10	-0.0058	$\geq -2.5$ & $\leq 2.5$	Pass
			-10	NV	-2.10	-0.0030	$\geq -2.5$ & $\leq 2.5$	Pass
			0	NV	-3.20	-0.0045	$\geq -2.5$ & $\leq 2.5$	Pass
			10	NV	-2.20	-0.0031	$\geq -2.5$ & $\leq 2.5$	Pass
			20	NV	-3.10	-0.0044	$\geq -2.5$ & $\leq 2.5$	Pass
			30	NV	-2.40	-0.0034	$\geq -2.5$ & $\leq 2.5$	Pass
			40	NV	-1.50	-0.0021	$\geq -2.5$ & $\leq 2.5$	Pass
			50	NV	-4.10	-0.0058	$\geq -2.5$ & $\leq 2.5$	Pass

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 15k\_SISO\_5MHz\_NTNV

5G NR n12 SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency	RB	99% Bandwidth	26dB Bandwidth	Limit	Verdict



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	(MHz)	Allocation	(MHz)	(MHz)	(MHz)	
DFT-s-OFDM PI/2 BPSK	701.5	Outer_Full	4.56	5.26	/	Pass
	707.5	Outer_Full	4.56	5.37	/	Pass
	713.5	Outer_Full	4.57	5.32	/	Pass
DFT-s-OFDM QPSK	701.5	Outer_Full	4.56	5.32	/	Pass
	707.5	Outer_Full	4.58	5.41	/	Pass
	713.5	Outer_Full	4.57	5.40	/	Pass
DFT-s-OFDM 16 QAM	701.5	Outer_Full	4.56	5.36	/	Pass
	707.5	Outer_Full	4.57	5.40	/	Pass
	713.5	Outer_Full	4.53	5.04	/	Pass
DFT-s-OFDM 64 QAM	701.5	Outer_Full	4.56	5.31	/	Pass
	707.5	Outer_Full	4.58	5.37	/	Pass
	713.5	Outer_Full	4.58	5.31	/	Pass
DFT-s-OFDM 256 QAM	701.5	Outer_Full	4.57	5.33	/	Pass
	707.5	Outer_Full	4.59	5.34	/	Pass
	713.5	Outer_Full	4.60	5.40	/	Pass
CP-OFDM QPSK	701.5	Outer_Full	4.56	5.31	/	Pass
	707.5	Outer_Full	4.54	5.29	/	Pass
	713.5	Outer_Full	4.57	5.44	/	Pass
CP-OFDM 16 QAM	701.5	Outer_Full	4.53	5.19	/	Pass
	707.5	Outer_Full	4.55	5.29	/	Pass
	713.5	Outer_Full	4.55	5.37	/	Pass
CP-OFDM 64 QAM	701.5	Outer_Full	4.56	5.31	/	Pass
	707.5	Outer_Full	4.57	5.26	/	Pass
	713.5	Outer_Full	4.57	5.30	/	Pass
CP-OFDM 256 QAM	701.5	Outer_Full	4.56	5.28	/	Pass
	707.5	Outer_Full	4.57	5.38	/	Pass
	713.5	Outer_Full	4.53	5.28	/	Pass

### 3.1.2 15k\_SISO\_10MHz\_NTNV

5G NR n12 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	704	Outer_Full	9.02	9.93	/	Pass
	707.5	Outer_Full	9.06	10.06	/	Pass
	711	Outer_Full	9.08	9.96	/	Pass
DFT-s-OFDM QPSK	704	Outer_Full	9.02	10.06	/	Pass



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	707.5	Outer_Full	9.05	10.04	/	Pass
	711	Outer_Full	9.06	10.00	/	Pass
	704	Outer_Full	9.04	9.97	/	Pass
DFT-s-OFDM 16 QAM	707.5	Outer_Full	9.04	10.08	/	Pass
	711	Outer_Full	9.06	10.07	/	Pass
	704	Outer_Full	9.06	10.05	/	Pass
DFT-s-OFDM 64 QAM	707.5	Outer_Full	9.06	9.97	/	Pass
	711	Outer_Full	9.07	10.05	/	Pass
	704	Outer_Full	9.01	10.01	/	Pass
DFT-s-OFDM 256 QAM	707.5	Outer_Full	9.05	10.06	/	Pass
	711	Outer_Full	9.08	9.99	/	Pass
	704	Outer_Full	9.36	10.42	/	Pass
CP-OFDM QPSK	707.5	Outer_Full	9.38	10.46	/	Pass
	711	Outer_Full	9.39	10.41	/	Pass
	704	Outer_Full	9.35	10.29	/	Pass
CP-OFDM 16 QAM	707.5	Outer_Full	9.37	10.43	/	Pass
	711	Outer_Full	9.40	10.39	/	Pass
	704	Outer_Full	9.36	10.40	/	Pass
CP-OFDM 64 QAM	707.5	Outer_Full	9.37	10.46	/	Pass
	711	Outer_Full	9.40	10.47	/	Pass
	704	Outer_Full	9.35	10.38	/	Pass
CP-OFDM 256 QAM	707.5	Outer_Full	9.39	10.41	/	Pass
	711	Outer_Full	9.36	10.36	/	Pass
	704	Outer_Full	9.35	10.38	/	Pass

### 3.1.3 15k\_SISO\_15MHz\_NTNV

5G NR n12 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	13.58	14.77	/	Pass
	707.5	Outer_Full	13.60	14.77	/	Pass
	708.5	Outer_Full	13.61	14.74	/	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	13.60	14.69	/	Pass
	707.5	Outer_Full	13.58	14.83	/	Pass
	708.5	Outer_Full	13.59	14.93	/	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	13.54	14.77	/	Pass
	707.5	Outer_Full	13.59	14.79	/	Pass
	708.5	Outer_Full	13.63	14.83	/	Pass



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DFT-s-OFDM 64 QAM	706.5	Outer_Full	13.57	14.85	/	Pass
	707.5	Outer_Full	13.55	14.71	/	Pass
	708.5	Outer_Full	13.60	14.71	/	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	13.63	14.60	/	Pass
	707.5	Outer_Full	13.56	14.81	/	Pass
	708.5	Outer_Full	13.60	14.87	/	Pass
CP-OFDM QPSK	706.5	Outer_Full	14.23	15.50	/	Pass
	707.5	Outer_Full	14.26	15.53	/	Pass
	708.5	Outer_Full	14.29	15.54	/	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	14.24	15.31	/	Pass
	707.5	Outer_Full	14.28	15.23	/	Pass
	708.5	Outer_Full	14.29	15.47	/	Pass
CP-OFDM 64 QAM	706.5	Outer_Full	14.27	15.57	/	Pass
	707.5	Outer_Full	14.31	15.60	/	Pass
	708.5	Outer_Full	14.28	15.50	/	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	14.22	15.50	/	Pass
	707.5	Outer_Full	14.23	15.55	/	Pass
	708.5	Outer_Full	14.23	15.41	/	Pass



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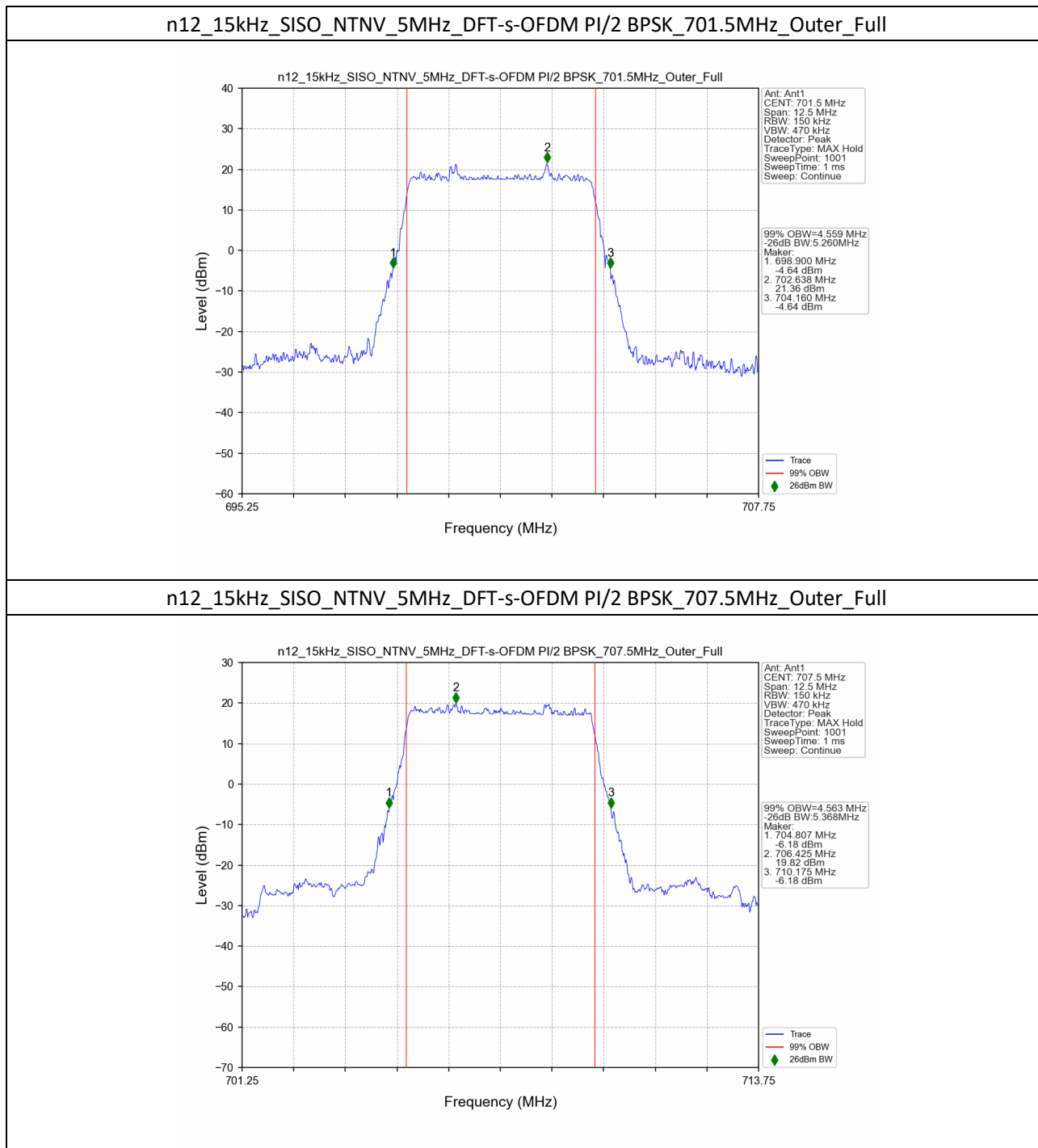
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### 3.2 Test Graph

