

# Appendix C.3

## NR Band n12



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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 NTVN										
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	23.19	/	/	25.29	/	/	<=34.77	Pass
		Edge_1RB_Right	22.95	/	/	25.05	/	/	<=34.77	Pass
		Outer_Full	23.06	/	/	25.16	/	/	<=34.77	Pass
		Inner_Full	23.06	/	/	25.16	/	/	<=34.77	Pass
		Inner_1RB_Left	23.21	/	/	25.31	/	/	<=34.77	Pass
		Inner_1RB_Right	22.93	/	/	25.03	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.90	/	/	25.00	/	/	<=34.77	Pass
		Edge_1RB_Right	22.87	/	/	24.97	/	/	<=34.77	Pass
		Outer_Full	22.95	/	/	25.05	/	/	<=34.77	Pass
		Inner_Full	22.99	/	/	25.09	/	/	<=34.77	Pass
		Inner_1RB_Left	22.90	/	/	25.00	/	/	<=34.77	Pass
		Inner_1RB_Right	22.96	/	/	25.06	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	713.5	Edge_1RB_Left	22.80	/	/	24.90	/	/	<=34.77	Pass
		Edge_1RB_Right	22.72	/	/	24.82	/	/	<=34.77	Pass
		Outer_Full	22.72	/	/	24.82	/	/	<=34.77	Pass
		Inner_Full	22.75	/	/	24.85	/	/	<=34.77	Pass
		Inner_1RB_Left	22.81	/	/	24.91	/	/	<=34.77	Pass
		Inner_1RB_Right	22.65	/	/	24.75	/	/	<=34.77	Pass
	701.5	Edge_1RB_Left	23.10	/	/	25.20	/	/	<=34.77	Pass
		Edge_1RB_Right	22.99	/	/	25.09	/	/	<=34.77	Pass
		Outer_Full	23.17	/	/	25.27	/	/	<=34.77	Pass
		Inner_Full	23.12	/	/	25.22	/	/	<=34.77	Pass
		Inner_1RB_Left	23.18	/	/	25.28	/	/	<=34.77	Pass
		Inner_1RB_Right	23.04	/	/	25.14	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.83	/	/	24.93	/	/	<=34.77	Pass
		Edge_1RB_Right	22.85	/	/	24.95	/	/	<=34.77	Pass
		Outer_Full	22.91	/	/	25.01	/	/	<=34.77	Pass
		Inner_Full	23.06	/	/	25.16	/	/	<=34.77	Pass
		Inner_1RB_Left	22.79	/	/	24.89	/	/	<=34.77	Pass



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	713.5	Inner_1RB_Right	22.85	/	/	24.95	/	/	<=34.77	Pass
		Edge_1RB_Left	22.74	/	/	24.84	/	/	<=34.77	Pass
		Edge_1RB_Right	22.76	/	/	24.86	/	/	<=34.77	Pass
		Outer_Full	22.73	/	/	24.83	/	/	<=34.77	Pass
		Inner_Full	22.79	/	/	24.89	/	/	<=34.77	Pass
		Inner_1RB_Left	22.77	/	/	24.87	/	/	<=34.77	Pass
		Inner_1RB_Right	22.62	/	/	24.72	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	701.5	Edge_1RB_Left	22.09	/	/	24.19	/	/	<=34.77	Pass
		Edge_1RB_Right	22.05	/	/	24.15	/	/	<=34.77	Pass
		Outer_Full	22.17	/	/	24.27	/	/	<=34.77	Pass
		Inner_Full	23.12	/	/	25.22	/	/	<=34.77	Pass
		Inner_1RB_Left	23.14	/	/	25.24	/	/	<=34.77	Pass
		Inner_1RB_Right	22.97	/	/	25.07	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.80	/	/	23.90	/	/	<=34.77	Pass
		Edge_1RB_Right	22.08	/	/	24.18	/	/	<=34.77	Pass
		Outer_Full	21.83	/	/	23.93	/	/	<=34.77	Pass
		Inner_Full	22.86	/	/	24.96	/	/	<=34.77	Pass
		Inner_1RB_Left	22.87	/	/	24.97	/	/	<=34.77	Pass
		Inner_1RB_Right	22.99	/	/	25.09	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	713.5	Edge_1RB_Left	21.60	/	/	23.70	/	/	<=34.77	Pass
		Edge_1RB_Right	21.43	/	/	23.53	/	/	<=34.77	Pass
		Outer_Full	21.67	/	/	23.77	/	/	<=34.77	Pass
		Inner_Full	22.80	/	/	24.90	/	/	<=34.77	Pass
		Inner_1RB_Left	22.57	/	/	24.67	/	/	<=34.77	Pass
		Inner_1RB_Right	23.01	/	/	25.11	/	/	<=34.77	Pass
	701.5	Edge_1RB_Left	21.64	/	/	23.74	/	/	<=34.77	Pass
		Edge_1RB_Right	21.56	/	/	23.66	/	/	<=34.77	Pass
		Outer_Full	21.55	/	/	23.65	/	/	<=34.77	Pass
		Inner_Full	21.66	/	/	23.76	/	/	<=34.77	Pass
		Inner_1RB_Left	21.52	/	/	23.62	/	/	<=34.77	Pass
		Inner_1RB_Right	21.40	/	/	23.50	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.43	/	/	23.53	/	/	<=34.77	Pass
		Edge_1RB_Right	21.41	/	/	23.51	/	/	<=34.77	Pass
		Outer_Full	21.32	/	/	23.42	/	/	<=34.77	Pass
		Inner_Full	21.47	/	/	23.57	/	/	<=34.77	Pass
		Inner_1RB_Left	21.41	/	/	23.51	/	/	<=34.77	Pass
		Inner_1RB_Right	21.55	/	/	23.65	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	21.31	/	/	23.41	/	/	<=34.77	Pass



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		Edge_1RB_Right	21.14	/	/	23.24	/	/	<=34.77	Pass
		Outer_Full	21.19	/	/	23.29	/	/	<=34.77	Pass
		Inner_Full	21.26	/	/	23.36	/	/	<=34.77	Pass
		Inner_1RB_Left	21.39	/	/	23.49	/	/	<=34.77	Pass
		Inner_1RB_Right	21.09	/	/	23.19	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	701.5	Edge_1RB_Left	19.78	/	/	21.88	/	/	<=34.77	Pass
		Edge_1RB_Right	19.42	/	/	21.52	/	/	<=34.77	Pass
		Outer_Full	19.53	/	/	21.63	/	/	<=34.77	Pass
		Inner_Full	19.57	/	/	21.67	/	/	<=34.77	Pass
		Inner_1RB_Left	19.58	/	/	21.68	/	/	<=34.77	Pass
		Inner_1RB_Right	19.43	/	/	21.53	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	19.37	/	/	21.47	/	/	<=34.77	Pass
		Edge_1RB_Right	19.46	/	/	21.56	/	/	<=34.77	Pass
		Outer_Full	19.35	/	/	21.45	/	/	<=34.77	Pass
		Inner_Full	19.40	/	/	21.50	/	/	<=34.77	Pass
		Inner_1RB_Left	19.58	/	/	21.68	/	/	<=34.77	Pass
		Inner_1RB_Right	19.60	/	/	21.70	/	/	<=34.77	Pass
CP-OFDM QPSK	713.5	Edge_1RB_Left	19.09	/	/	21.19	/	/	<=34.77	Pass
		Edge_1RB_Right	19.21	/	/	21.31	/	/	<=34.77	Pass
		Outer_Full	19.28	/	/	21.38	/	/	<=34.77	Pass
		Inner_Full	19.14	/	/	21.24	/	/	<=34.77	Pass
		Inner_1RB_Left	19.11	/	/	21.21	/	/	<=34.77	Pass
		Inner_1RB_Right	19.15	/	/	21.25	/	/	<=34.77	Pass
	701.5	Edge_1RB_Left	21.17	/	/	23.27	/	/	<=34.77	Pass
		Edge_1RB_Right	20.94	/	/	23.04	/	/	<=34.77	Pass
		Outer_Full	21.06	/	/	23.16	/	/	<=34.77	Pass
		Inner_Full	22.73	/	/	24.83	/	/	<=34.77	Pass
		Inner_1RB_Left	22.46	/	/	24.56	/	/	<=34.77	Pass
		Inner_1RB_Right	22.27	/	/	24.37	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.95	/	/	23.05	/	/	<=34.77	Pass
		Edge_1RB_Right	20.84	/	/	22.94	/	/	<=34.77	Pass
		Outer_Full	20.85	/	/	22.95	/	/	<=34.77	Pass
		Inner_Full	22.35	/	/	24.45	/	/	<=34.77	Pass
		Inner_1RB_Left	22.25	/	/	24.35	/	/	<=34.77	Pass
		Inner_1RB_Right	22.26	/	/	24.36	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	20.80	/	/	22.90	/	/	<=34.77	Pass
		Edge_1RB_Right	20.70	/	/	22.80	/	/	<=34.77	Pass
		Outer_Full	20.72	/	/	22.82	/	/	<=34.77	Pass



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		Inner_Full	22.27	/	/	24.37	/	/	<=34.77	Pass
		Inner_1RB_Left	22.11	/	/	24.21	/	/	<=34.77	Pass
		Inner_1RB_Right	22.28	/	/	24.38	/	/	<=34.77	Pass
CP-OFDM 16 QAM	701.5	Edge_1RB_Left	21.13	/	/	23.23	/	/	<=34.77	Pass
		Edge_1RB_Right	20.87	/	/	22.97	/	/	<=34.77	Pass
		Outer_Full	21.10	/	/	23.20	/	/	<=34.77	Pass
		Inner_Full	22.07	/	/	24.17	/	/	<=34.77	Pass
		Inner_1RB_Left	21.96	/	/	24.06	/	/	<=34.77	Pass
		Inner_1RB_Right	21.95	/	/	24.05	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.80	/	/	22.90	/	/	<=34.77	Pass
		Edge_1RB_Right	20.63	/	/	22.73	/	/	<=34.77	Pass
		Outer_Full	20.84	/	/	22.94	/	/	<=34.77	Pass
		Inner_Full	21.81	/	/	23.91	/	/	<=34.77	Pass
		Inner_1RB_Left	21.98	/	/	24.08	/	/	<=34.77	Pass
		Inner_1RB_Right	21.73	/	/	23.83	/	/	<=34.77	Pass
CP-OFDM 64 QAM	713.5	Edge_1RB_Left	20.63	/	/	22.73	/	/	<=34.77	Pass
		Edge_1RB_Right	20.50	/	/	22.60	/	/	<=34.77	Pass
		Outer_Full	20.72	/	/	22.82	/	/	<=34.77	Pass
		Inner_Full	21.74	/	/	23.84	/	/	<=34.77	Pass
		Inner_1RB_Left	21.79	/	/	23.89	/	/	<=34.77	Pass
		Inner_1RB_Right	21.50	/	/	23.60	/	/	<=34.77	Pass
	701.5	Edge_1RB_Left	20.67	/	/	22.77	/	/	<=34.77	Pass
		Edge_1RB_Right	20.43	/	/	22.53	/	/	<=34.77	Pass
		Outer_Full	20.53	/	/	22.63	/	/	<=34.77	Pass
		Inner_Full	20.59	/	/	22.69	/	/	<=34.77	Pass
		Inner_1RB_Left	20.90	/	/	23.00	/	/	<=34.77	Pass
		Inner_1RB_Right	20.63	/	/	22.73	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.50	/	/	22.60	/	/	<=34.77	Pass
		Edge_1RB_Right	20.33	/	/	22.43	/	/	<=34.77	Pass
		Outer_Full	20.27	/	/	22.37	/	/	<=34.77	Pass
		Inner_Full	20.62	/	/	22.72	/	/	<=34.77	Pass
		Inner_1RB_Left	20.11	/	/	22.21	/	/	<=34.77	Pass
		Inner_1RB_Right	20.57	/	/	22.67	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	20.23	/	/	22.33	/	/	<=34.77	Pass
		Edge_1RB_Right	19.95	/	/	22.05	/	/	<=34.77	Pass
		Outer_Full	20.12	/	/	22.22	/	/	<=34.77	Pass
		Inner_Full	20.26	/	/	22.36	/	/	<=34.77	Pass
		Inner_1RB_Left	20.35	/	/	22.45	/	/	<=34.77	Pass



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		Inner_1RB_Right	20.04	/	/	22.14	/	/	<=34.77	Pass
CP-OFDM 256 QAM	701.5	Edge_1RB_Left	17.55	/	/	19.65	/	/	<=34.77	Pass
		Edge_1RB_Right	17.33	/	/	19.43	/	/	<=34.77	Pass
		Outer_Full	17.60	/	/	19.70	/	/	<=34.77	Pass
		Inner_Full	17.46	/	/	19.56	/	/	<=34.77	Pass
		Inner_1RB_Left	17.72	/	/	19.82	/	/	<=34.77	Pass
		Inner_1RB_Right	17.55	/	/	19.65	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	17.44	/	/	19.54	/	/	<=34.77	Pass
		Edge_1RB_Right	17.11	/	/	19.21	/	/	<=34.77	Pass
		Outer_Full	17.49	/	/	19.59	/	/	<=34.77	Pass
		Inner_Full	17.48	/	/	19.58	/	/	<=34.77	Pass
		Inner_1RB_Left	17.52	/	/	19.62	/	/	<=34.77	Pass
		Inner_1RB_Right	17.39	/	/	19.49	/	/	<=34.77	Pass
	713.5	Edge_1RB_Left	17.41	/	/	19.51	/	/	<=34.77	Pass
		Edge_1RB_Right	17.21	/	/	19.31	/	/	<=34.77	Pass
		Outer_Full	17.22	/	/	19.32	/	/	<=34.77	Pass
		Inner_Full	17.18	/	/	19.28	/	/	<=34.77	Pass
		Inner_1RB_Left	17.12	/	/	19.22	/	/	<=34.77	Pass
		Inner_1RB_Right	17.24	/	/	19.34	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant1: 4.25dBi;

Note2: ERP=Conducted Power+Antenna Gain-2.15

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

5G NR n12 SCS=15kHz SISO 10MHz NTVN										
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	23.08	/	/	25.18	/	/	<=34.77	Pass
		Edge_1RB_Right	22.75	/	/	24.85	/	/	<=34.77	Pass
		Outer_Full	22.94	/	/	25.04	/	/	<=34.77	Pass
		Inner_Full	22.92	/	/	25.02	/	/	<=34.77	Pass
		Inner_1RB_Left	23.16	/	/	25.26	/	/	<=34.77	Pass
		Inner_1RB_Right	22.75	/	/	24.85	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.10	/	/	25.20	/	/	<=34.77	Pass
		Edge_1RB_Right	22.77	/	/	24.87	/	/	<=34.77	Pass
		Outer_Full	22.92	/	/	25.02	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	25.15	/	/	<=34.77	Pass
		Inner_1RB_Left	23.12	/	/	25.22	/	/	<=34.77	Pass