#### 3.2.1 15k\_SISO\_5MHz\_NTNV

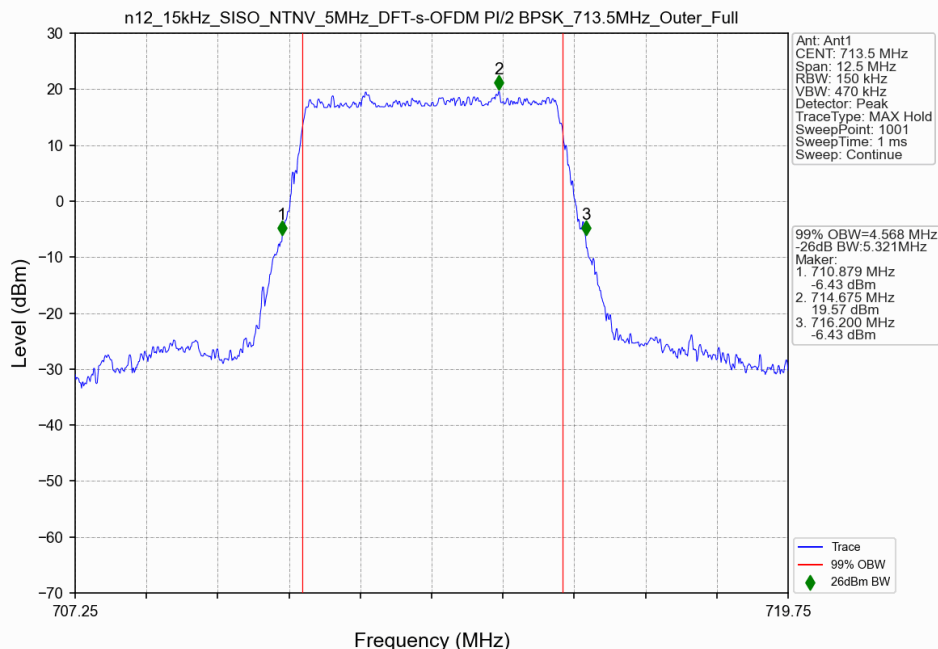


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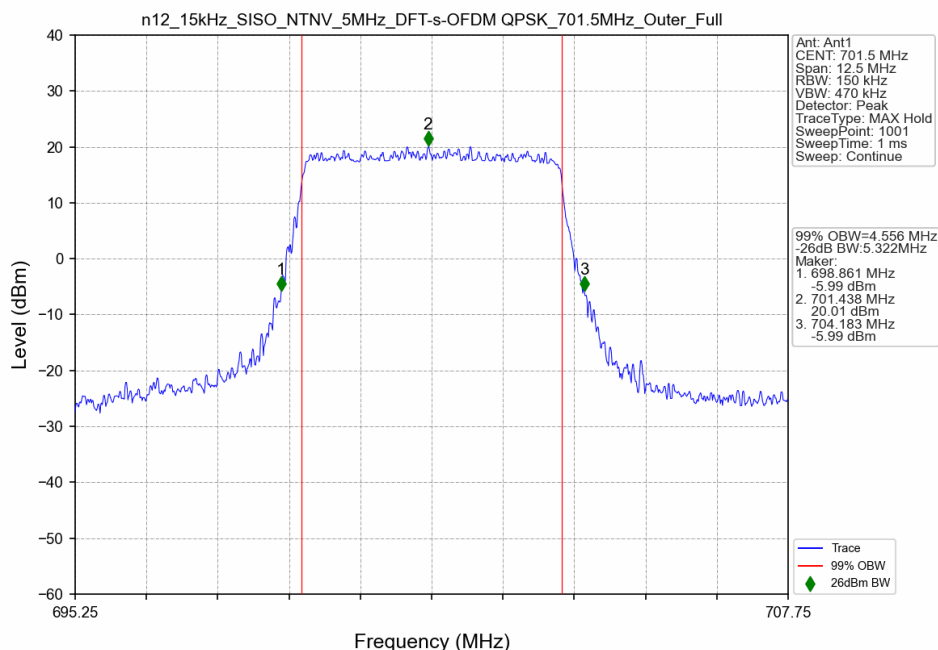
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_701.5MHz\_Outer\_Full

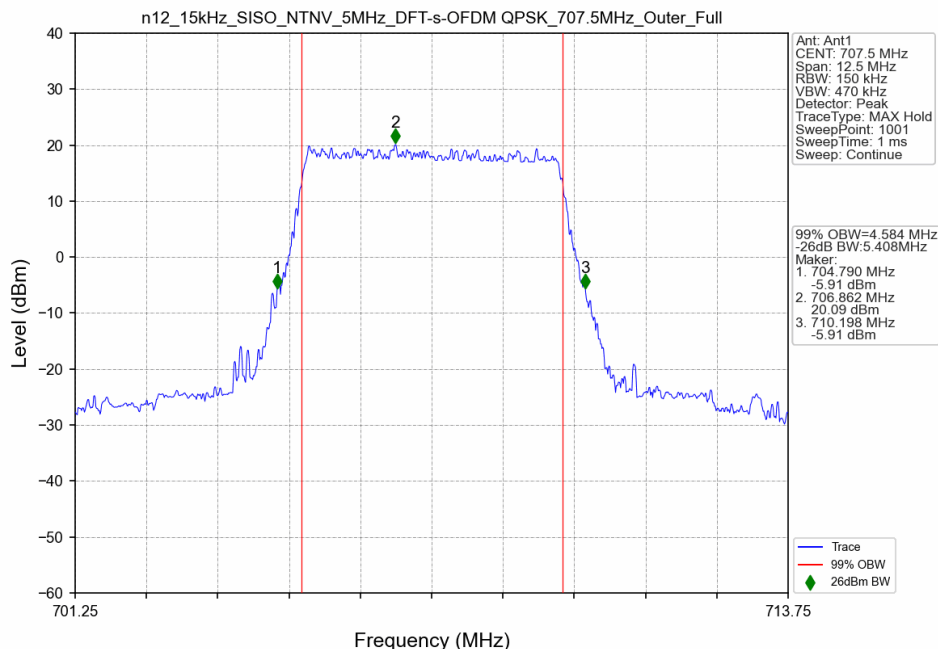


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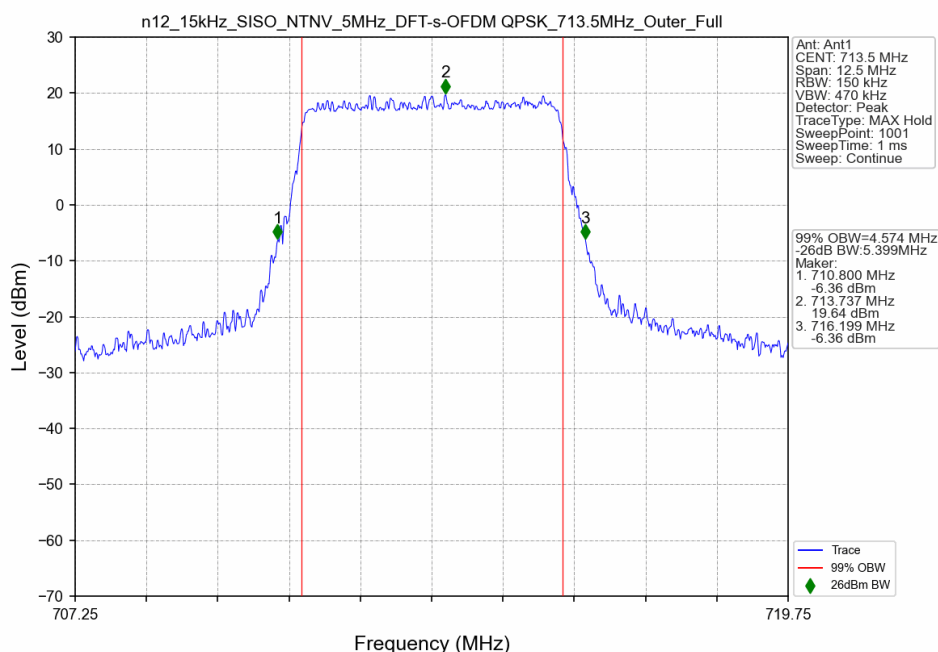
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM QPSK\_713.5MHz\_Outer\_Full