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	711	Inner_1RB_Right	22.81	/	/	24.91	/	/	<=34.77	Pass
		Edge_1RB_Left	22.95	/	/	25.05	/	/	<=34.77	Pass
		Edge_1RB_Right	22.72	/	/	24.82	/	/	<=34.77	Pass
		Outer_Full	22.89	/	/	24.99	/	/	<=34.77	Pass
		Inner_Full	22.86	/	/	24.96	/	/	<=34.77	Pass
		Inner_1RB_Left	22.89	/	/	24.99	/	/	<=34.77	Pass
		Inner_1RB_Right	22.63	/	/	24.73	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	704	Edge_1RB_Left	23.06	/	/	25.16	/	/	<=34.77	Pass
		Edge_1RB_Right	22.70	/	/	24.80	/	/	<=34.77	Pass
		Outer_Full	22.95	/	/	25.05	/	/	<=34.77	Pass
		Inner_Full	22.99	/	/	25.09	/	/	<=34.77	Pass
		Inner_1RB_Left	23.11	/	/	25.21	/	/	<=34.77	Pass
		Inner_1RB_Right	22.71	/	/	24.81	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.10	/	/	25.20	/	/	<=34.77	Pass
		Edge_1RB_Right	22.80	/	/	24.90	/	/	<=34.77	Pass
		Outer_Full	23.03	/	/	25.13	/	/	<=34.77	Pass
		Inner_Full	22.94	/	/	25.04	/	/	<=34.77	Pass
		Inner_1RB_Left	23.08	/	/	25.18	/	/	<=34.77	Pass
		Inner_1RB_Right	22.89	/	/	24.99	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	711	Edge_1RB_Left	22.92	/	/	25.02	/	/	<=34.77	Pass
		Edge_1RB_Right	22.75	/	/	24.85	/	/	<=34.77	Pass
		Outer_Full	22.82	/	/	24.92	/	/	<=34.77	Pass
		Inner_Full	22.86	/	/	24.96	/	/	<=34.77	Pass
		Inner_1RB_Left	22.94	/	/	25.04	/	/	<=34.77	Pass
		Inner_1RB_Right	22.80	/	/	24.90	/	/	<=34.77	Pass
	704	Edge_1RB_Left	22.00	/	/	24.10	/	/	<=34.77	Pass
		Edge_1RB_Right	21.78	/	/	23.88	/	/	<=34.77	Pass
		Outer_Full	21.98	/	/	24.08	/	/	<=34.77	Pass
		Inner_Full	23.01	/	/	25.11	/	/	<=34.77	Pass
		Inner_1RB_Left	23.33	/	/	25.43	/	/	<=34.77	Pass
		Inner_1RB_Right	22.49	/	/	24.59	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.80	/	/	23.90	/	/	<=34.77	Pass
		Edge_1RB_Right	21.78	/	/	23.88	/	/	<=34.77	Pass
		Outer_Full	21.93	/	/	24.03	/	/	<=34.77	Pass
		Inner_Full	22.95	/	/	25.05	/	/	<=34.77	Pass
		Inner_1RB_Left	23.09	/	/	25.19	/	/	<=34.77	Pass
		Inner_1RB_Right	22.97	/	/	25.07	/	/	<=34.77	Pass
	711	Edge_1RB_Left	21.94	/	/	24.04	/	/	<=34.77	Pass



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		Edge_1RB_Right	21.71	/	/	23.81	/	/	<=34.77	Pass
		Outer_Full	21.80	/	/	23.90	/	/	<=34.77	Pass
		Inner_Full	22.91	/	/	25.01	/	/	<=34.77	Pass
		Inner_1RB_Left	22.77	/	/	24.87	/	/	<=34.77	Pass
		Inner_1RB_Right	22.55	/	/	24.65	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	704	Edge_1RB_Left	21.72	/	/	23.82	/	/	<=34.77	Pass
		Edge_1RB_Right	21.44	/	/	23.54	/	/	<=34.77	Pass
		Outer_Full	21.50	/	/	23.60	/	/	<=34.77	Pass
		Inner_Full	21.45	/	/	23.55	/	/	<=34.77	Pass
		Inner_1RB_Left	21.65	/	/	23.75	/	/	<=34.77	Pass
		Inner_1RB_Right	21.42	/	/	23.52	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.40	/	/	23.50	/	/	<=34.77	Pass
		Edge_1RB_Right	21.29	/	/	23.39	/	/	<=34.77	Pass
		Outer_Full	21.39	/	/	23.49	/	/	<=34.77	Pass
		Inner_Full	21.30	/	/	23.40	/	/	<=34.77	Pass
		Inner_1RB_Left	21.57	/	/	23.67	/	/	<=34.77	Pass
		Inner_1RB_Right	21.27	/	/	23.37	/	/	<=34.77	Pass
	711	Edge_1RB_Left	21.69	/	/	23.79	/	/	<=34.77	Pass
		Edge_1RB_Right	20.93	/	/	23.03	/	/	<=34.77	Pass
		Outer_Full	21.27	/	/	23.37	/	/	<=34.77	Pass
		Inner_Full	21.27	/	/	23.37	/	/	<=34.77	Pass
		Inner_1RB_Left	21.21	/	/	23.31	/	/	<=34.77	Pass
		Inner_1RB_Right	21.12	/	/	23.22	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	704	Edge_1RB_Left	19.79	/	/	21.89	/	/	<=34.77	Pass
		Edge_1RB_Right	19.24	/	/	21.34	/	/	<=34.77	Pass
		Outer_Full	19.45	/	/	21.55	/	/	<=34.77	Pass
		Inner_Full	19.52	/	/	21.62	/	/	<=34.77	Pass
		Inner_1RB_Left	19.65	/	/	21.75	/	/	<=34.77	Pass
		Inner_1RB_Right	19.32	/	/	21.42	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	19.55	/	/	21.65	/	/	<=34.77	Pass
		Edge_1RB_Right	19.25	/	/	21.35	/	/	<=34.77	Pass
		Outer_Full	19.38	/	/	21.48	/	/	<=34.77	Pass
		Inner_Full	19.42	/	/	21.52	/	/	<=34.77	Pass
		Inner_1RB_Left	19.43	/	/	21.53	/	/	<=34.77	Pass
		Inner_1RB_Right	19.34	/	/	21.44	/	/	<=34.77	Pass
	711	Edge_1RB_Left	19.41	/	/	21.51	/	/	<=34.77	Pass
		Edge_1RB_Right	19.47	/	/	21.57	/	/	<=34.77	Pass
		Outer_Full	19.25	/	/	21.35	/	/	<=34.77	Pass

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		Inner_Full	19.32	/	/	21.42	/	/	<=34.77	Pass
		Inner_1RB_Left	19.45	/	/	21.55	/	/	<=34.77	Pass
		Inner_1RB_Right	19.33	/	/	21.43	/	/	<=34.77	Pass
CP-OFDM QPSK	704	Edge_1RB_Left	21.15	/	/	23.25	/	/	<=34.77	Pass
		Edge_1RB_Right	20.71	/	/	22.81	/	/	<=34.77	Pass
		Outer_Full	20.90	/	/	23.00	/	/	<=34.77	Pass
		Inner_Full	22.40	/	/	24.50	/	/	<=34.77	Pass
		Inner_1RB_Left	22.44	/	/	24.54	/	/	<=34.77	Pass
		Inner_1RB_Right	22.09	/	/	24.19	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.03	/	/	23.13	/	/	<=34.77	Pass
		Edge_1RB_Right	20.75	/	/	22.85	/	/	<=34.77	Pass
		Outer_Full	20.90	/	/	23.00	/	/	<=34.77	Pass
		Inner_Full	22.38	/	/	24.48	/	/	<=34.77	Pass
		Inner_1RB_Left	22.36	/	/	24.46	/	/	<=34.77	Pass
		Inner_1RB_Right	22.10	/	/	24.20	/	/	<=34.77	Pass
CP-OFDM 16 QAM	711	Edge_1RB_Left	20.86	/	/	22.96	/	/	<=34.77	Pass
		Edge_1RB_Right	20.70	/	/	22.80	/	/	<=34.77	Pass
		Outer_Full	20.65	/	/	22.75	/	/	<=34.77	Pass
		Inner_Full	22.15	/	/	24.25	/	/	<=34.77	Pass
		Inner_1RB_Left	22.30	/	/	24.40	/	/	<=34.77	Pass
		Inner_1RB_Right	22.11	/	/	24.21	/	/	<=34.77	Pass
	704	Edge_1RB_Left	21.07	/	/	23.17	/	/	<=34.77	Pass
		Edge_1RB_Right	20.45	/	/	22.55	/	/	<=34.77	Pass
		Outer_Full	20.92	/	/	23.02	/	/	<=34.77	Pass
		Inner_Full	21.93	/	/	24.03	/	/	<=34.77	Pass
		Inner_1RB_Left	22.23	/	/	24.33	/	/	<=34.77	Pass
		Inner_1RB_Right	21.81	/	/	23.91	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.02	/	/	23.12	/	/	<=34.77	Pass
		Edge_1RB_Right	20.76	/	/	22.86	/	/	<=34.77	Pass
		Outer_Full	20.93	/	/	23.03	/	/	<=34.77	Pass
		Inner_Full	21.80	/	/	23.90	/	/	<=34.77	Pass
		Inner_1RB_Left	21.92	/	/	24.02	/	/	<=34.77	Pass
		Inner_1RB_Right	21.92	/	/	24.02	/	/	<=34.77	Pass
	711	Edge_1RB_Left	20.91	/	/	23.01	/	/	<=34.77	Pass
		Edge_1RB_Right	20.89	/	/	22.99	/	/	<=34.77	Pass
		Outer_Full	20.76	/	/	22.86	/	/	<=34.77	Pass
		Inner_Full	21.77	/	/	23.87	/	/	<=34.77	Pass
		Inner_1RB_Left	21.79	/	/	23.89	/	/	<=34.77	Pass



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		Inner_1RB_Right	21.48	/	/	23.58	/	/	<=34.77	Pass
CP-OFDM 64 QAM	704	Edge_1RB_Left	20.92	/	/	23.02	/	/	<=34.77	Pass
		Edge_1RB_Right	20.21	/	/	22.31	/	/	<=34.77	Pass
		Outer_Full	20.40	/	/	22.50	/	/	<=34.77	Pass
		Inner_Full	20.52	/	/	22.62	/	/	<=34.77	Pass
		Inner_1RB_Left	20.76	/	/	22.86	/	/	<=34.77	Pass
		Inner_1RB_Right	20.34	/	/	22.44	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	20.59	/	/	22.69	/	/	<=34.77	Pass
		Edge_1RB_Right	20.44	/	/	22.54	/	/	<=34.77	Pass
		Outer_Full	20.48	/	/	22.58	/	/	<=34.77	Pass
		Inner_Full	20.40	/	/	22.50	/	/	<=34.77	Pass
		Inner_1RB_Left	20.39	/	/	22.49	/	/	<=34.77	Pass
		Inner_1RB_Right	20.60	/	/	22.70	/	/	<=34.77	Pass
CP-OFDM 256 QAM	711	Edge_1RB_Left	20.23	/	/	22.33	/	/	<=34.77	Pass
		Edge_1RB_Right	20.11	/	/	22.21	/	/	<=34.77	Pass
		Outer_Full	20.27	/	/	22.37	/	/	<=34.77	Pass
		Inner_Full	20.30	/	/	22.40	/	/	<=34.77	Pass
		Inner_1RB_Left	20.22	/	/	22.32	/	/	<=34.77	Pass
		Inner_1RB_Right	20.66	/	/	22.76	/	/	<=34.77	Pass
	704	Edge_1RB_Left	17.69	/	/	19.79	/	/	<=34.77	Pass
		Edge_1RB_Right	17.32	/	/	19.42	/	/	<=34.77	Pass
		Outer_Full	17.48	/	/	19.58	/	/	<=34.77	Pass
		Inner_Full	17.44	/	/	19.54	/	/	<=34.77	Pass
		Inner_1RB_Left	17.74	/	/	19.84	/	/	<=34.77	Pass
		Inner_1RB_Right	17.40	/	/	19.50	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	17.40	/	/	19.50	/	/	<=34.77	Pass
		Edge_1RB_Right	17.34	/	/	19.44	/	/	<=34.77	Pass
		Outer_Full	17.52	/	/	19.62	/	/	<=34.77	Pass
		Inner_Full	17.39	/	/	19.49	/	/	<=34.77	Pass
		Inner_1RB_Left	17.62	/	/	19.72	/	/	<=34.77	Pass
		Inner_1RB_Right	17.50	/	/	19.60	/	/	<=34.77	Pass
	711	Edge_1RB_Left	17.49	/	/	19.59	/	/	<=34.77	Pass
		Edge_1RB_Right	17.20	/	/	19.30	/	/	<=34.77	Pass
		Outer_Full	17.28	/	/	19.38	/	/	<=34.77	Pass
		Inner_Full	17.26	/	/	19.36	/	/	<=34.77	Pass
		Inner_1RB_Left	17.44	/	/	19.54	/	/	<=34.77	Pass
		Inner_1RB_Right	17.17	/	/	19.27	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant1: 4.25dB;



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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		
DFT-s-OFDM PI/2 BPSK	706.5	Edge_1RB_Left	23.31	/	/	25.41	/	/	<=34.77	Pass
		Edge_1RB_Right	22.91	/	/	25.01	/	/	<=34.77	Pass
		Outer_Full	23.13	/	/	25.23	/	/	<=34.77	Pass
		Inner_Full	23.11	/	/	25.21	/	/	<=34.77	Pass
		Inner_1RB_Left	23.15	/	/	25.25	/	/	<=34.77	Pass
		Inner_1RB_Right	22.92	/	/	25.02	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.24	/	/	25.34	/	/	<=34.77	Pass
		Edge_1RB_Right	22.82	/	/	24.92	/	/	<=34.77	Pass
		Outer_Full	23.07	/	/	25.17	/	/	<=34.77	Pass
		Inner_Full	23.12	/	/	25.22	/	/	<=34.77	Pass
		Inner_1RB_Left	23.08	/	/	25.18	/	/	<=34.77	Pass
		Inner_1RB_Right	22.87	/	/	24.97	/	/	<=34.77	Pass
DFT-s-OFDM QPSK	708.5	Edge_1RB_Left	23.11	/	/	25.21	/	/	<=34.77	Pass
		Edge_1RB_Right	22.79	/	/	24.89	/	/	<=34.77	Pass
		Outer_Full	22.96	/	/	25.06	/	/	<=34.77	Pass
		Inner_Full	22.97	/	/	25.07	/	/	<=34.77	Pass
		Inner_1RB_Left	23.07	/	/	25.17	/	/	<=34.77	Pass
		Inner_1RB_Right	22.83	/	/	24.93	/	/	<=34.77	Pass
	706.5	Edge_1RB_Left	23.17	/	/	25.27	/	/	<=34.77	Pass
		Edge_1RB_Right	22.90	/	/	25.00	/	/	<=34.77	Pass
		Outer_Full	23.00	/	/	25.10	/	/	<=34.77	Pass
		Inner_Full	22.98	/	/	25.08	/	/	<=34.77	Pass
		Inner_1RB_Left	23.16	/	/	25.26	/	/	<=34.77	Pass
		Inner_1RB_Right	22.95	/	/	25.05	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	23.16	/	/	25.26	/	/	<=34.77	Pass
		Edge_1RB_Right	22.87	/	/	24.97	/	/	<=34.77	Pass
		Outer_Full	23.00	/	/	25.10	/	/	<=34.77	Pass
		Inner_Full	23.10	/	/	25.20	/	/	<=34.77	Pass
		Inner_1RB_Left	23.19	/	/	25.29	/	/	<=34.77	Pass
		Inner_1RB_Right	22.89	/	/	24.99	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	23.11	/	/	25.21	/	/	<=34.77	Pass