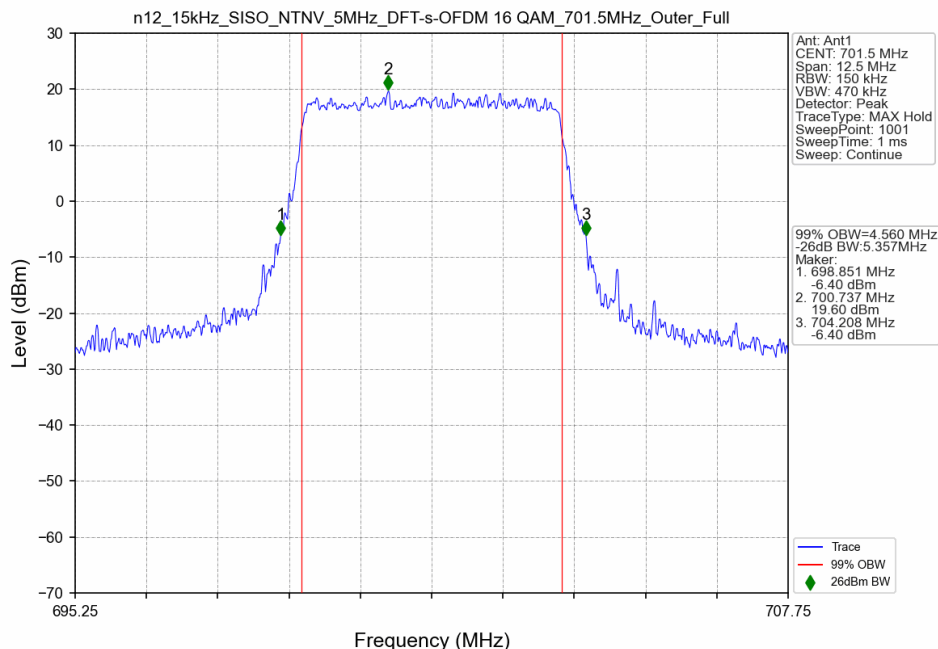
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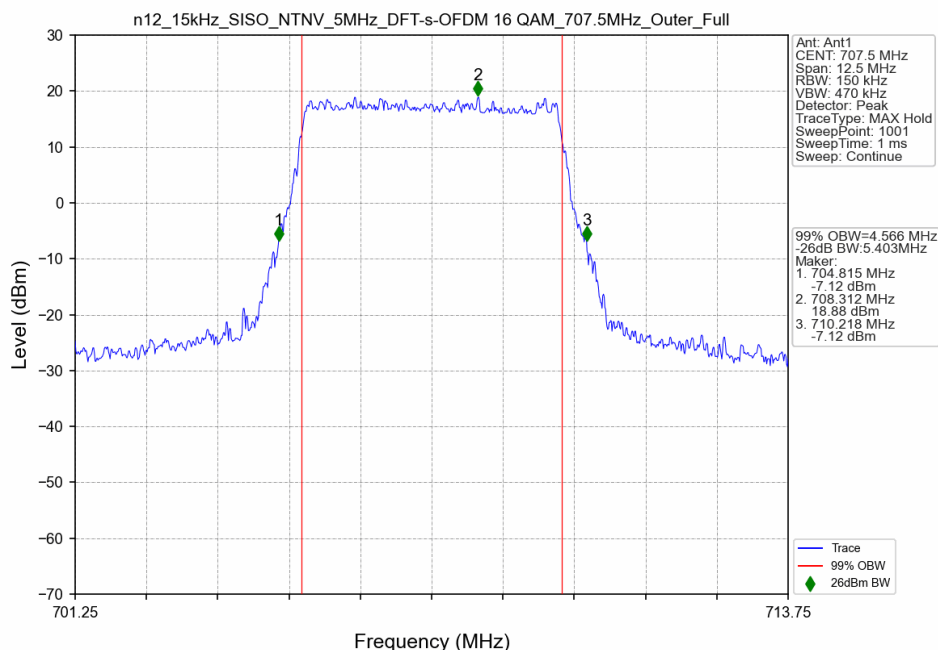
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_701.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_707.5MHz\_Outer\_Full

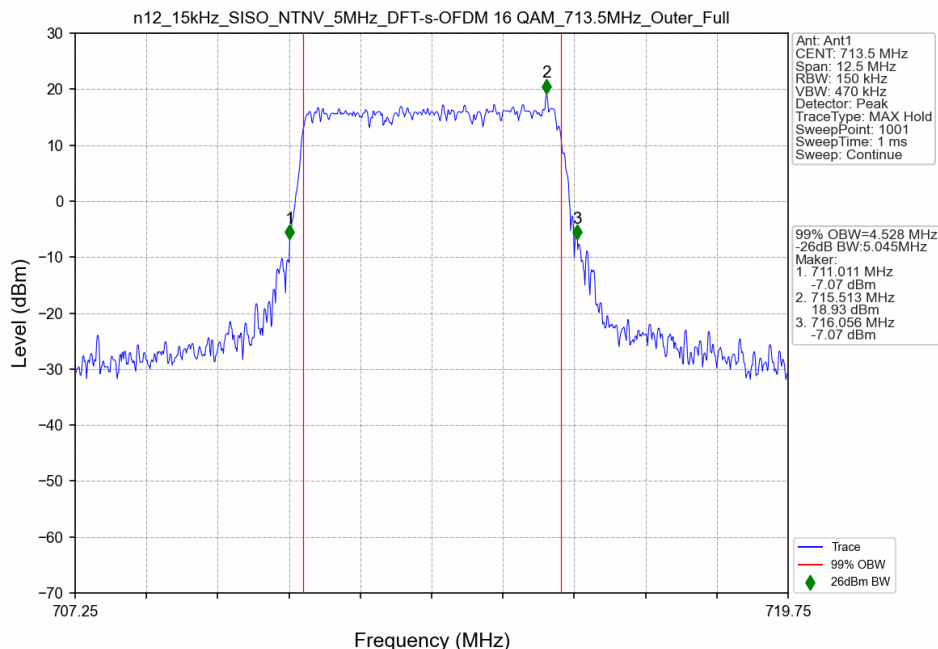


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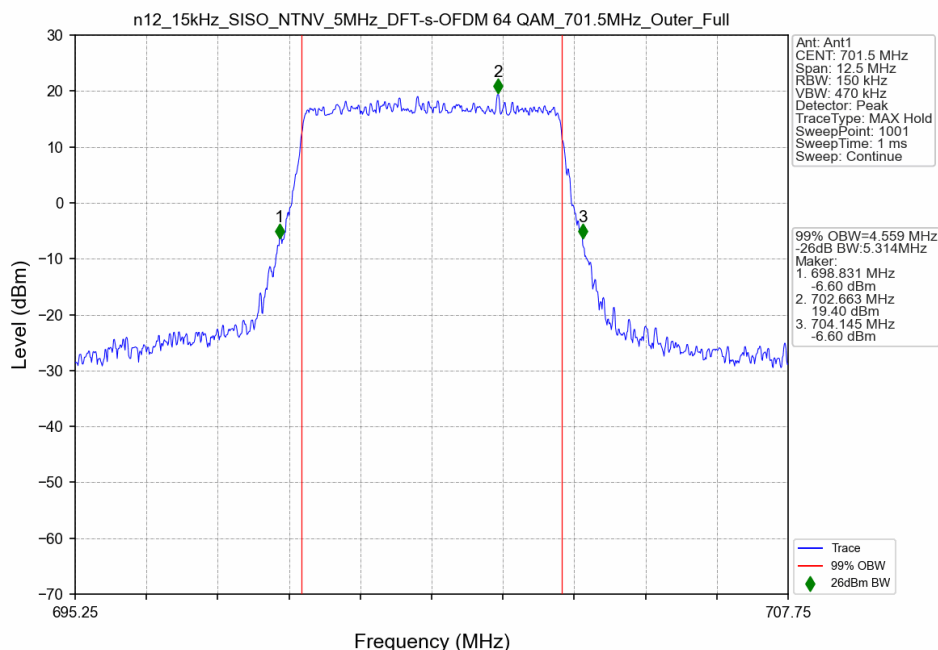
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_713.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_701.5MHz\_Outer\_Full

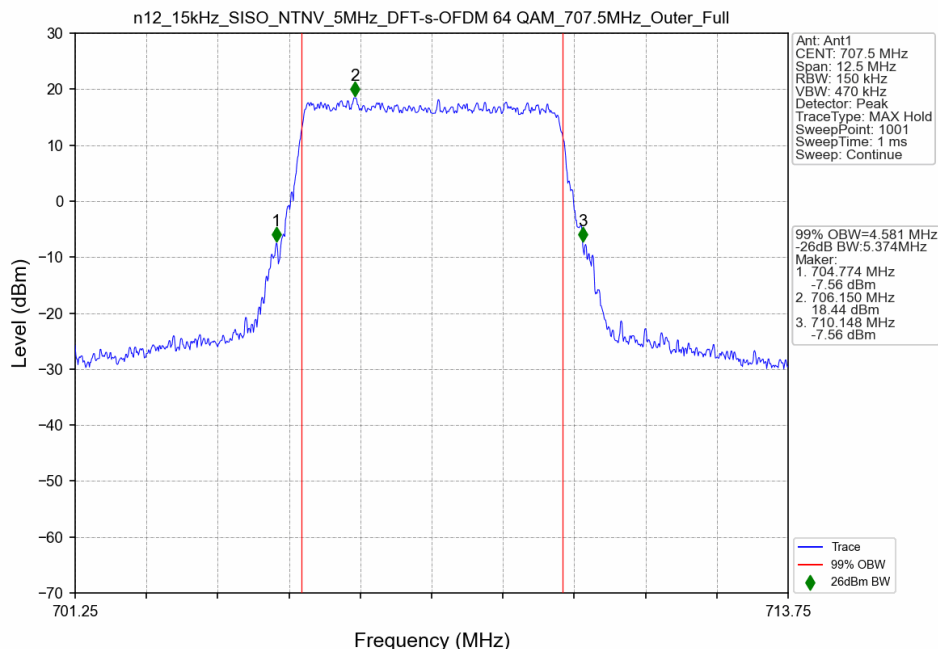


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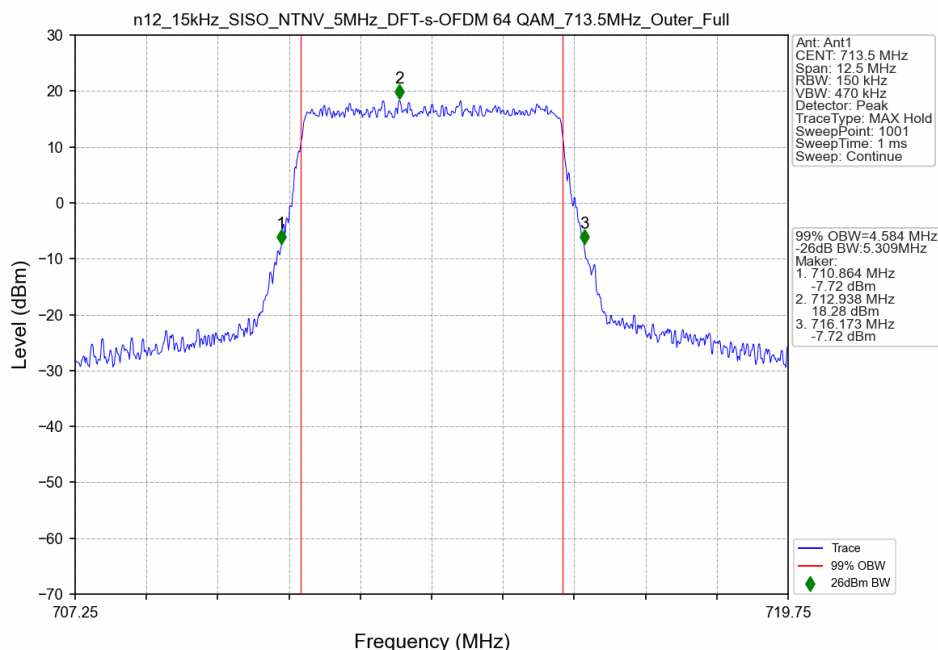
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_707.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_713.5MHz\_Outer\_Full