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		Edge_1RB_Right	22.86	/	/	24.96	/	/	<=34.77	Pass
		Outer_Full	22.97	/	/	25.07	/	/	<=34.77	Pass
		Inner_Full	22.93	/	/	25.03	/	/	<=34.77	Pass
		Inner_1RB_Left	23.06	/	/	25.16	/	/	<=34.77	Pass
		Inner_1RB_Right	22.78	/	/	24.88	/	/	<=34.77	Pass
DFT-s-OFDM 16 QAM	706.5	Edge_1RB_Left	22.08	/	/	24.18	/	/	<=34.77	Pass
		Edge_1RB_Right	21.91	/	/	24.01	/	/	<=34.77	Pass
		Outer_Full	22.06	/	/	24.16	/	/	<=34.77	Pass
		Inner_Full	23.10	/	/	25.20	/	/	<=34.77	Pass
		Inner_1RB_Left	23.39	/	/	25.49	/	/	<=34.77	Pass
		Inner_1RB_Right	22.81	/	/	24.91	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	22.14	/	/	24.24	/	/	<=34.77	Pass
		Edge_1RB_Right	21.96	/	/	24.06	/	/	<=34.77	Pass
		Outer_Full	21.95	/	/	24.05	/	/	<=34.77	Pass
		Inner_Full	23.05	/	/	25.15	/	/	<=34.77	Pass
		Inner_1RB_Left	23.28	/	/	25.38	/	/	<=34.77	Pass
		Inner_1RB_Right	22.97	/	/	25.07	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	22.06	/	/	24.16	/	/	<=34.77	Pass
		Edge_1RB_Right	22.03	/	/	24.13	/	/	<=34.77	Pass
		Outer_Full	21.97	/	/	24.07	/	/	<=34.77	Pass
		Inner_Full	22.96	/	/	25.06	/	/	<=34.77	Pass
		Inner_1RB_Left	22.93	/	/	25.03	/	/	<=34.77	Pass
		Inner_1RB_Right	22.68	/	/	24.78	/	/	<=34.77	Pass
DFT-s-OFDM 64 QAM	706.5	Edge_1RB_Left	21.82	/	/	23.92	/	/	<=34.77	Pass
		Edge_1RB_Right	21.42	/	/	23.52	/	/	<=34.77	Pass
		Outer_Full	21.62	/	/	23.72	/	/	<=34.77	Pass
		Inner_Full	21.45	/	/	23.55	/	/	<=34.77	Pass
		Inner_1RB_Left	21.73	/	/	23.83	/	/	<=34.77	Pass
		Inner_1RB_Right	21.37	/	/	23.47	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.70	/	/	23.80	/	/	<=34.77	Pass
		Edge_1RB_Right	21.26	/	/	23.36	/	/	<=34.77	Pass
		Outer_Full	21.55	/	/	23.65	/	/	<=34.77	Pass
		Inner_Full	21.51	/	/	23.61	/	/	<=34.77	Pass
		Inner_1RB_Left	21.70	/	/	23.80	/	/	<=34.77	Pass
		Inner_1RB_Right	21.42	/	/	23.52	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.66	/	/	23.76	/	/	<=34.77	Pass
		Edge_1RB_Right	21.24	/	/	23.34	/	/	<=34.77	Pass
		Outer_Full	21.51	/	/	23.61	/	/	<=34.77	Pass

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		Inner_Full	21.51	/	/	23.61	/	/	<=34.77	Pass
		Inner_1RB_Left	21.73	/	/	23.83	/	/	<=34.77	Pass
		Inner_1RB_Right	21.48	/	/	23.58	/	/	<=34.77	Pass
DFT-s-OFDM 256 QAM	706.5	Edge_1RB_Left	19.68	/	/	21.78	/	/	<=34.77	Pass
		Edge_1RB_Right	19.60	/	/	21.70	/	/	<=34.77	Pass
		Outer_Full	19.59	/	/	21.69	/	/	<=34.77	Pass
		Inner_Full	19.59	/	/	21.69	/	/	<=34.77	Pass
		Inner_1RB_Left	19.88	/	/	21.98	/	/	<=34.77	Pass
		Inner_1RB_Right	19.45	/	/	21.55	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	19.82	/	/	21.92	/	/	<=34.77	Pass
		Edge_1RB_Right	19.31	/	/	21.41	/	/	<=34.77	Pass
		Outer_Full	19.58	/	/	21.68	/	/	<=34.77	Pass
		Inner_Full	19.53	/	/	21.63	/	/	<=34.77	Pass
		Inner_1RB_Left	19.68	/	/	21.78	/	/	<=34.77	Pass
		Inner_1RB_Right	19.34	/	/	21.44	/	/	<=34.77	Pass
CP-OFDM QPSK	708.5	Edge_1RB_Left	19.61	/	/	21.71	/	/	<=34.77	Pass
		Edge_1RB_Right	19.45	/	/	21.55	/	/	<=34.77	Pass
		Outer_Full	19.45	/	/	21.55	/	/	<=34.77	Pass
		Inner_Full	19.47	/	/	21.57	/	/	<=34.77	Pass
		Inner_1RB_Left	19.57	/	/	21.67	/	/	<=34.77	Pass
		Inner_1RB_Right	19.40	/	/	21.50	/	/	<=34.77	Pass
	706.5	Edge_1RB_Left	21.22	/	/	23.32	/	/	<=34.77	Pass
		Edge_1RB_Right	20.93	/	/	23.03	/	/	<=34.77	Pass
		Outer_Full	21.10	/	/	23.20	/	/	<=34.77	Pass
		Inner_Full	22.56	/	/	24.66	/	/	<=34.77	Pass
		Inner_1RB_Left	22.60	/	/	24.70	/	/	<=34.77	Pass
		Inner_1RB_Right	22.30	/	/	24.40	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.28	/	/	23.38	/	/	<=34.77	Pass
		Edge_1RB_Right	20.85	/	/	22.95	/	/	<=34.77	Pass
		Outer_Full	20.99	/	/	23.09	/	/	<=34.77	Pass
		Inner_Full	22.51	/	/	24.61	/	/	<=34.77	Pass
		Inner_1RB_Left	22.58	/	/	24.68	/	/	<=34.77	Pass
		Inner_1RB_Right	22.27	/	/	24.37	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	21.18	/	/	23.28	/	/	<=34.77	Pass
		Edge_1RB_Right	20.68	/	/	22.78	/	/	<=34.77	Pass
		Outer_Full	20.99	/	/	23.09	/	/	<=34.77	Pass
		Inner_Full	22.48	/	/	24.58	/	/	<=34.77	Pass
		Inner_1RB_Left	22.43	/	/	24.53	/	/	<=34.77	Pass



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		Inner_1RB_Right	22.06	/	/	24.16	/	/	<=34.77	Pass
CP-OFDM 16 QAM	706.5	Edge_1RB_Left	20.97	/	/	23.07	/	/	<=34.77	Pass
		Edge_1RB_Right	20.91	/	/	23.01	/	/	<=34.77	Pass
		Outer_Full	20.93	/	/	23.03	/	/	<=34.77	Pass
		Inner_Full	21.96	/	/	24.06	/	/	<=34.77	Pass
		Inner_1RB_Left	22.07	/	/	24.17	/	/	<=34.77	Pass
		Inner_1RB_Right	21.91	/	/	24.01	/	/	<=34.77	Pass
	707.5	Edge_1RB_Left	21.22	/	/	23.32	/	/	<=34.77	Pass
		Edge_1RB_Right	20.82	/	/	22.92	/	/	<=34.77	Pass
		Outer_Full	21.08	/	/	23.18	/	/	<=34.77	Pass
		Inner_Full	22.00	/	/	24.10	/	/	<=34.77	Pass
		Inner_1RB_Left	22.12	/	/	24.22	/	/	<=34.77	Pass
		Inner_1RB_Right	21.78	/	/	23.88	/	/	<=34.77	Pass
CP-OFDM 64 QAM	708.5	Edge_1RB_Left	21.26	/	/	23.36	/	/	<=34.77	Pass
		Edge_1RB_Right	20.76	/	/	22.86	/	/	<=34.77	Pass
		Outer_Full	21.00	/	/	23.10	/	/	<=34.77	Pass
		Inner_Full	22.02	/	/	24.12	/	/	<=34.77	Pass
		Inner_1RB_Left	22.43	/	/	24.53	/	/	<=34.77	Pass
		Inner_1RB_Right	21.35	/	/	23.45	/	/	<=34.77	Pass
	706.5	Edge_1RB_Left	20.53	/	/	22.63	/	/	<=34.77	Pass
		Edge_1RB_Right	20.28	/	/	22.38	/	/	<=34.77	Pass
		Outer_Full	20.53	/	/	22.63	/	/	<=34.77	Pass
		Inner_Full	20.54	/	/	22.64	/	/	<=34.77	Pass
		Inner_1RB_Left	20.55	/	/	22.65	/	/	<=34.77	Pass
		Inner_1RB_Right	20.46	/	/	22.56	/	/	<=34.77	Pass
CP-OFDM 256 QAM	707.5	Edge_1RB_Left	20.50	/	/	22.60	/	/	<=34.77	Pass
		Edge_1RB_Right	20.42	/	/	22.52	/	/	<=34.77	Pass
		Outer_Full	20.52	/	/	22.62	/	/	<=34.77	Pass
		Inner_Full	20.61	/	/	22.71	/	/	<=34.77	Pass
		Inner_1RB_Left	20.59	/	/	22.69	/	/	<=34.77	Pass
		Inner_1RB_Right	20.49	/	/	22.59	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	20.55	/	/	22.65	/	/	<=34.77	Pass
		Edge_1RB_Right	20.51	/	/	22.61	/	/	<=34.77	Pass
		Outer_Full	20.50	/	/	22.60	/	/	<=34.77	Pass
		Inner_Full	20.49	/	/	22.59	/	/	<=34.77	Pass
		Inner_1RB_Left	20.44	/	/	22.54	/	/	<=34.77	Pass
		Inner_1RB_Right	20.37	/	/	22.47	/	/	<=34.77	Pass
CP-OFDM 256 QAM	706.5	Edge_1RB_Left	17.66	/	/	19.76	/	/	<=34.77	Pass



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	707.5	Edge_1RB_Right	17.49	/	/	19.59	/	/	<=34.77	Pass
		Outer_Full	17.53	/	/	19.63	/	/	<=34.77	Pass
		Inner_Full	17.60	/	/	19.70	/	/	<=34.77	Pass
		Inner_1RB_Left	17.77	/	/	19.87	/	/	<=34.77	Pass
		Inner_1RB_Right	17.63	/	/	19.73	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	17.73	/	/	19.83	/	/	<=34.77	Pass
		Edge_1RB_Right	17.55	/	/	19.65	/	/	<=34.77	Pass
		Outer_Full	17.63	/	/	19.73	/	/	<=34.77	Pass
		Inner_Full	17.62	/	/	19.72	/	/	<=34.77	Pass
		Inner_1RB_Left	17.66	/	/	19.76	/	/	<=34.77	Pass
		Inner_1RB_Right	17.26	/	/	19.36	/	/	<=34.77	Pass
	708.5	Edge_1RB_Left	17.78	/	/	19.88	/	/	<=34.77	Pass
		Edge_1RB_Right	17.44	/	/	19.54	/	/	<=34.77	Pass
		Outer_Full	17.49	/	/	19.59	/	/	<=34.77	Pass
		Inner_Full	17.53	/	/	19.63	/	/	<=34.77	Pass
		Inner_1RB_Left	17.68	/	/	19.78	/	/	<=34.77	Pass
		Inner_1RB_Right	17.41	/	/	19.51	/	/	<=34.77	Pass

Note1: Antenna Gain: Ant1: 4.25dBi;

Note2: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 15k\_SISO\_15MHz

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	-1.80	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-5.70	-0.0081	>=-2.5 & <=2.5	Pass
			0	NV	-2.90	-0.0041	>=-2.5 & <=2.5	Pass
			10	NV	-2.30	-0.0033	>=-2.5 & <=2.5	Pass
			20	NV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0093	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0057	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	707.5	Outer_Full	20	LV	-5.40	-0.0076	>=-2.5 & <=2.5	Pass



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				HV	-2.60	-0.0037	>=-2.5 & <=2.5	Pass
0	NV	-6.80	-0.0096	>=-2.5 & <=2.5	Pass			
10	NV	-5.40	-0.0076	>=-2.5 & <=2.5	Pass			
20	NV	-3.70	-0.0052	>=-2.5 & <=2.5	Pass			
30	NV	-3.60	-0.0051	>=-2.5 & <=2.5	Pass			
40	NV	-5.70	-0.0081	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	707.5	Outer_Full	20	LV	-1.70	-0.0024	>=-2.5 & <=2.5	Pass
				HV	-4.00	-0.0057	>=-2.5 & <=2.5	Pass
			0	NV	-8.30	-0.0117	>=-2.5 & <=2.5	Pass
			10	NV	-4.50	-0.0064	>=-2.5 & <=2.5	Pass
			20	NV	-6.70	-0.0095	>=-2.5 & <=2.5	Pass
			30	NV	-5.60	-0.0079	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0044	>=-2.5 & <=2.5	Pass
			20	LV	-2.80	-0.0040	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	707.5	Outer_Full		HV	-6.20	-0.0088	>=-2.5 & <=2.5	Pass
			0	NV	-7.70	-0.0109	>=-2.5 & <=2.5	Pass
			10	NV	-4.10	-0.0058	>=-2.5 & <=2.5	Pass
			20	NV	-4.80	-0.0068	>=-2.5 & <=2.5	Pass
			30	NV	-8.10	-0.0114	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0099	>=-2.5 & <=2.5	Pass
			20	LV	-0.80	-0.0011	>=-2.5 & <=2.5	Pass
				HV	-3.20	-0.0045	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 256 QAM	707.5	Outer_Full	0	NV	-2.20	-0.0031	>=-2.5 & <=2.5	Pass
			10	NV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			20	NV	1.90	0.0027	>=-2.5 & <=2.5	Pass
			30	NV	-3.80	-0.0054	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0082	>=-2.5 & <=2.5	Pass
			20	LV	-3.00	-0.0042	>=-2.5 & <=2.5	Pass
				HV	3.70	0.0052	>=-2.5 & <=2.5	Pass
			0	NV	-4.40	-0.0062	>=-2.5 & <=2.5	Pass
CP-OFDM QPSK	707.5	Outer_Full	10	NV	-5.20	-0.0073	>=-2.5 & <=2.5	Pass
			20	NV	1.00	0.0014	>=-2.5 & <=2.5	Pass
			30	NV	2.80	0.0040	>=-2.5 & <=2.5	Pass
			40	NV	-10.20	-0.0144	>=-2.5 & <=2.5	Pass
			20	LV	-3.20	-0.0045	>=-2.5 & <=2.5	Pass
				HV	-4.10	-0.0058	>=-2.5 & <=2.5	Pass
			0	NV	-4.20	-0.0059	>=-2.5 & <=2.5	Pass
			10	NV	-4.30	-0.0061	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	707.5	Outer_Full						

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			20	NV	-6.80	-0.0096	>=-2.5 & <=2.5	Pass
			30	NV	-1.50	-0.0021	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0064	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	707.5	Outer_Full	20	LV	-3.60	-0.0051	>=-2.5 & <=2.5	Pass
				HV	2.30	0.0033	>=-2.5 & <=2.5	Pass
			0	NV	-3.50	-0.0049	>=-2.5 & <=2.5	Pass
			10	NV	-0.80	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-2.10	-0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-5.30	-0.0075	>=-2.5 & <=2.5	Pass
			40	NV	-5.40	-0.0076	>=-2.5 & <=2.5	Pass
			20	LV	-2.50	-0.0035	>=-2.5 & <=2.5	Pass
				HV	-2.00	-0.0028	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	707.5	Outer_Full	0	NV	-5.30	-0.0075	>=-2.5 & <=2.5	Pass
			10	NV	-2.70	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-3.80	-0.0054	>=-2.5 & <=2.5	Pass
			30	NV	-4.30	-0.0061	>=-2.5 & <=2.5	Pass
			40	NV	-3.10	-0.0044	>=-2.5 & <=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 Ntnv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	701.5	Outer_Full	4.57	5.28	/	Pass
	707.5	Outer_Full	4.66	6.66	/	Pass
	713.5	Outer_Full	4.57	5.34	/	Pass
DFT-s-OFDM QPSK	701.5	Outer_Full	4.56	5.36	/	Pass
	707.5	Outer_Full	4.67	6.32	/	Pass
	713.5	Outer_Full	4.58	5.38	/	Pass
DFT-s-OFDM 16 QAM	701.5	Outer_Full	4.58	5.38	/	Pass
	707.5	Outer_Full	4.64	5.95	/	Pass
	713.5	Outer_Full	4.58	5.44	/	Pass
DFT-s-OFDM 64 QAM	701.5	Outer_Full	4.56	5.31	/	Pass
	707.5	Outer_Full	4.66	6.17	/	Pass



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	713.5	Outer_Full	4.57	5.39	/	Pass
DFT-s-OFDM 256 QAM	701.5	Outer_Full	4.57	5.40	/	Pass
	707.5	Outer_Full	4.61	5.46	/	Pass
	713.5	Outer_Full	4.60	5.42	/	Pass
CP-OFDM QPSK	701.5	Outer_Full	4.56	5.38	/	Pass
	707.5	Outer_Full	4.67	6.98	/	Pass
	713.5	Outer_Full	4.57	5.39	/	Pass
CP-OFDM 16 QAM	701.5	Outer_Full	4.56	5.35	/	Pass
	707.5	Outer_Full	4.66	7.02	/	Pass
	713.5	Outer_Full	4.56	5.42	/	Pass
CP-OFDM 64 QAM	701.5	Outer_Full	4.57	5.29	/	Pass
	707.5	Outer_Full	4.64	6.68	/	Pass
	713.5	Outer_Full	4.56	5.39	/	Pass
CP-OFDM 256 QAM	701.5	Outer_Full	4.56	5.37	/	Pass
	707.5	Outer_Full	4.59	5.40	/	Pass
	713.5	Outer_Full	4.57	5.32	/	Pass

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

5G NR n12 SCS=15kHz SISO 10MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	704	Outer_Full	9.03	9.91	/	Pass
	707.5	Outer_Full	9.18	10.19	/	Pass
	711	Outer_Full	9.05	9.94	/	Pass
DFT-s-OFDM QPSK	704	Outer_Full	9.00	9.93	/	Pass
	707.5	Outer_Full	9.22	10.40	/	Pass
	711	Outer_Full	9.08	10.07	/	Pass
DFT-s-OFDM 16 QAM	704	Outer_Full	9.05	9.93	/	Pass
	707.5	Outer_Full	9.19	10.32	/	Pass
	711	Outer_Full	9.09	9.98	/	Pass
DFT-s-OFDM 64 QAM	704	Outer_Full	9.02	10.04	/	Pass
	707.5	Outer_Full	9.16	10.20	/	Pass
	711	Outer_Full	9.05	10.06	/	Pass
DFT-s-OFDM 256 QAM	704	Outer_Full	9.00	10.00	/	Pass
	707.5	Outer_Full	9.12	10.23	/	Pass
	711	Outer_Full	9.09	10.06	/	Pass
CP-OFDM QPSK	704	Outer_Full	9.34	10.33	/	Pass



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	707.5	Outer_Full	9.38	10.42	/	Pass
	711	Outer_Full	9.41	10.42	/	Pass
CP-OFDM 16 QAM	704	Outer_Full	9.33	10.36	/	Pass
	707.5	Outer_Full	9.52	10.62	/	Pass
	711	Outer_Full	9.39	10.41	/	Pass
CP-OFDM 64 QAM	704	Outer_Full	9.36	10.38	/	Pass
	707.5	Outer_Full	9.49	10.57	/	Pass
	711	Outer_Full	9.41	10.43	/	Pass
CP-OFDM 256 QAM	704	Outer_Full	9.35	10.31	/	Pass
	707.5	Outer_Full	9.43	10.54	/	Pass
	711	Outer_Full	9.40	10.38	/	Pass

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

5G NR n12 SCS=15kHz SISO 15MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	706.5	Outer_Full	13.56	14.75	/	Pass
	707.5	Outer_Full	13.56	14.79	/	Pass
	708.5	Outer_Full	13.60	14.85	/	Pass
DFT-s-OFDM QPSK	706.5	Outer_Full	13.54	14.77	/	Pass
	707.5	Outer_Full	13.57	14.81	/	Pass
	708.5	Outer_Full	13.57	14.87	/	Pass
DFT-s-OFDM 16 QAM	706.5	Outer_Full	13.54	14.73	/	Pass
	707.5	Outer_Full	13.57	14.83	/	Pass
	708.5	Outer_Full	13.60	14.77	/	Pass
DFT-s-OFDM 64 QAM	706.5	Outer_Full	13.53	14.82	/	Pass
	707.5	Outer_Full	13.59	14.81	/	Pass
	708.5	Outer_Full	13.56	14.84	/	Pass
DFT-s-OFDM 256 QAM	706.5	Outer_Full	13.56	14.79	/	Pass
	707.5	Outer_Full	13.51	14.90	/	Pass
	708.5	Outer_Full	13.58	14.85	/	Pass
CP-OFDM QPSK	706.5	Outer_Full	14.22	15.49	/	Pass
	707.5	Outer_Full	14.22	15.43	/	Pass
	708.5	Outer_Full	14.25	15.49	/	Pass
CP-OFDM 16 QAM	706.5	Outer_Full	14.22	15.45	/	Pass
	707.5	Outer_Full	14.26	15.70	/	Pass
	708.5	Outer_Full	14.27	15.50	/	Pass



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CP-OFDM 64 QAM	706.5	Outer_Full	14.22	15.36	/	Pass
	707.5	Outer_Full	14.28	15.56	/	Pass
	708.5	Outer_Full	14.31	15.59	/	Pass
CP-OFDM 256 QAM	706.5	Outer_Full	14.22	15.40	/	Pass
	707.5	Outer_Full	14.23	15.54	/	Pass
	708.5	Outer_Full	14.29	15.57	/	Pass



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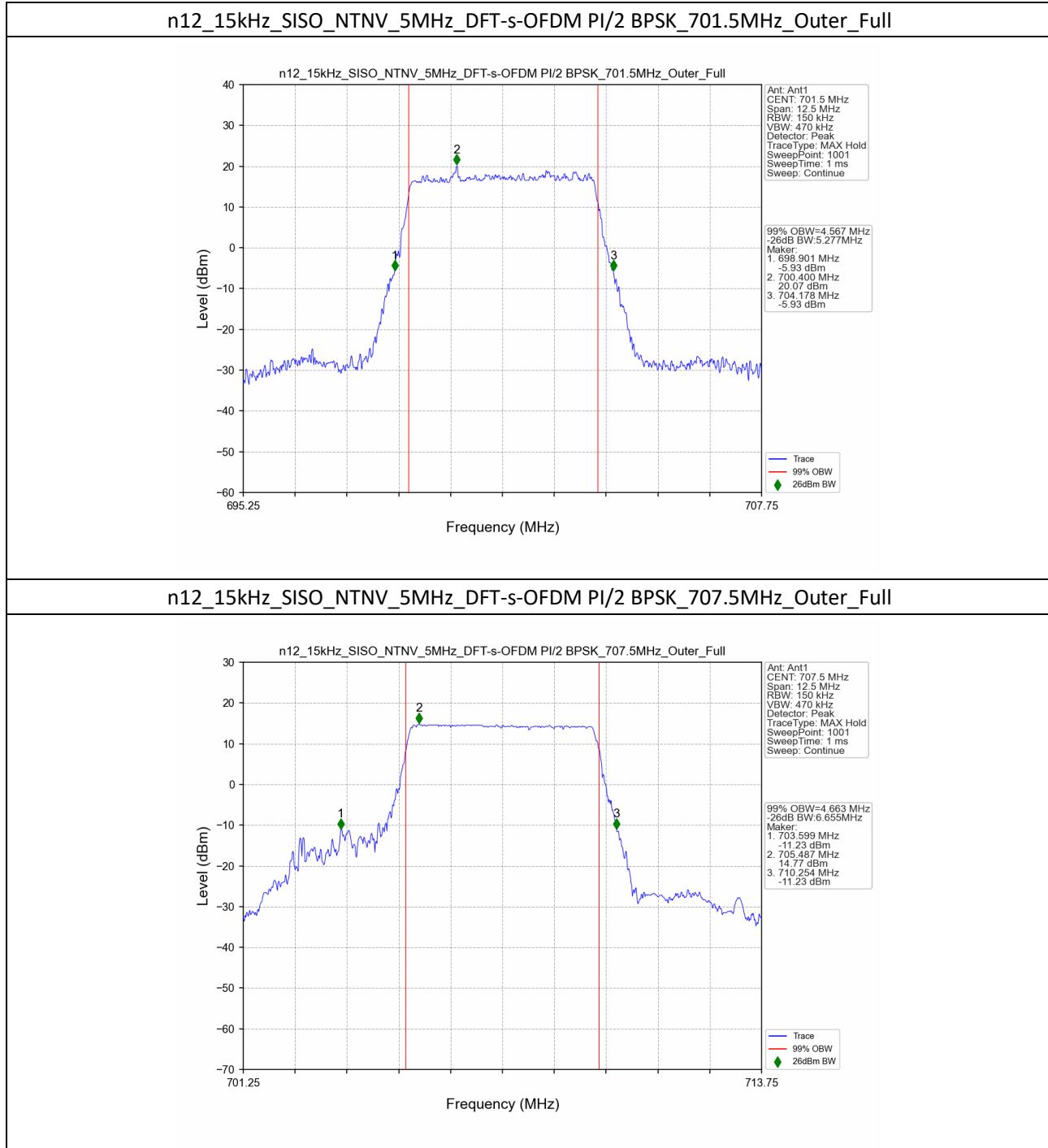
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### 3.2 Test Graph

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



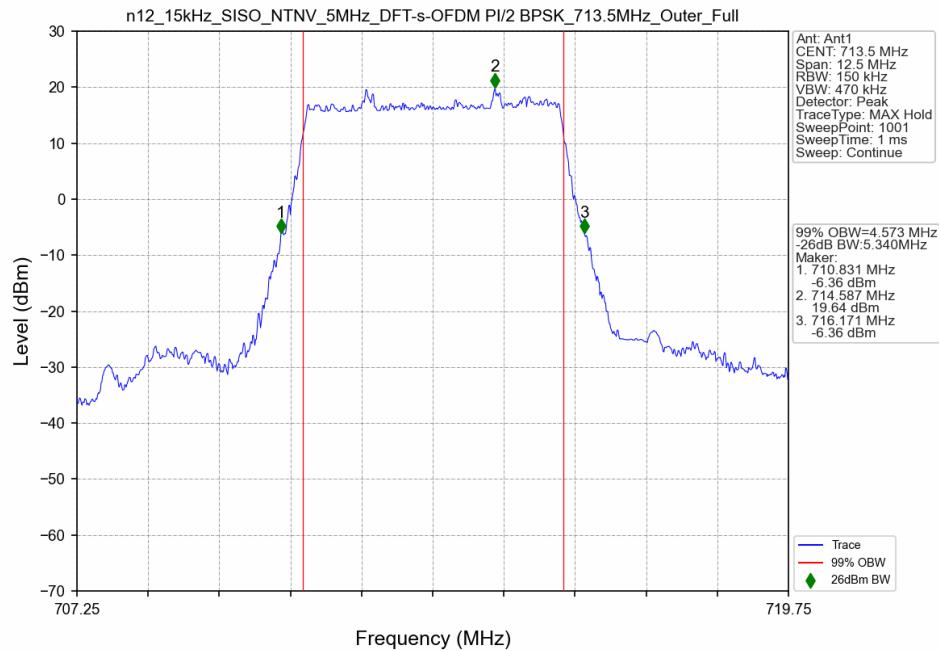
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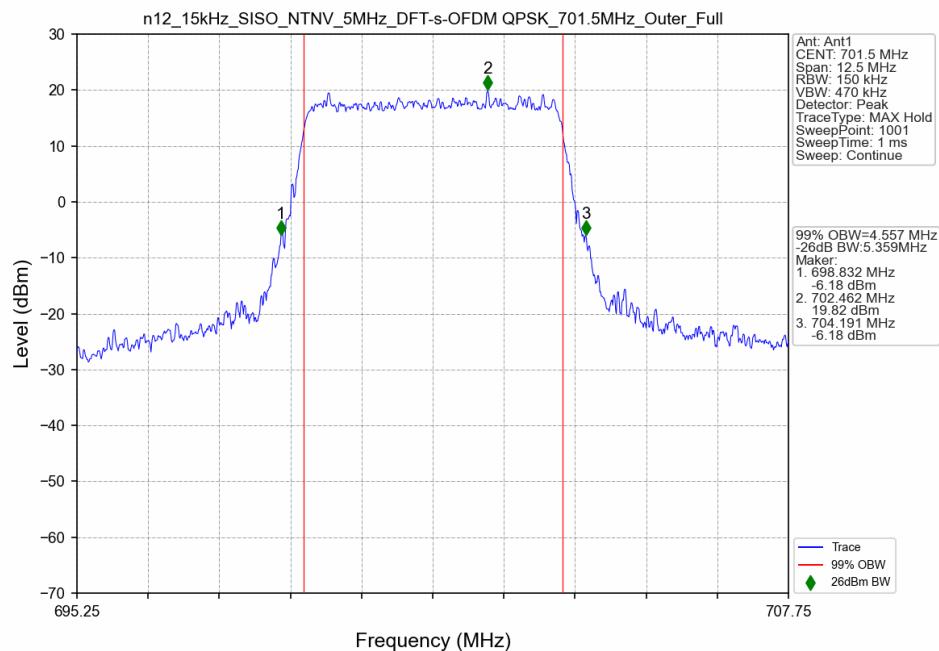
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM PI/2 BPSK\_713.5MHz\_Outer\_Full