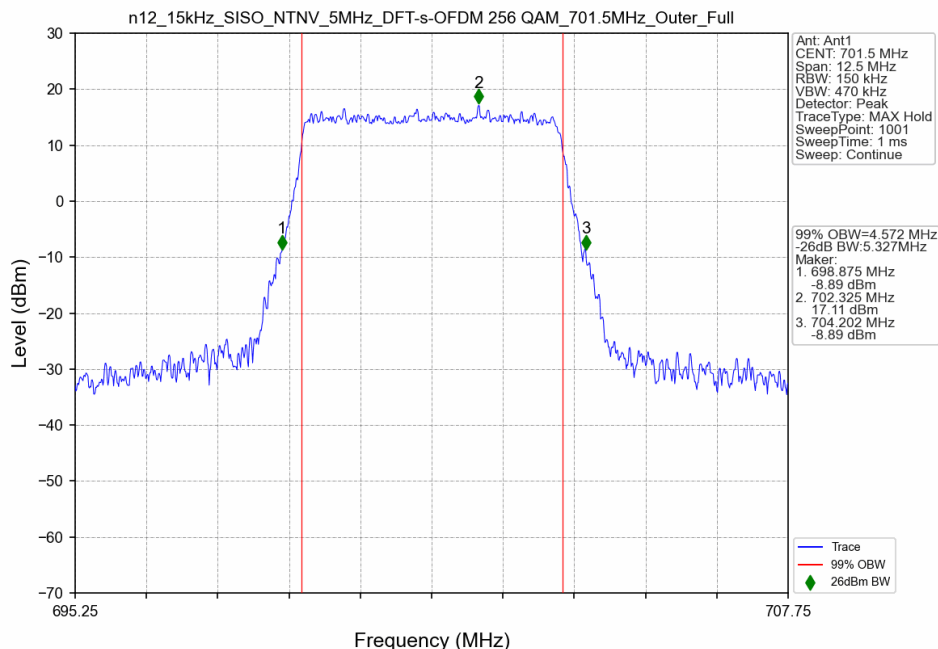


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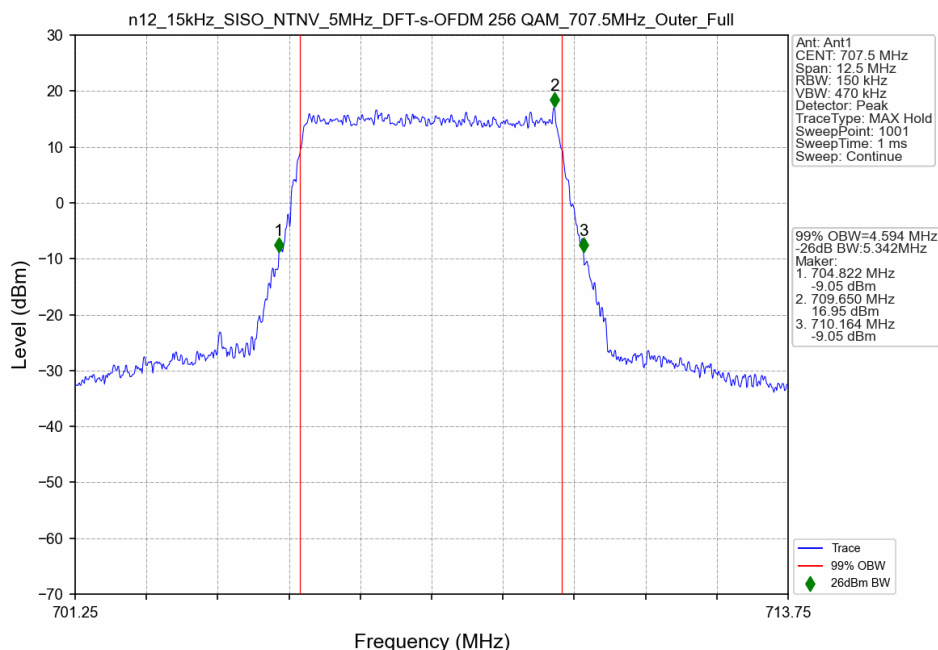
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_701.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_707.5MHz\_Outer\_Full



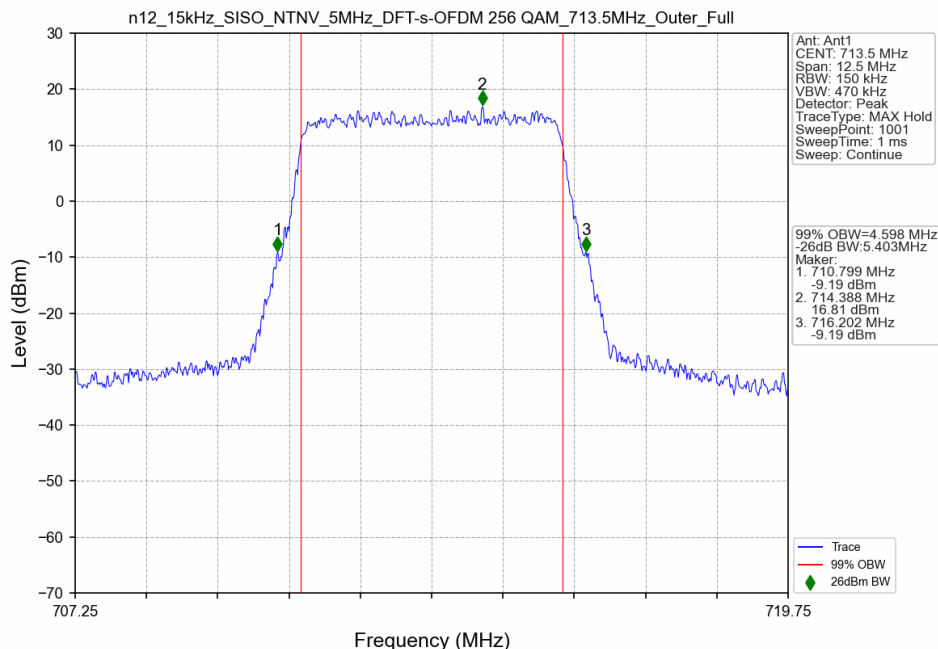
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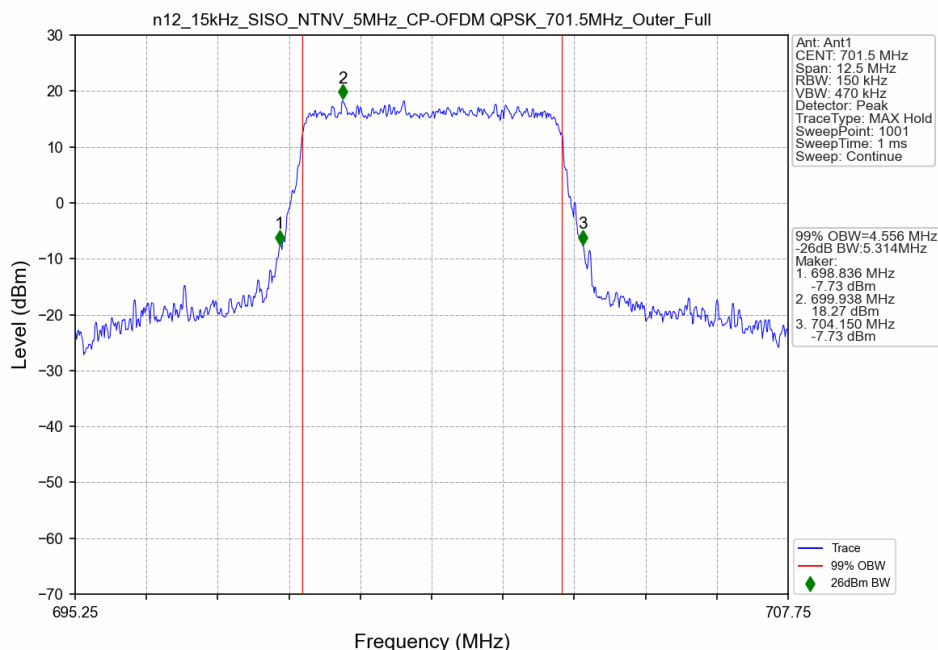
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n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_713.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_701.5MHz\_Outer\_Full

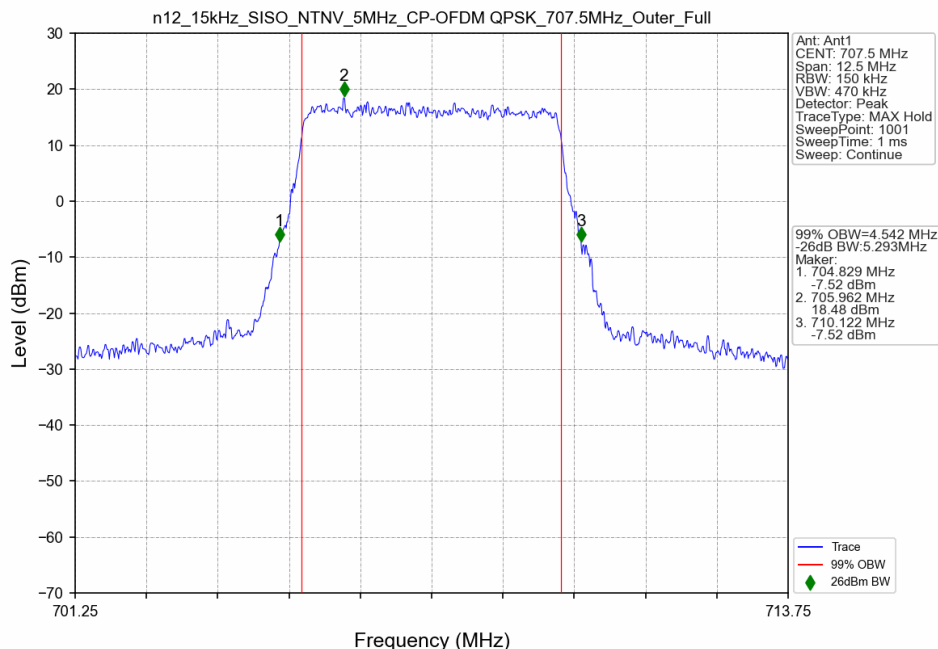


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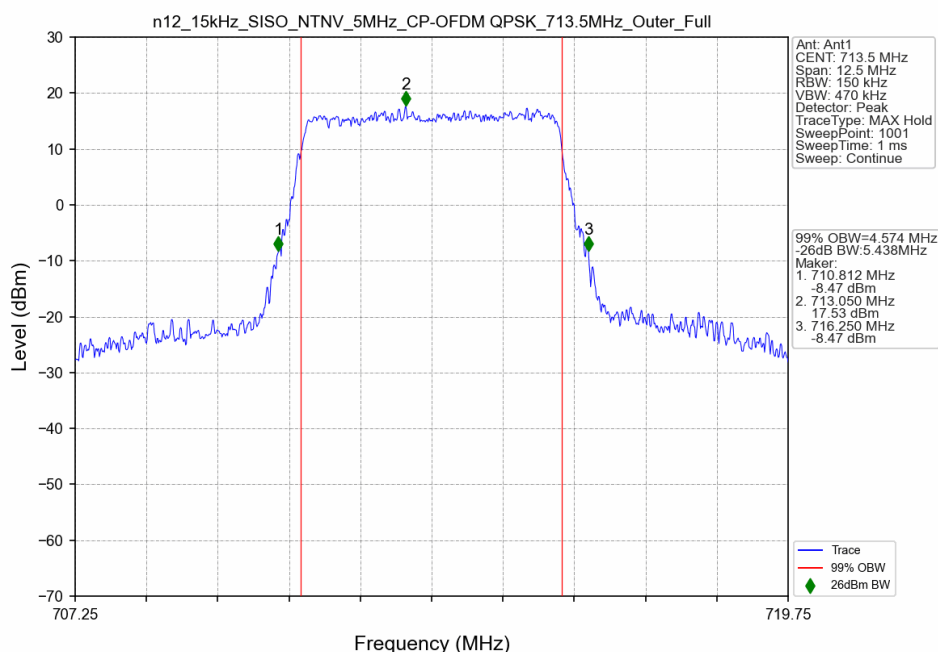
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n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_707.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_713.5MHz\_Outer\_Full

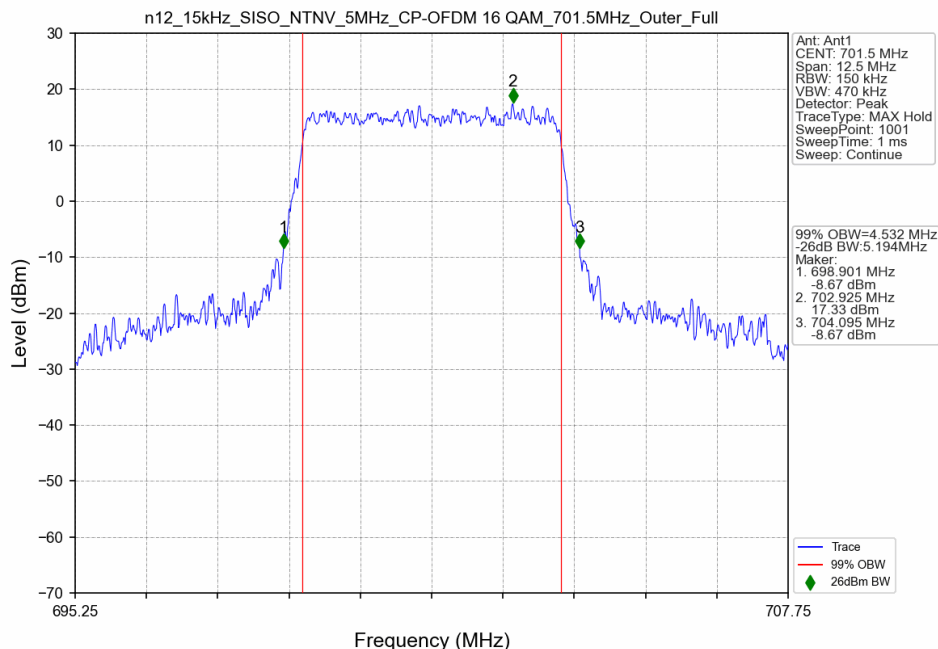


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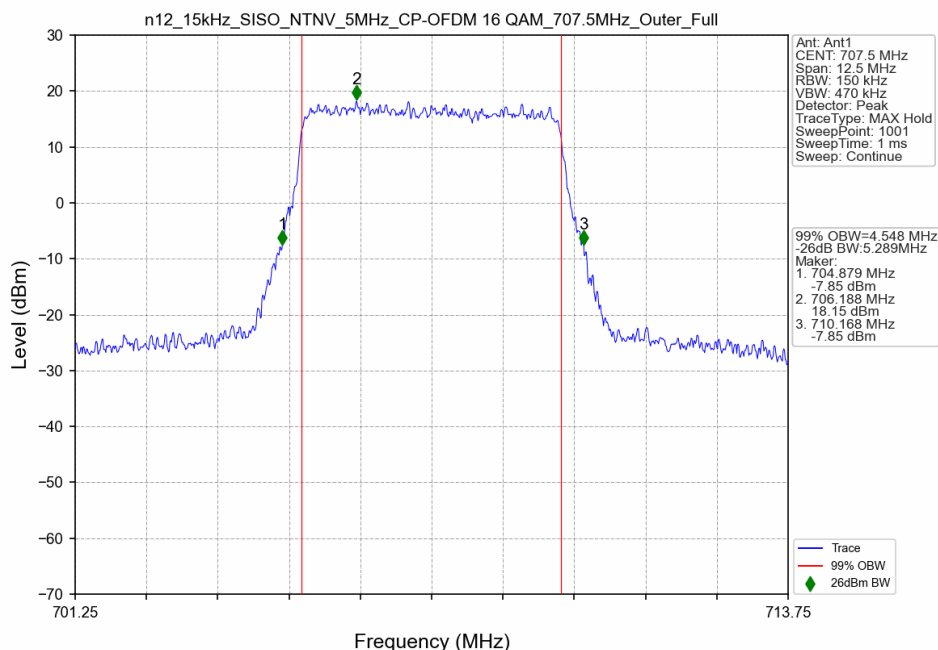
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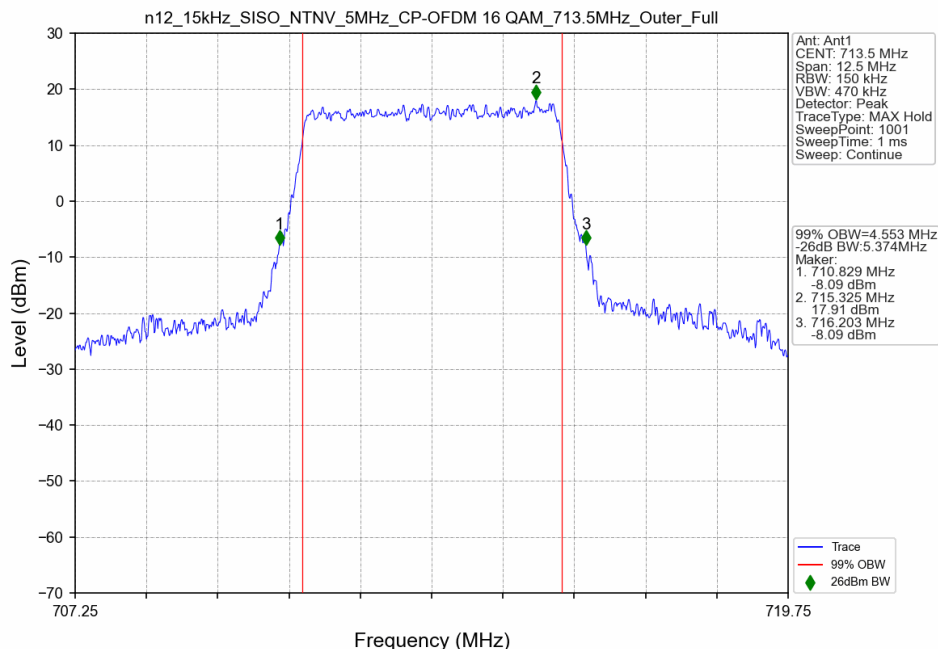
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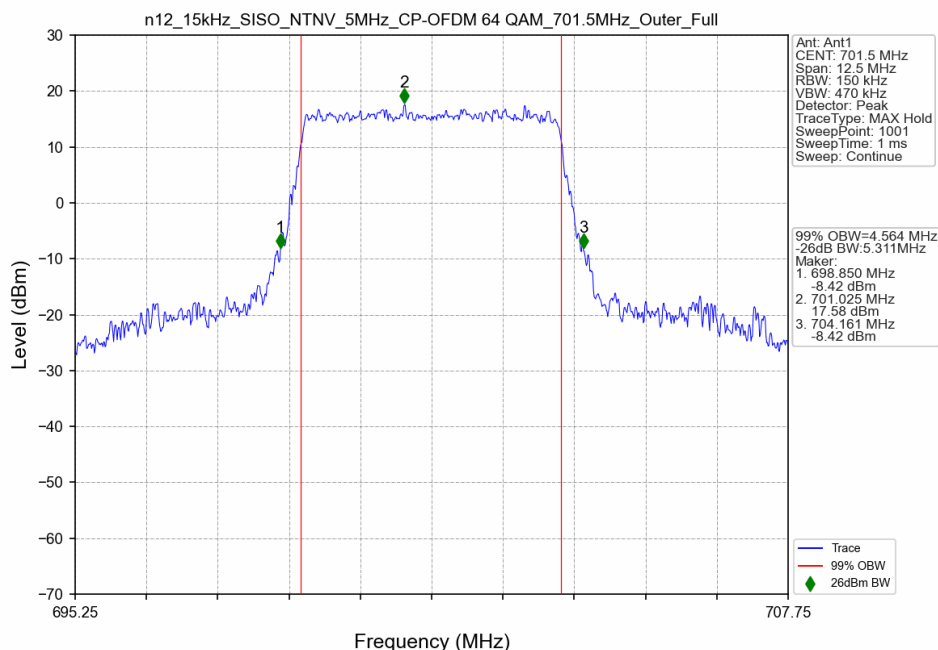
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n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_713.5MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_701.5MHz\_Outer\_Full