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

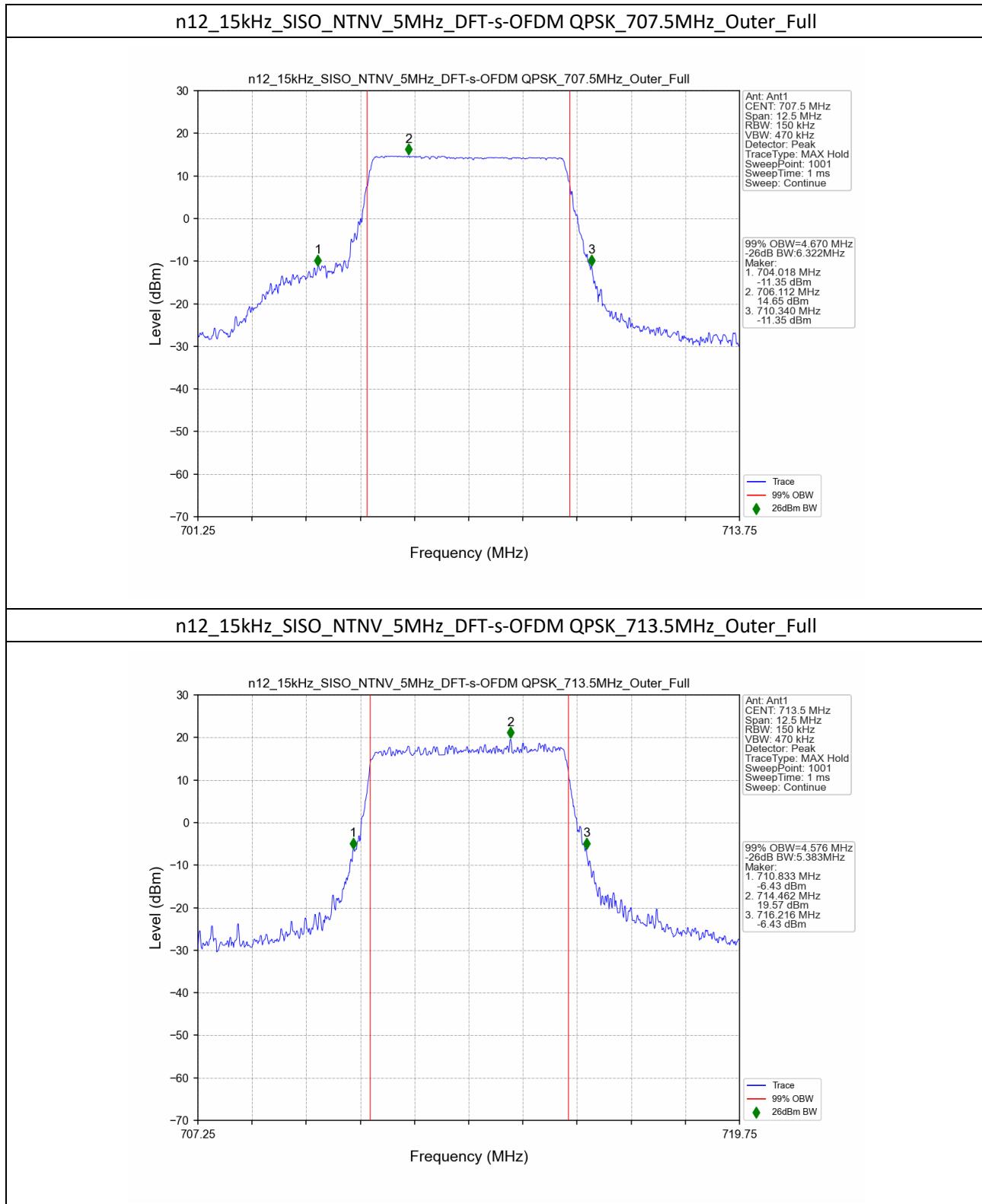


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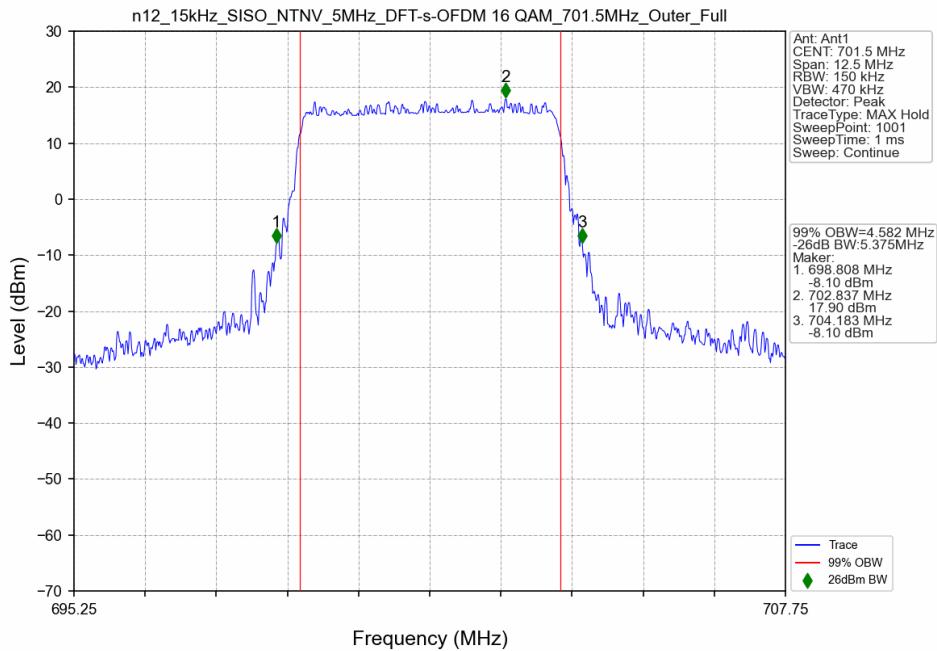
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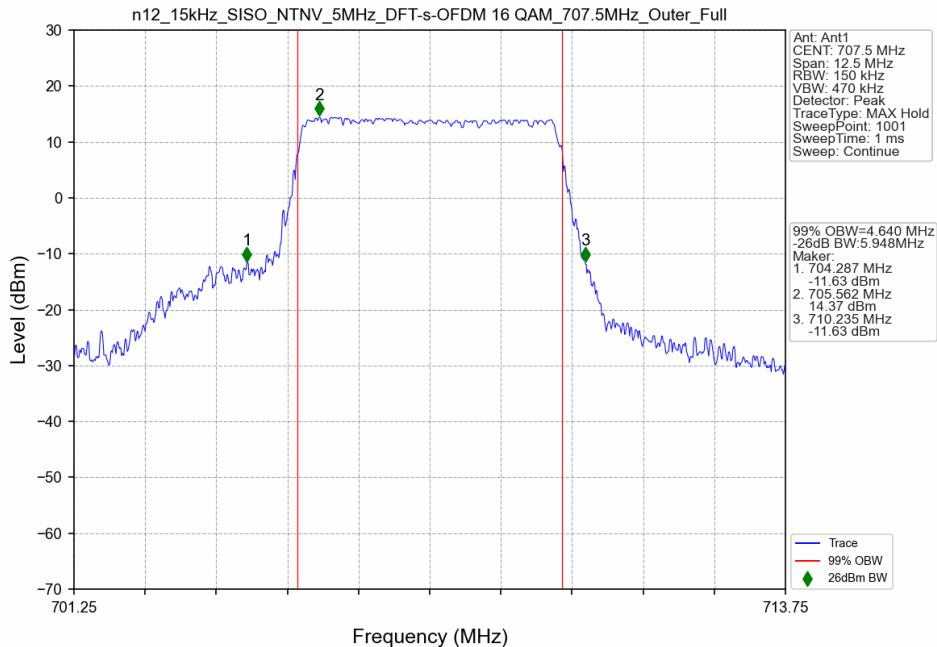
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_701.5MHz\_Outer\_Full



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



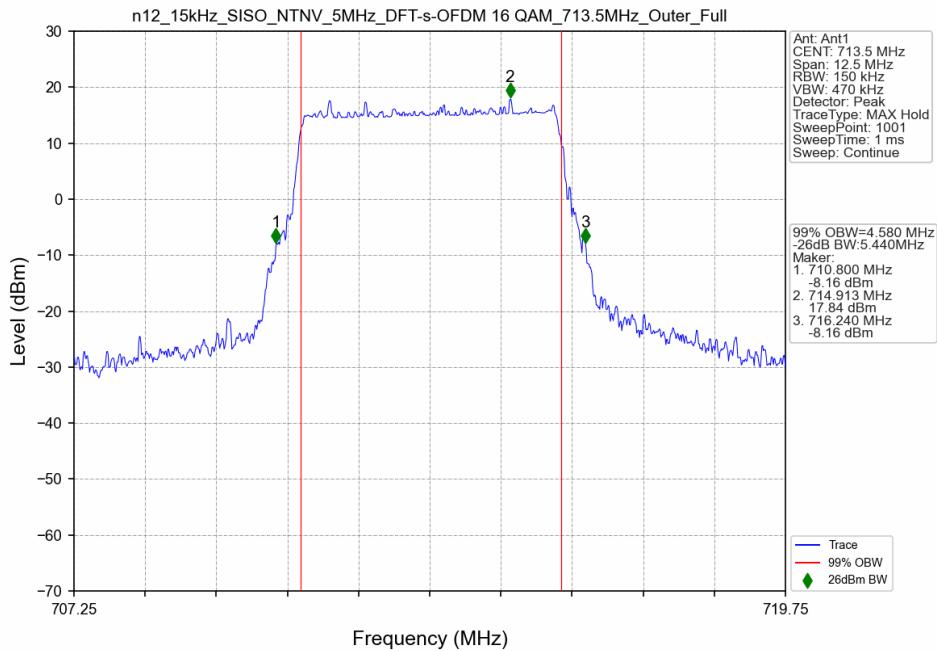
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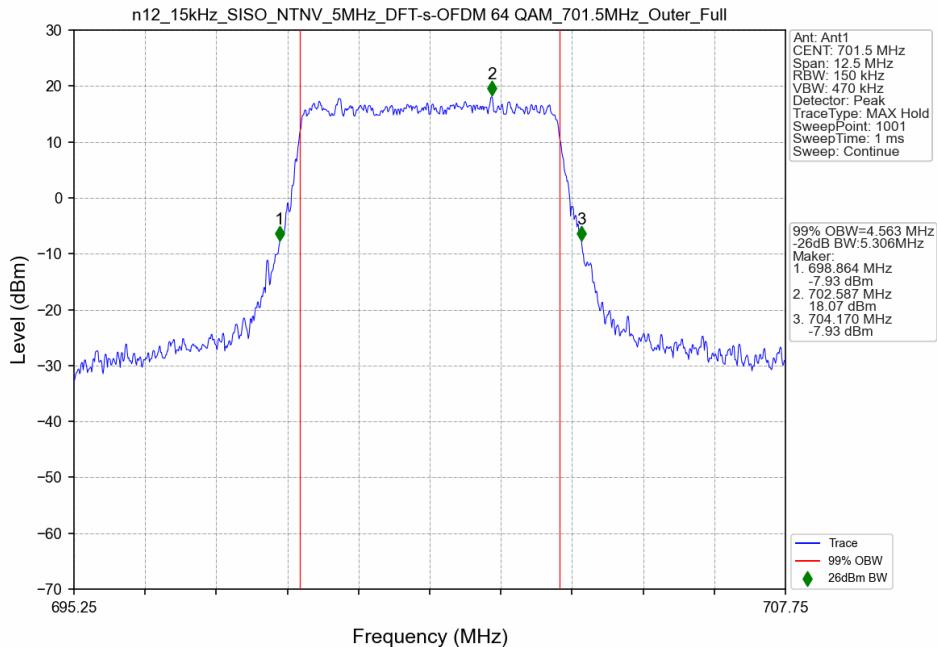
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 16 QAM\_713.5MHz\_Outer\_Full



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



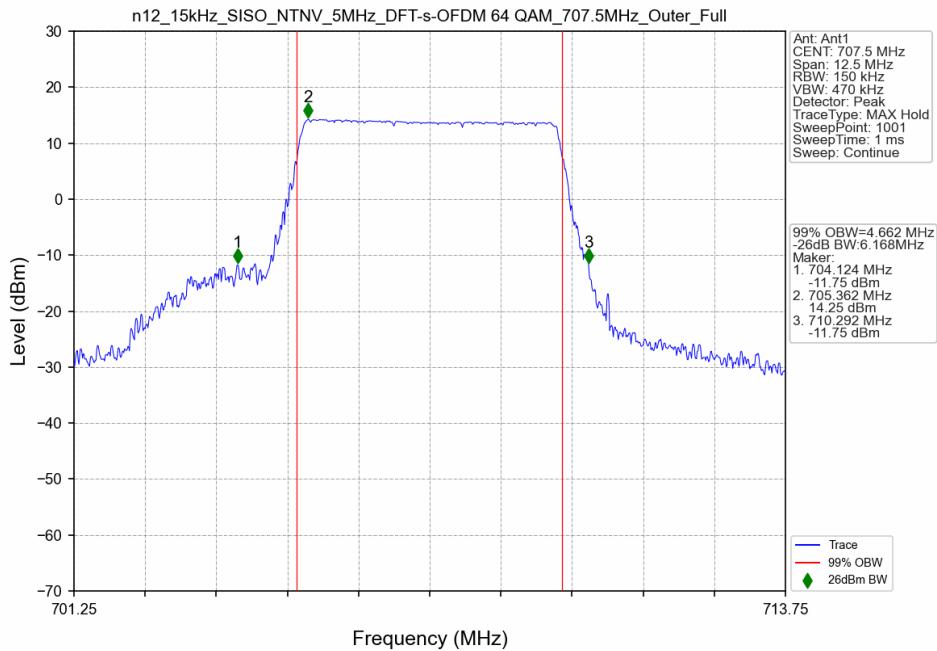
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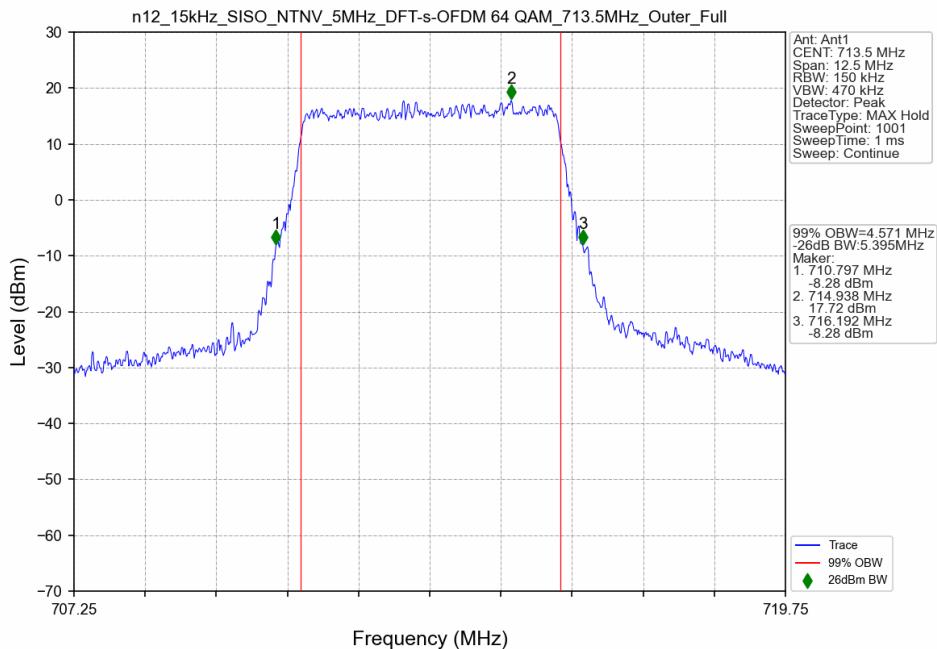
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 64 QAM\_707.5MHz\_Outer\_Full



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



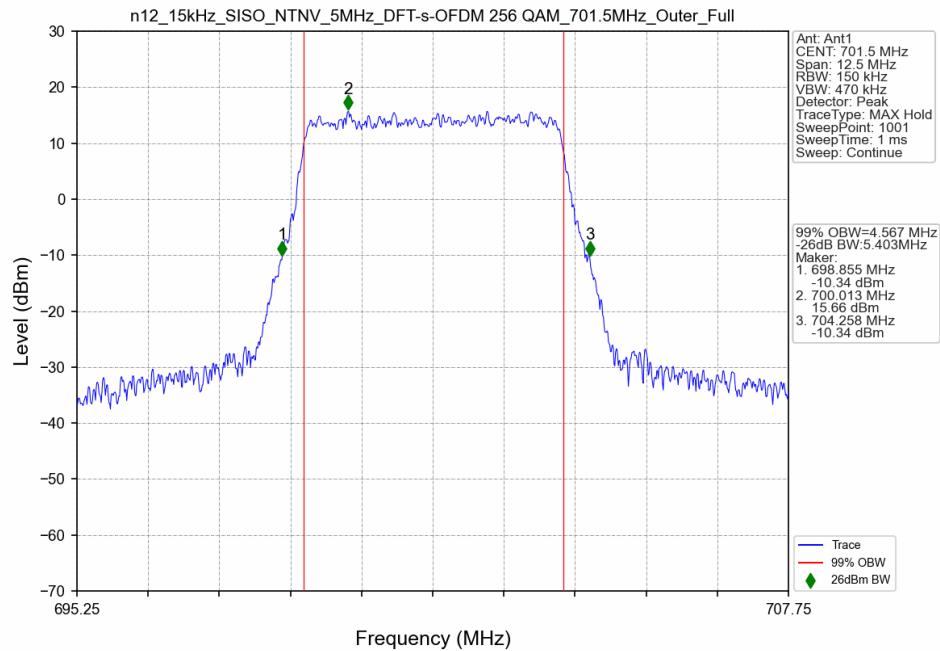
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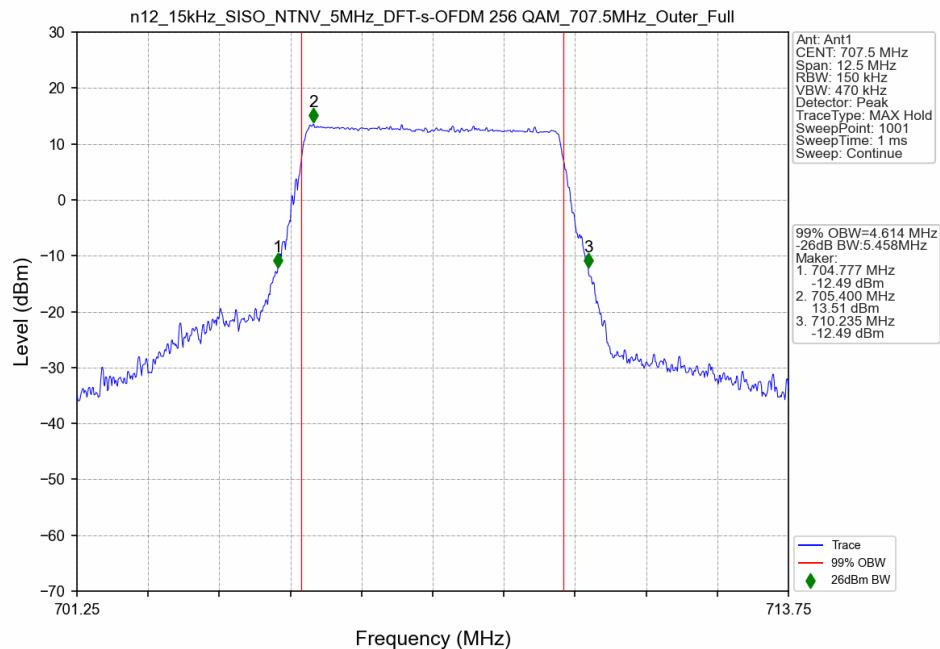
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_701.5MHz\_Outer\_Full



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



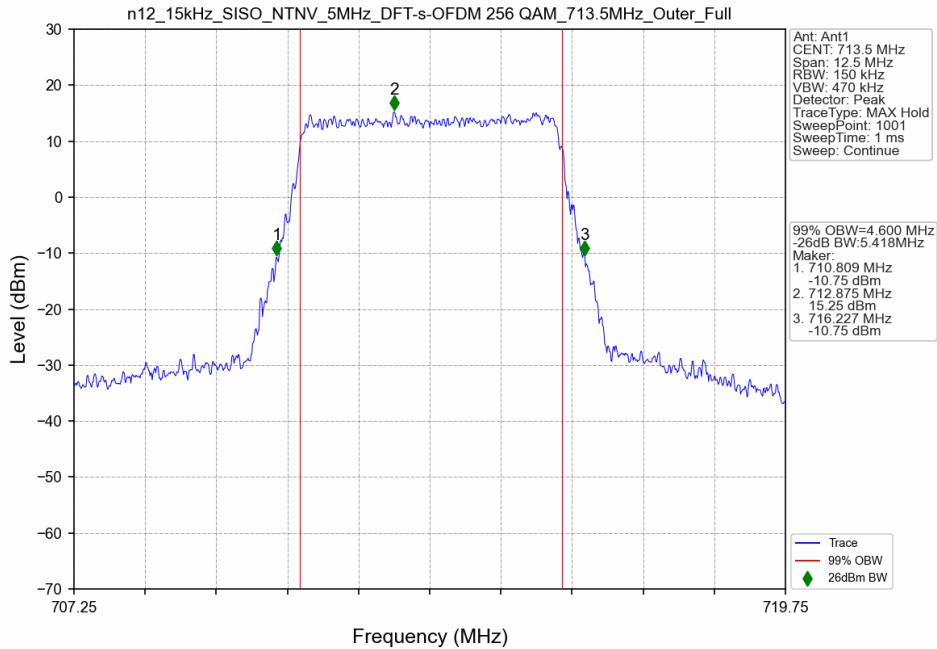
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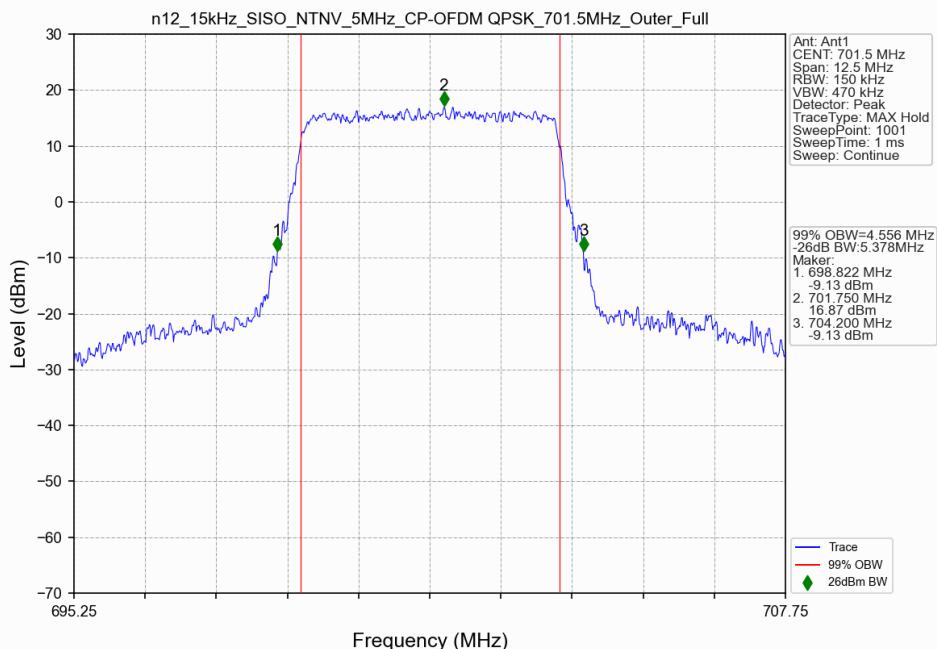
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_DFT-s-OFDM 256 QAM\_713.5MHz\_Outer\_Full



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



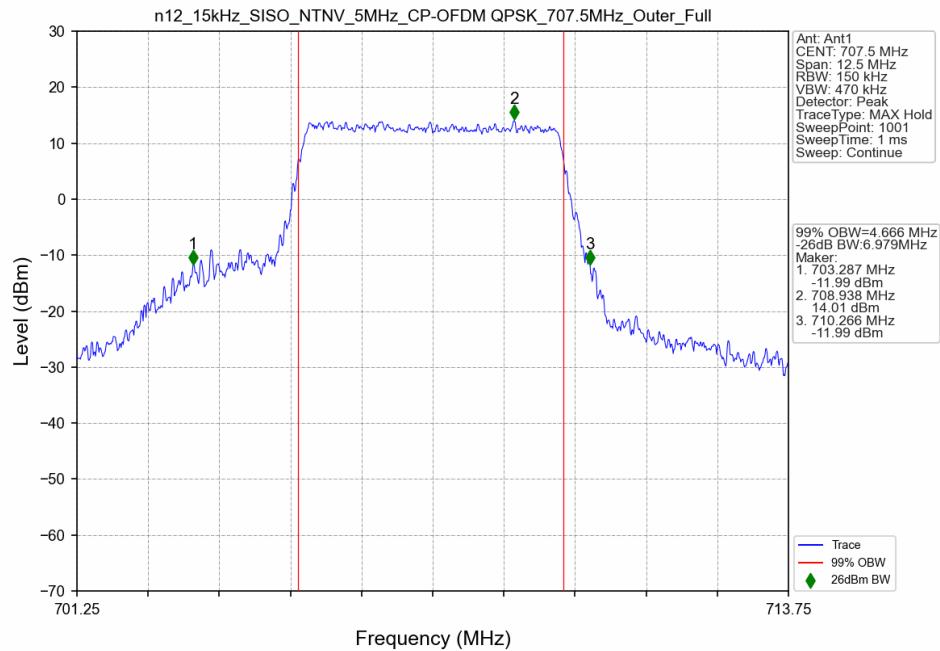
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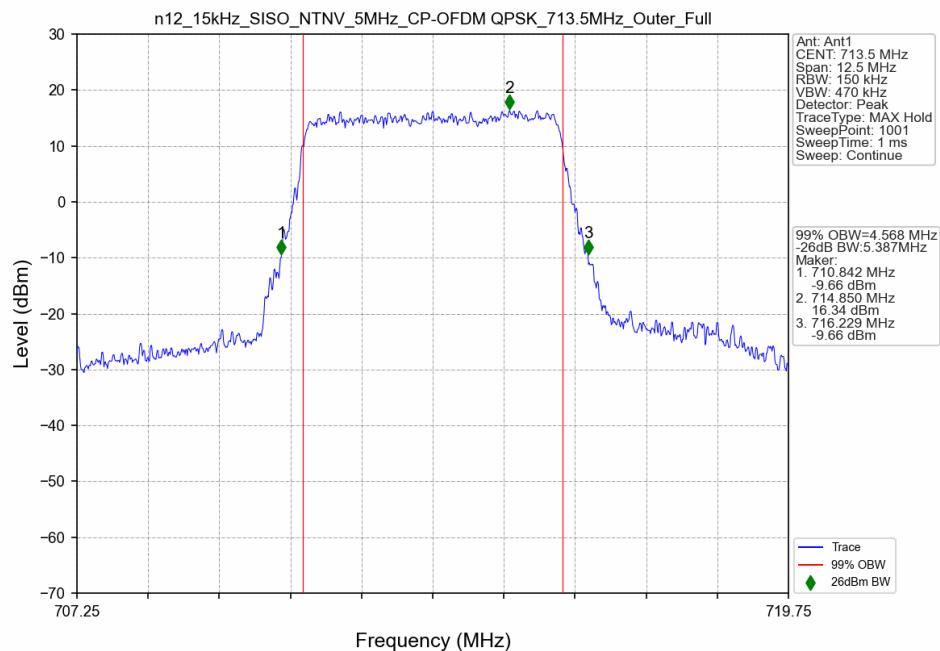
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM QPSK\_707.5MHz\_Outer\_Full



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



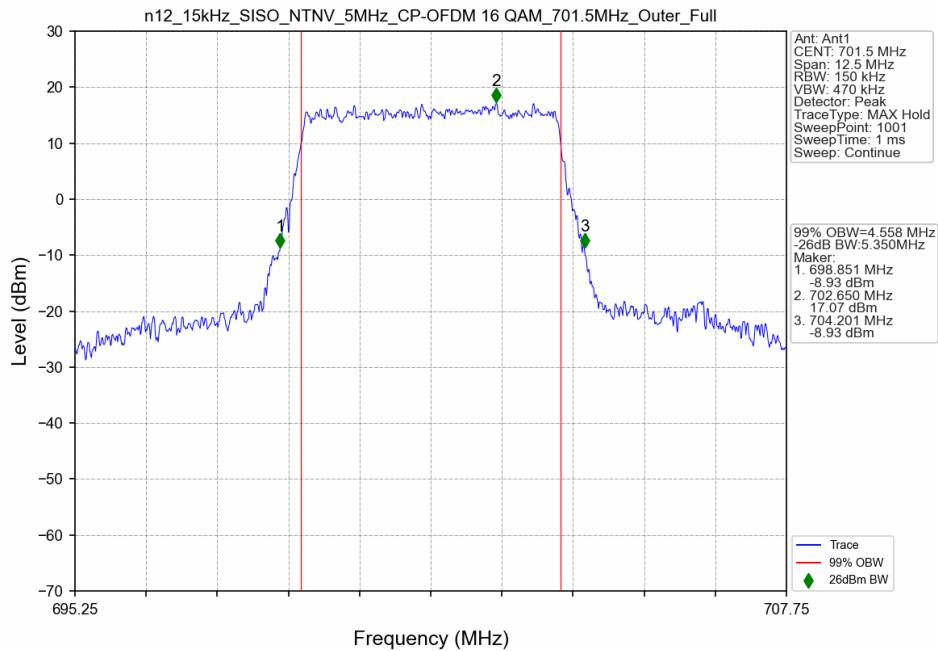
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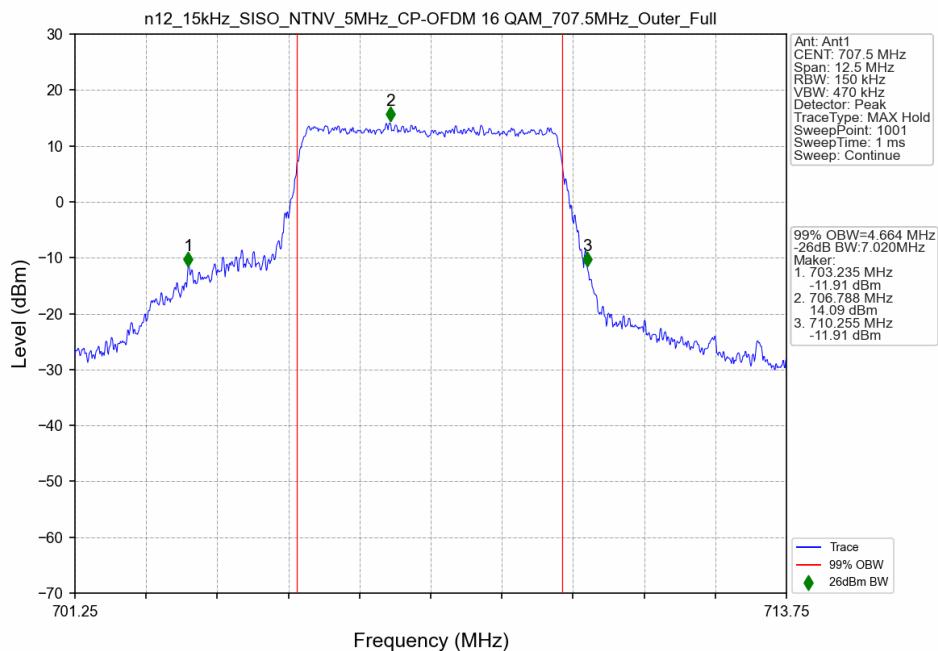
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_701.5MHz\_Outer\_Full