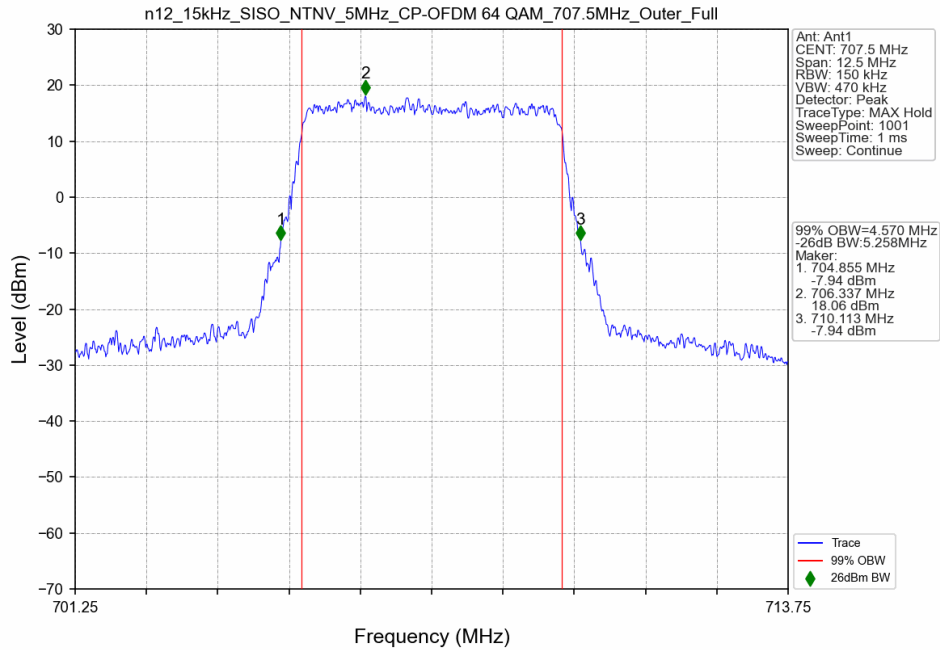
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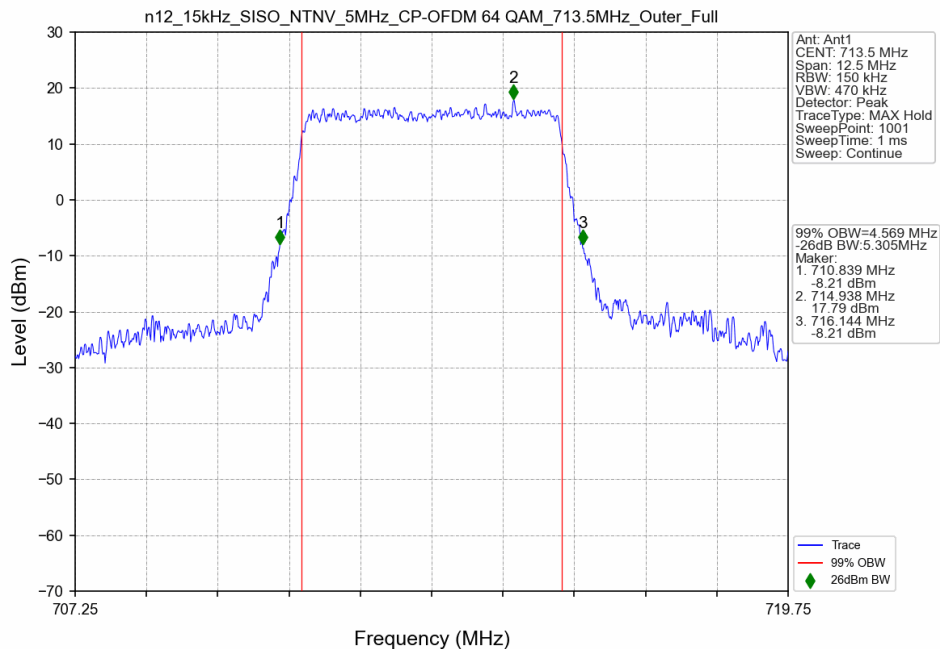
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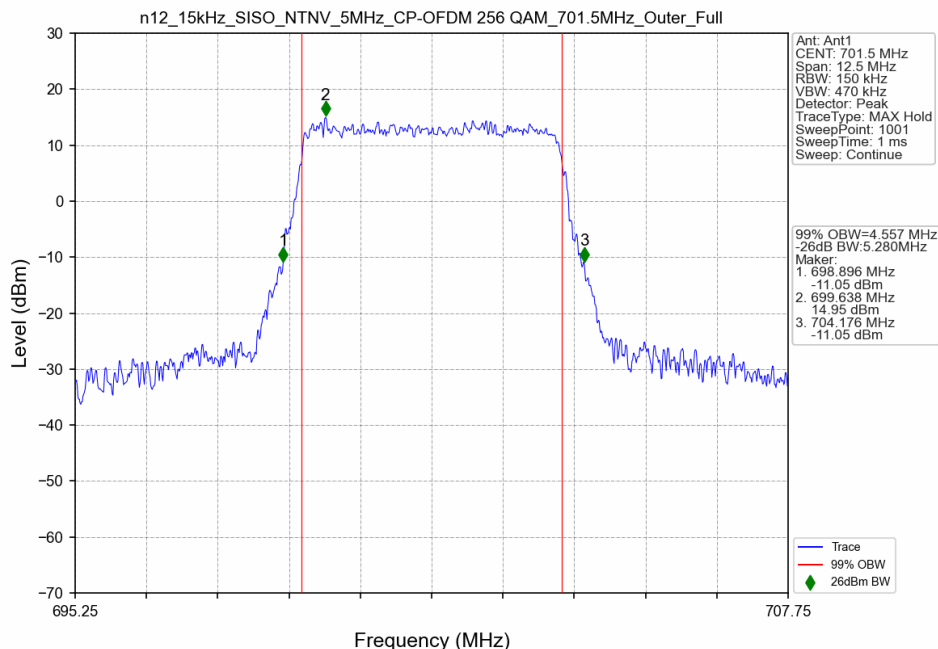


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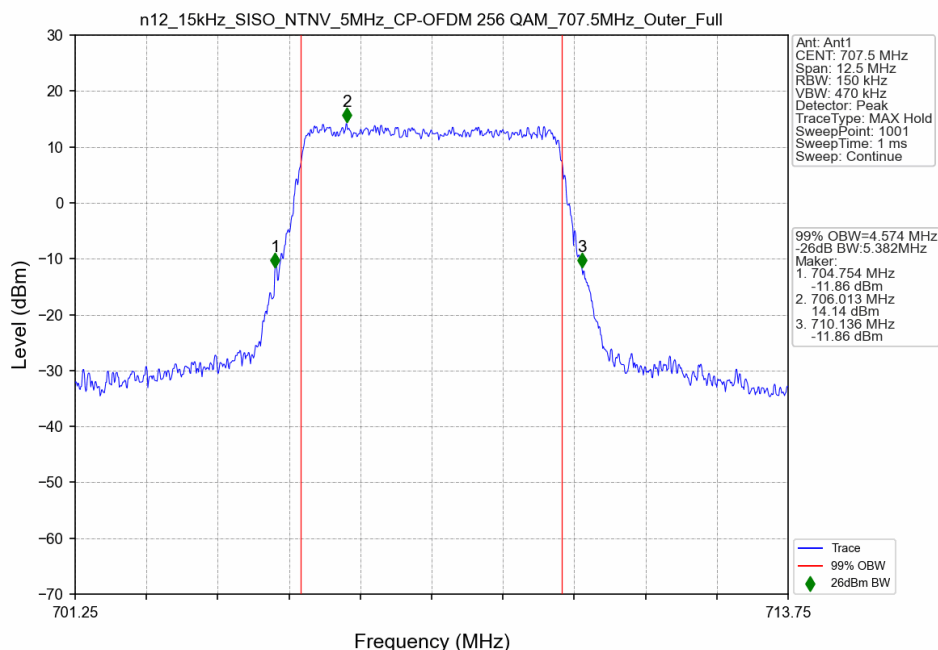
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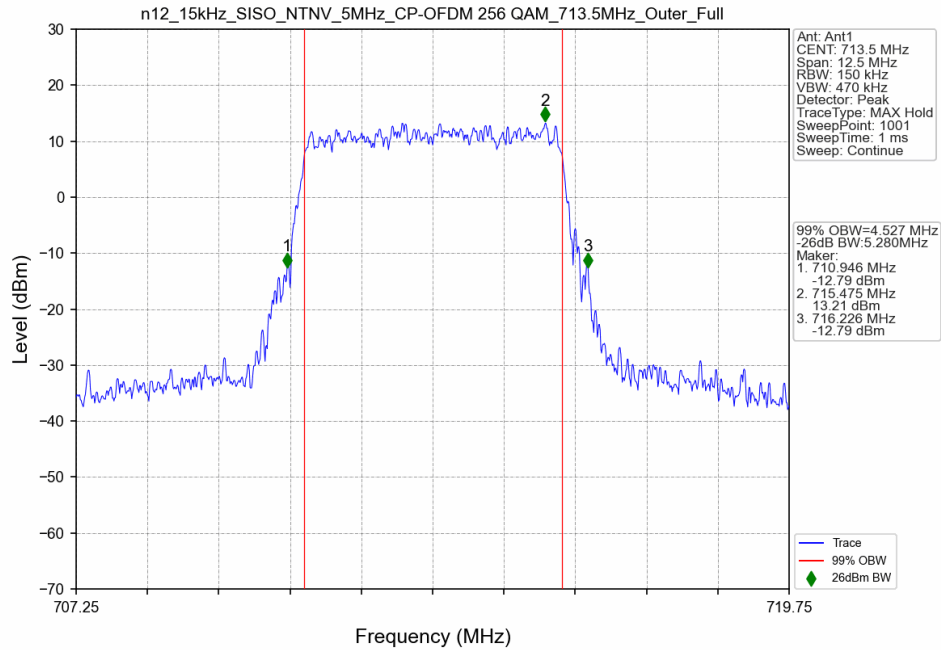
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n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_707.5MHz\_Outer\_Full



### n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_713.5MHz\_Outer\_Full



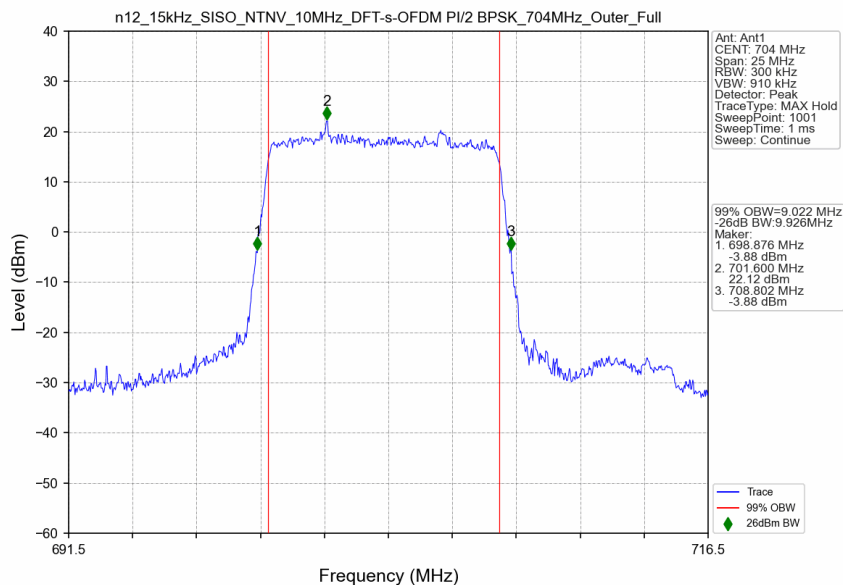
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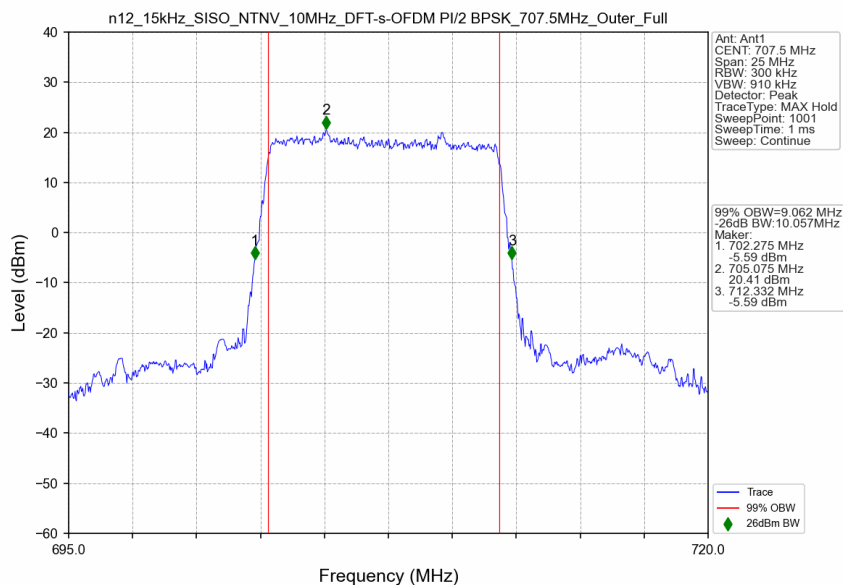
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### 3.2.2 15k\_SISO\_10MHz\_NTNV

n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_704MHz\_Outer\_Full

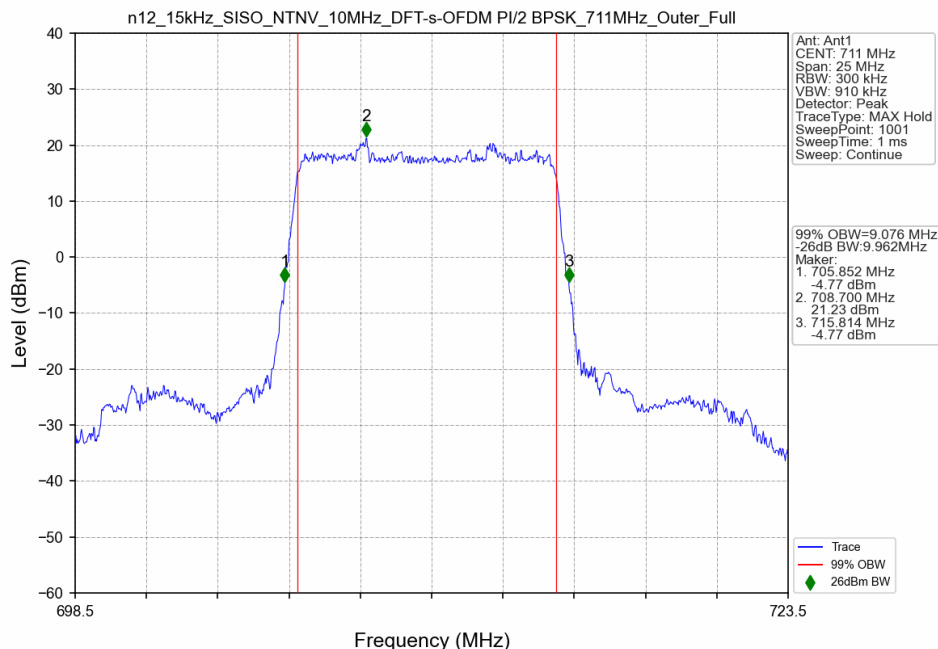


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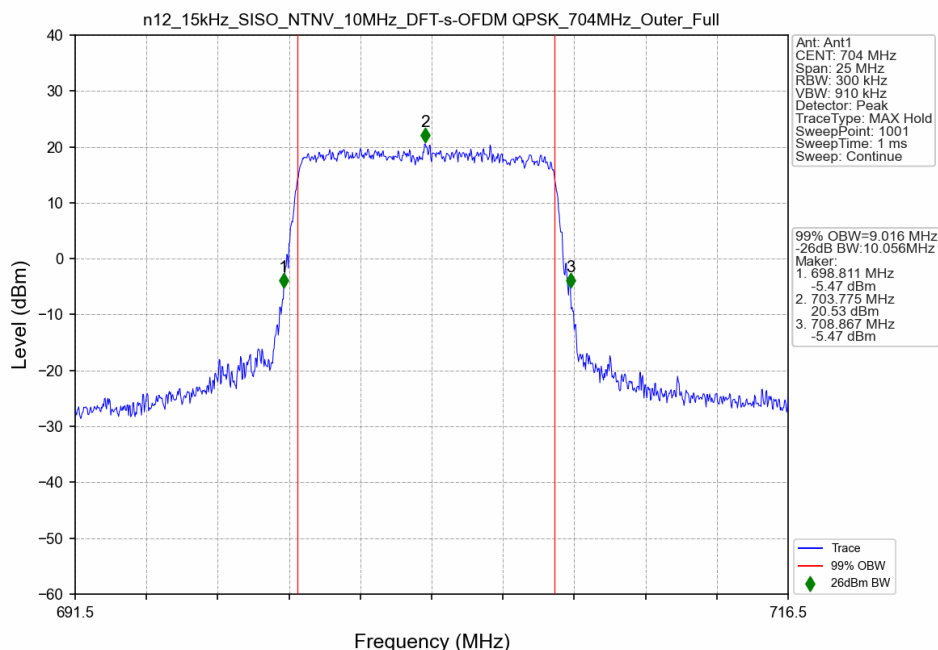




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### n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_704MHz\_Outer\_Full