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



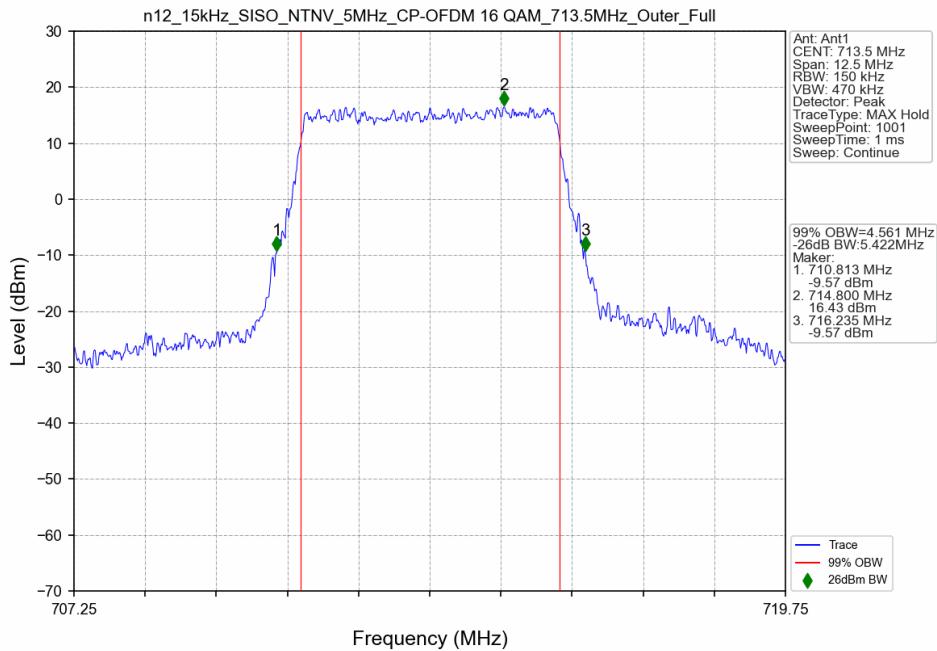
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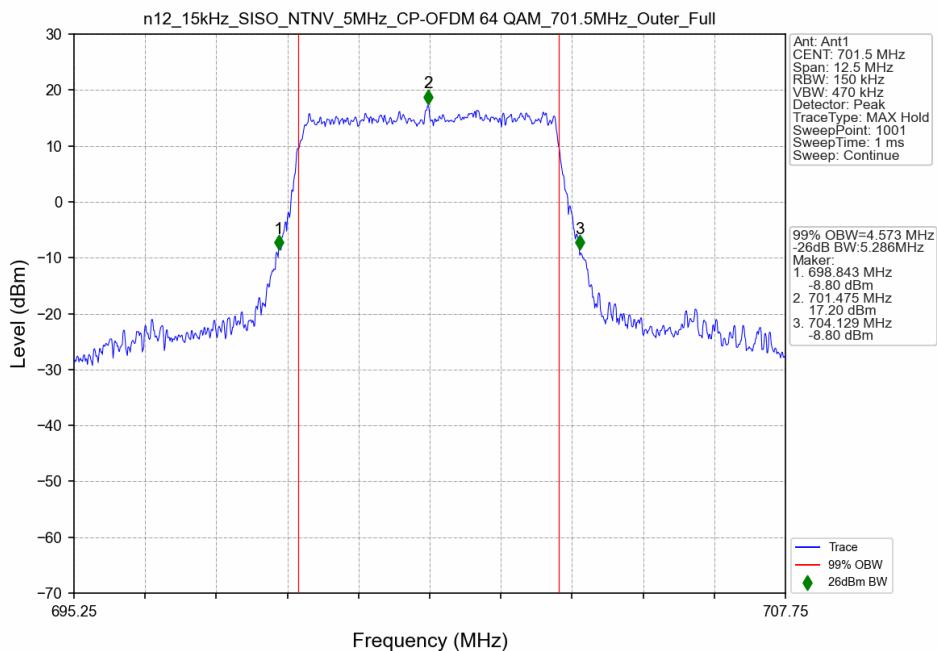
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 16 QAM\_713.5MHz\_Outer\_Full



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



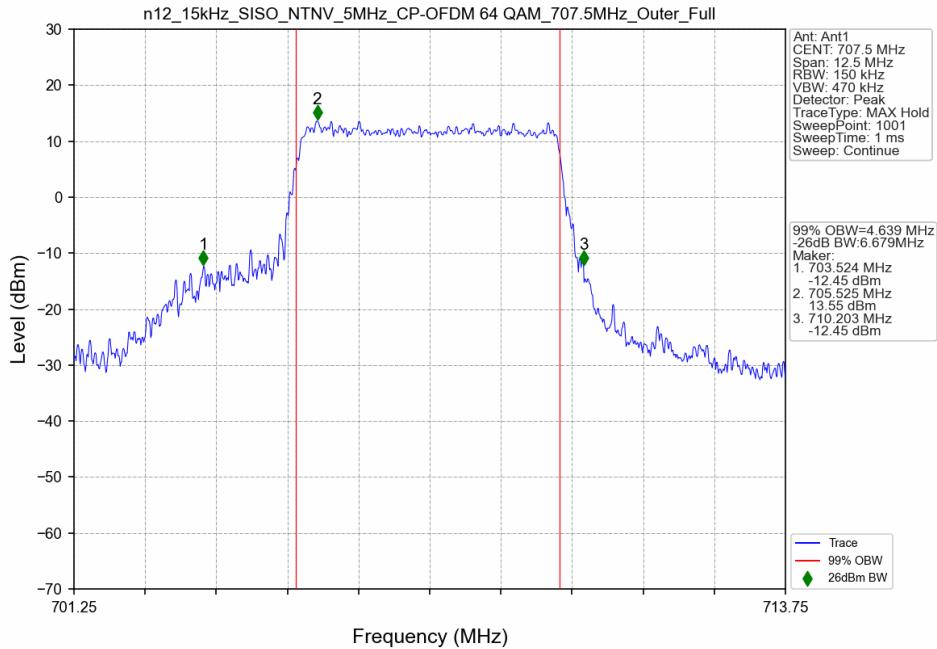
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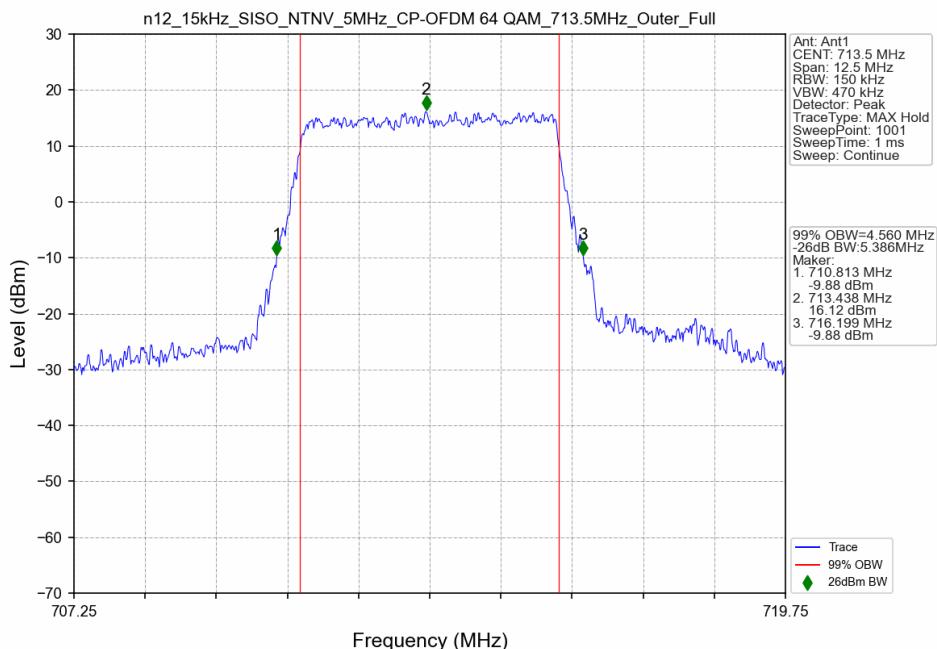
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 64 QAM\_707.5MHz\_Outer\_Full



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



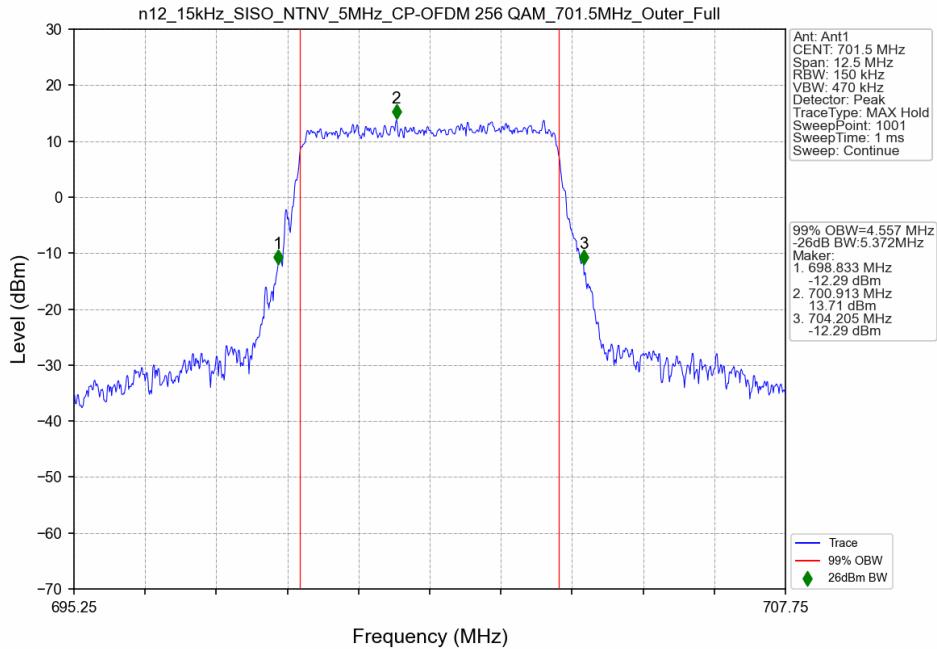
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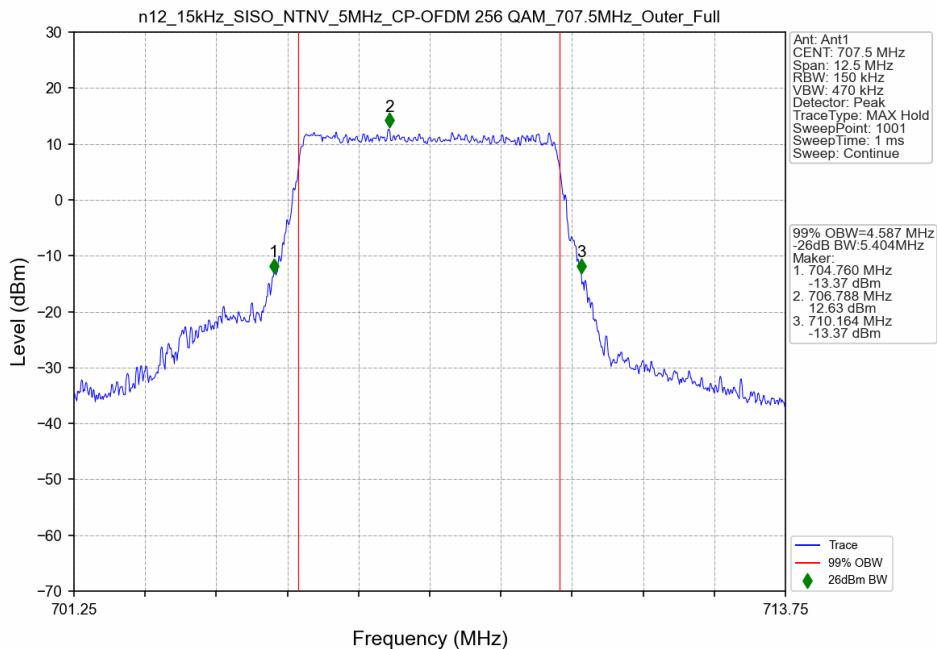
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## n12\_15kHz\_SISO\_NTNV\_5MHz\_CP-OFDM 256 QAM\_701.5MHz\_Outer\_Full