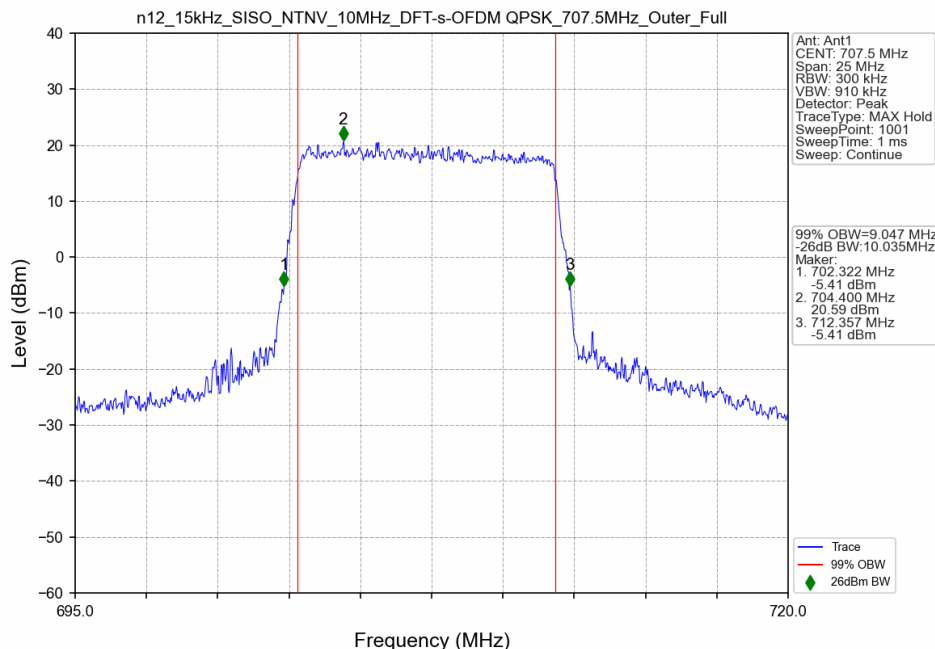


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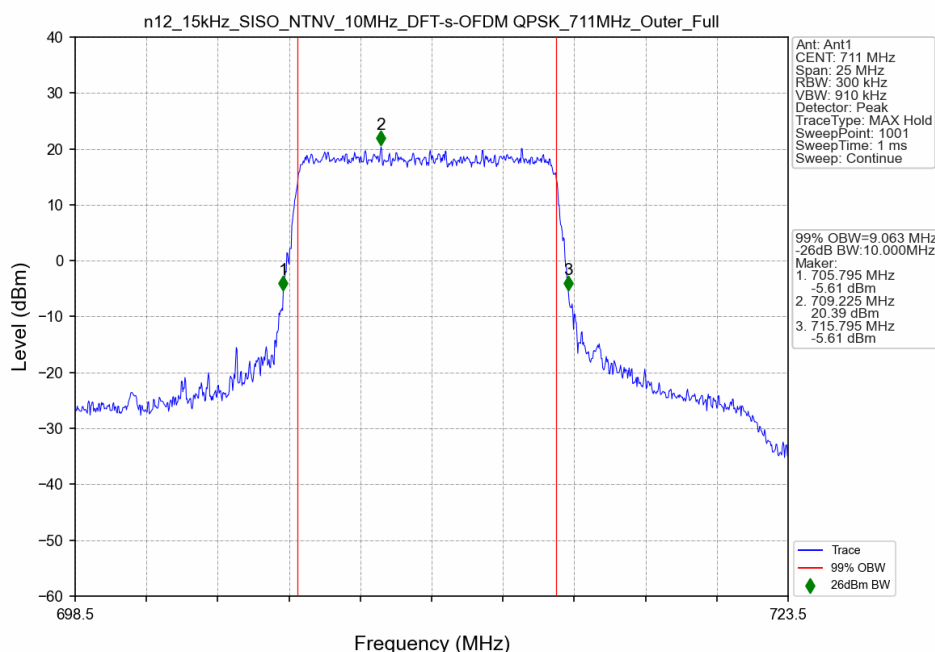
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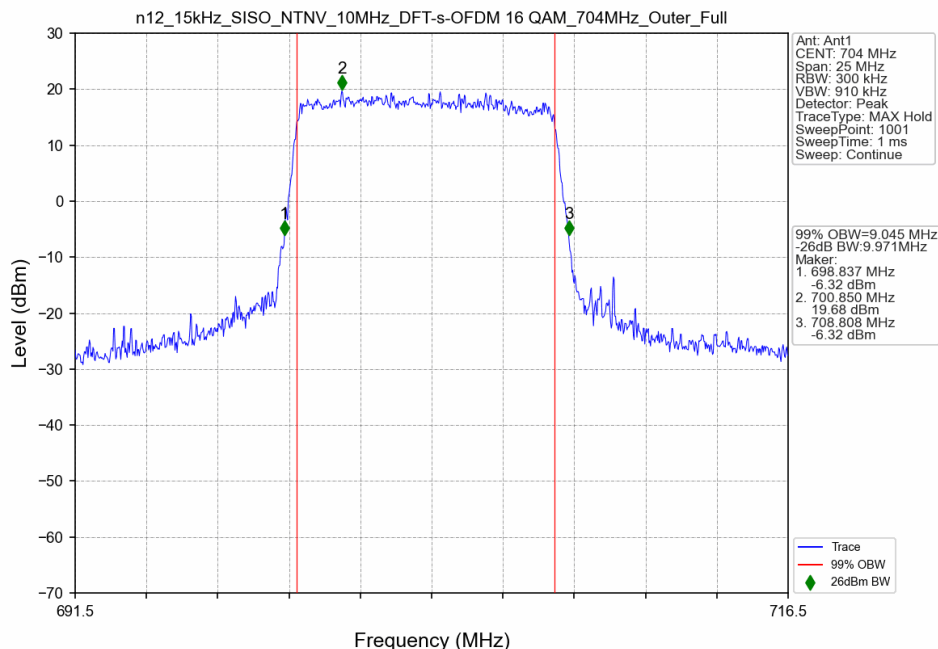
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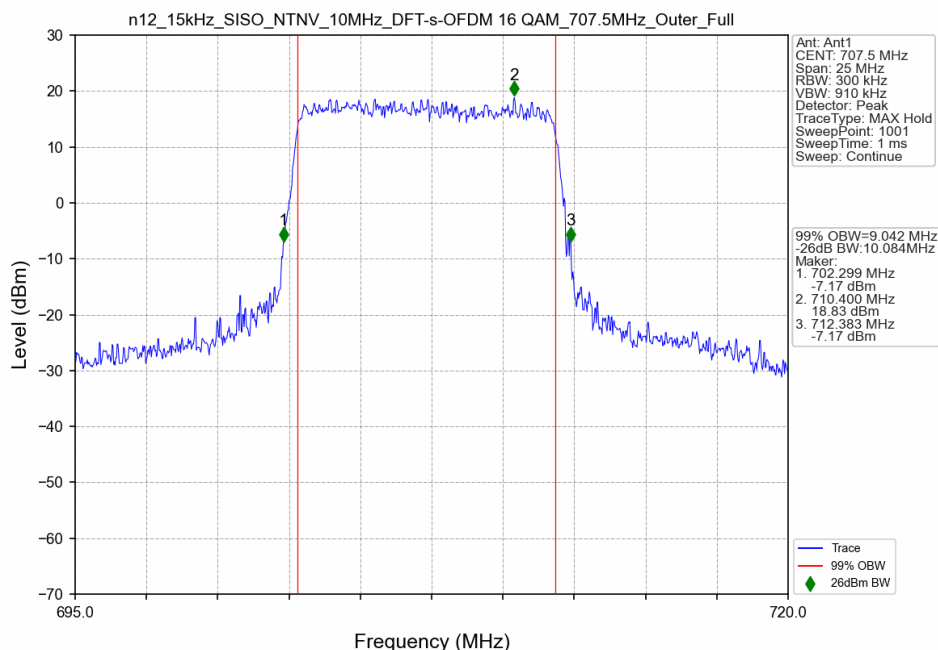
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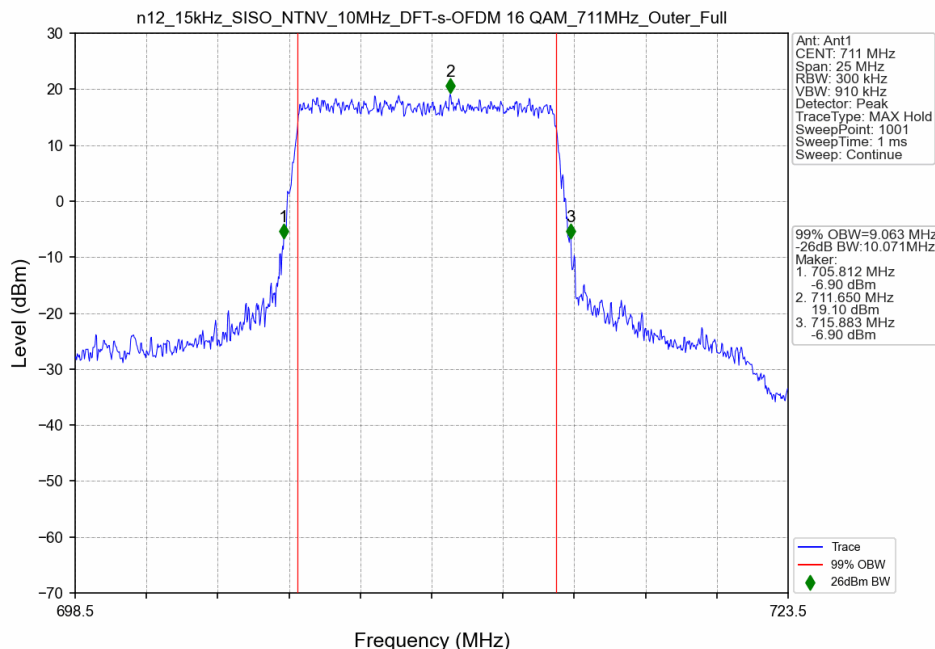
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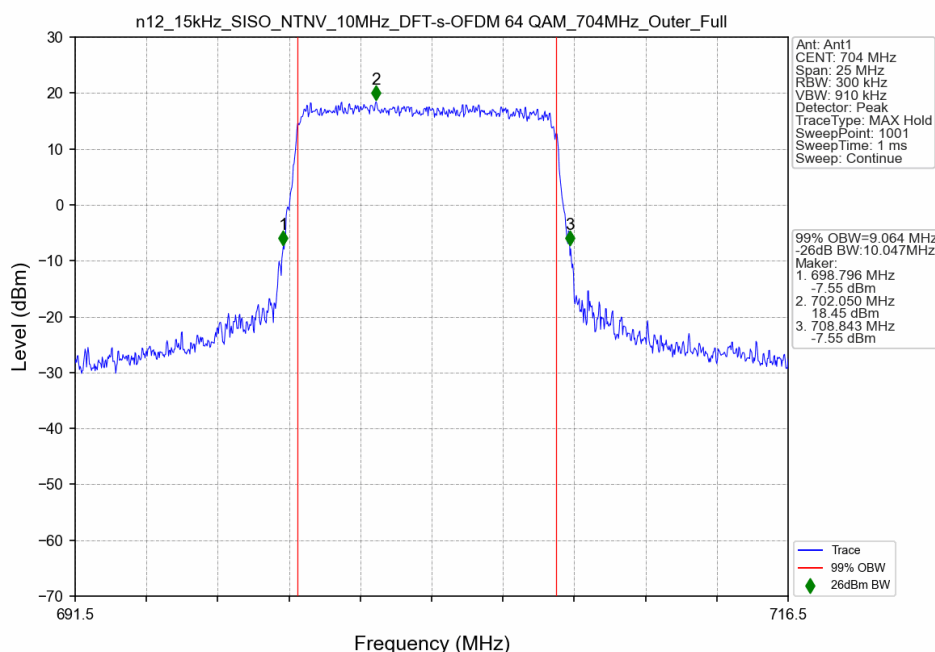
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n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_711MHz\_Outer\_Full



n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_704MHz\_Outer\_Full



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