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

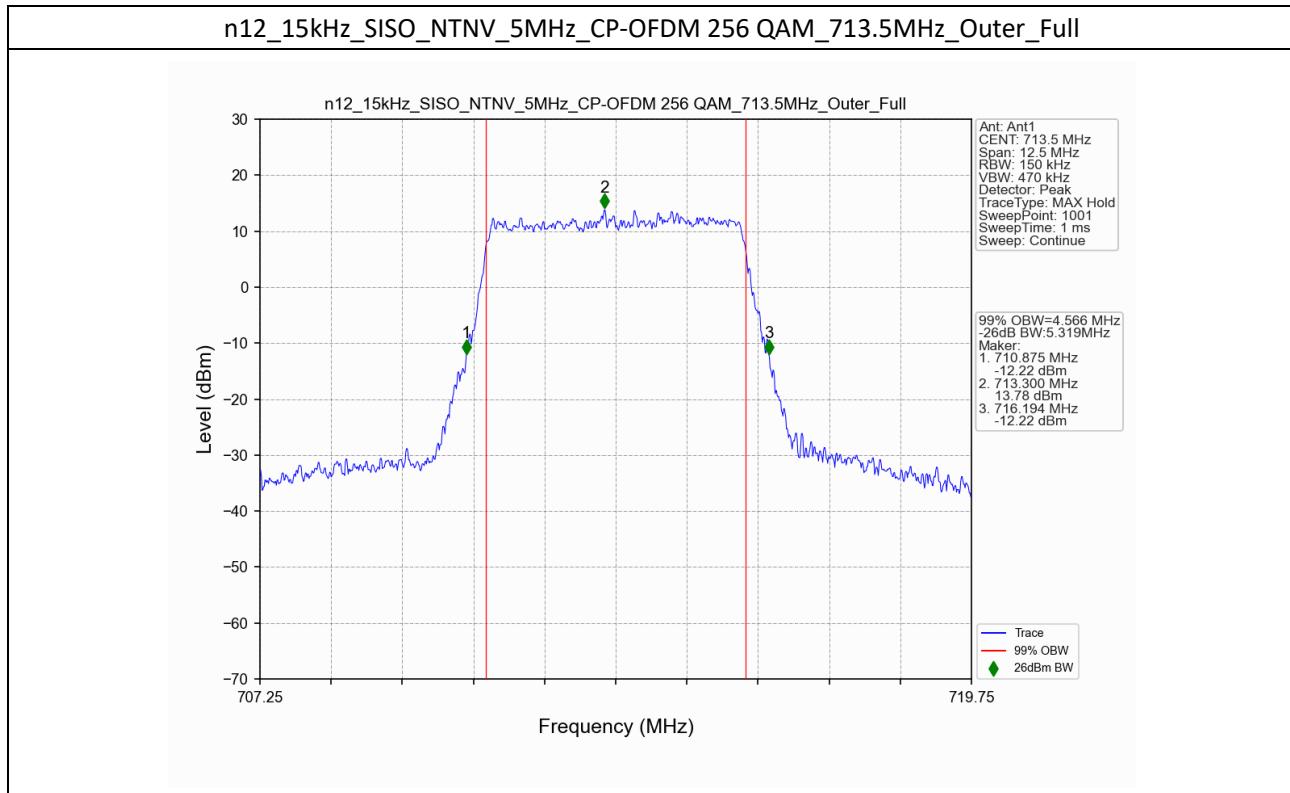


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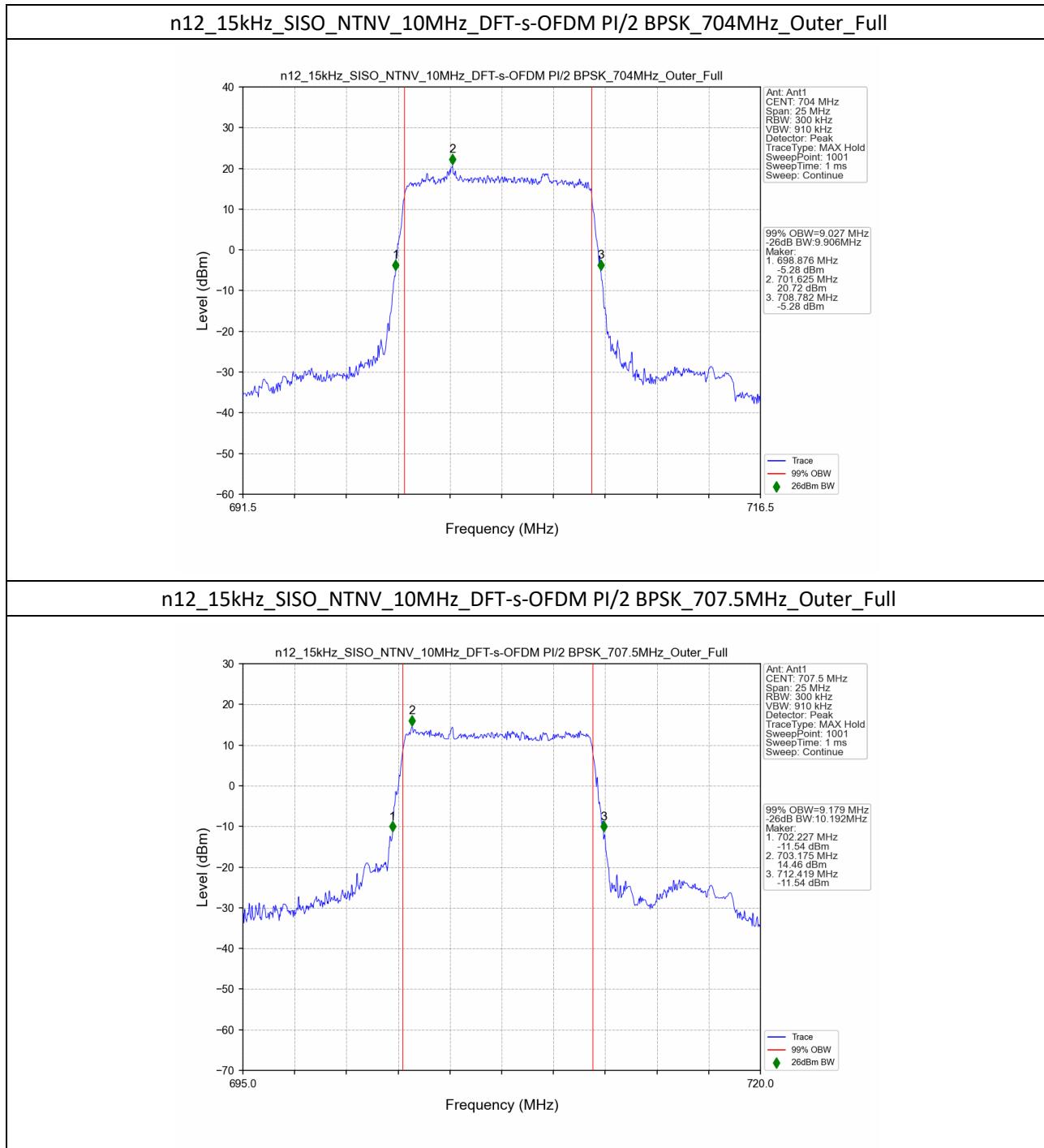
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## 3.2.2 15k\_SISO\_10MHz\_NTNV



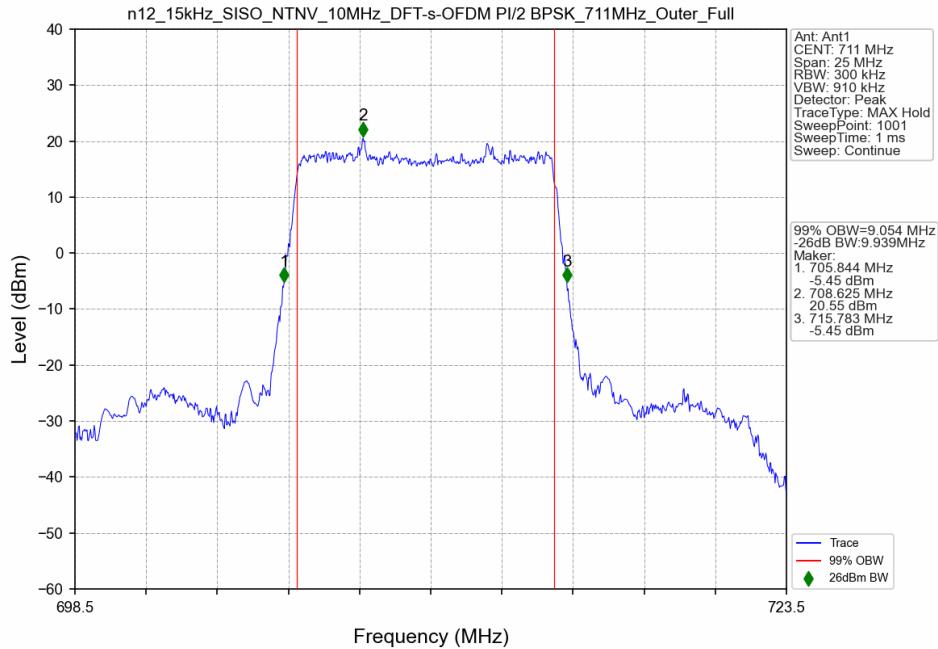
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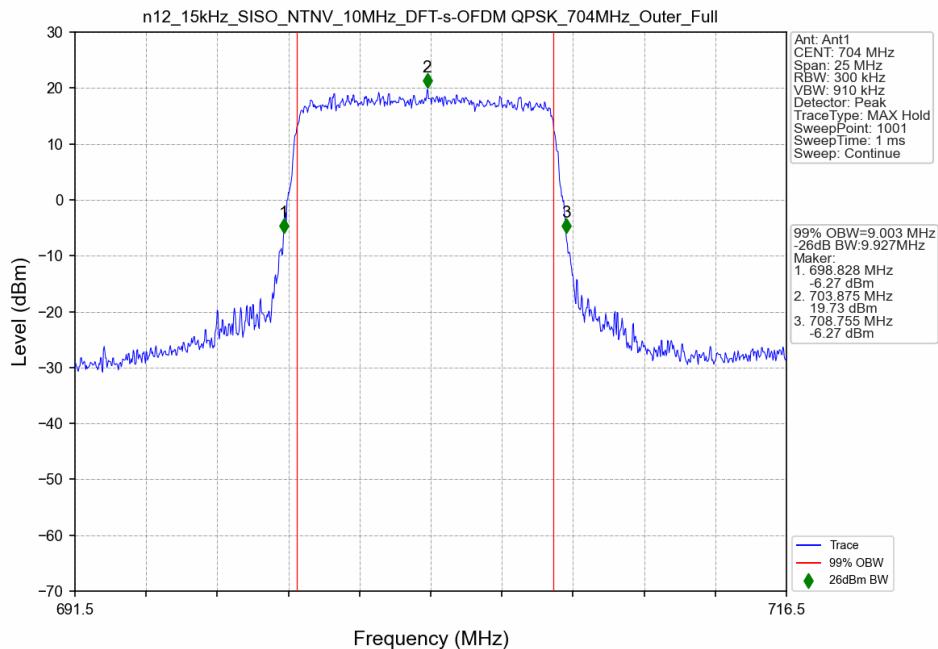
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM PI/2 BPSK\_711MHz\_Outer\_Full



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



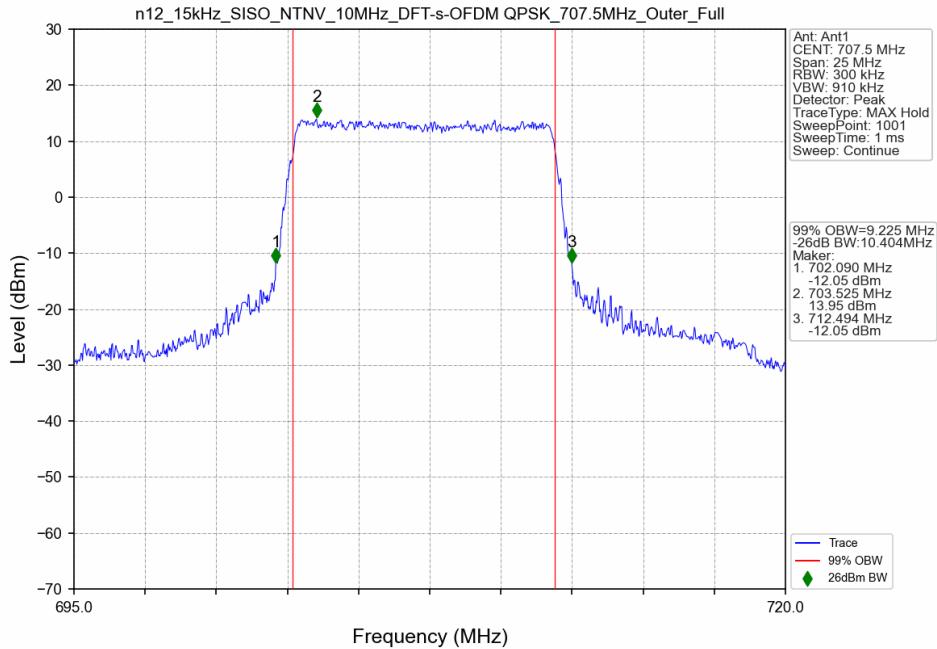
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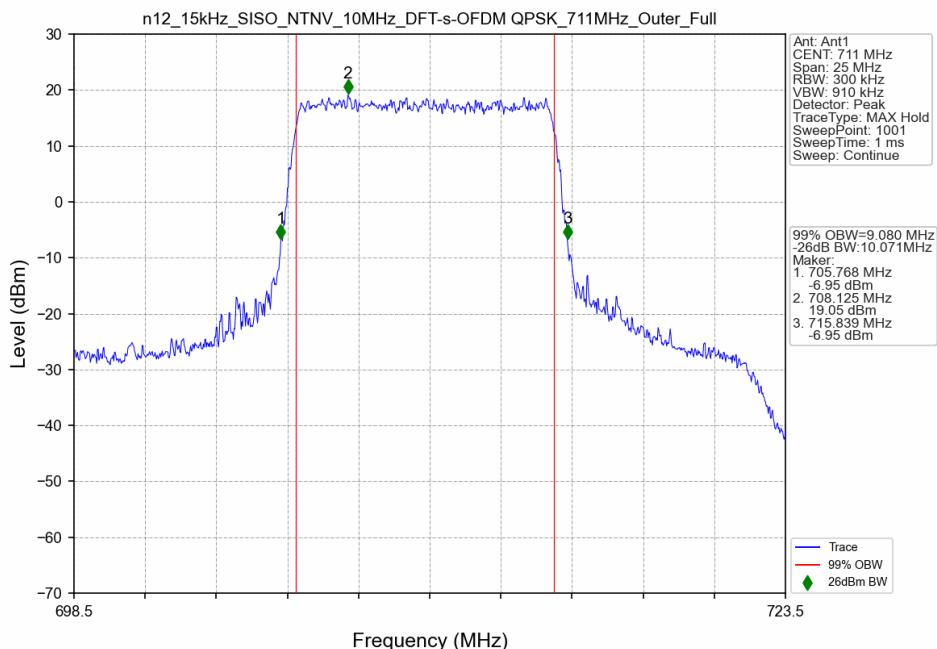
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_707.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM QPSK\_711MHz\_Outer\_Full



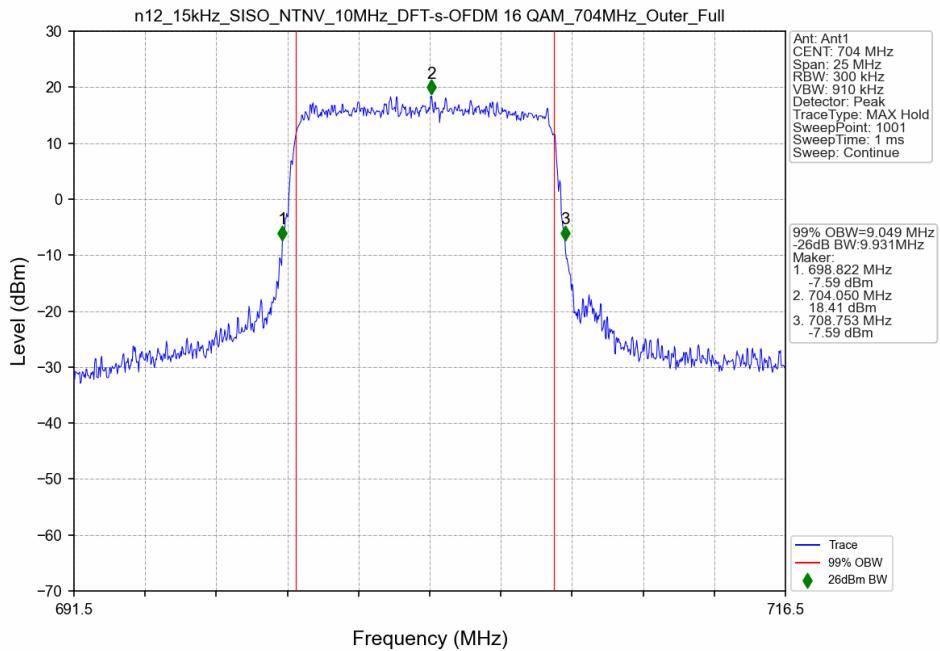
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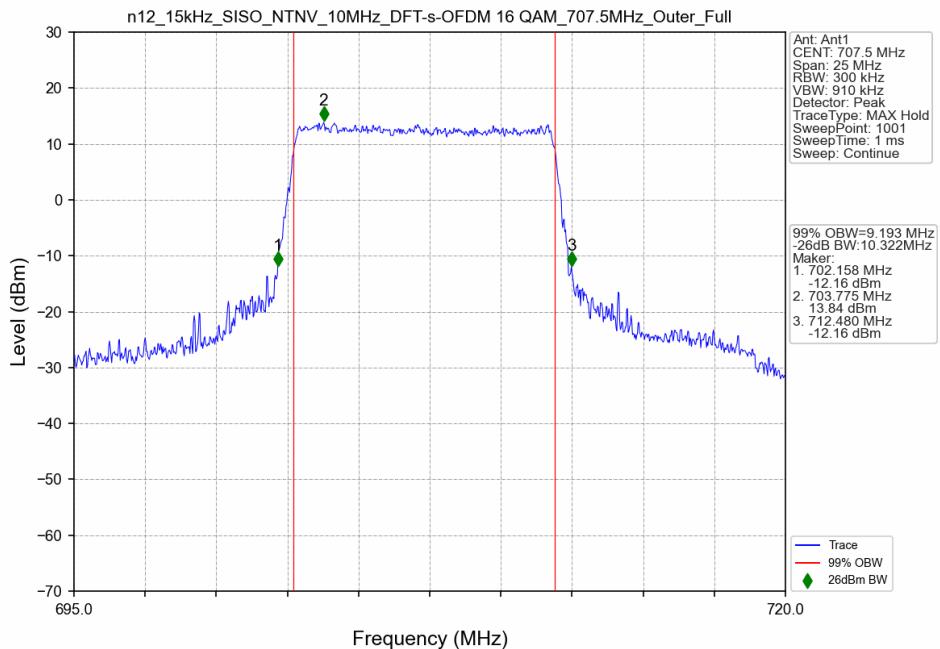
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_704MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_707.5MHz\_Outer\_Full



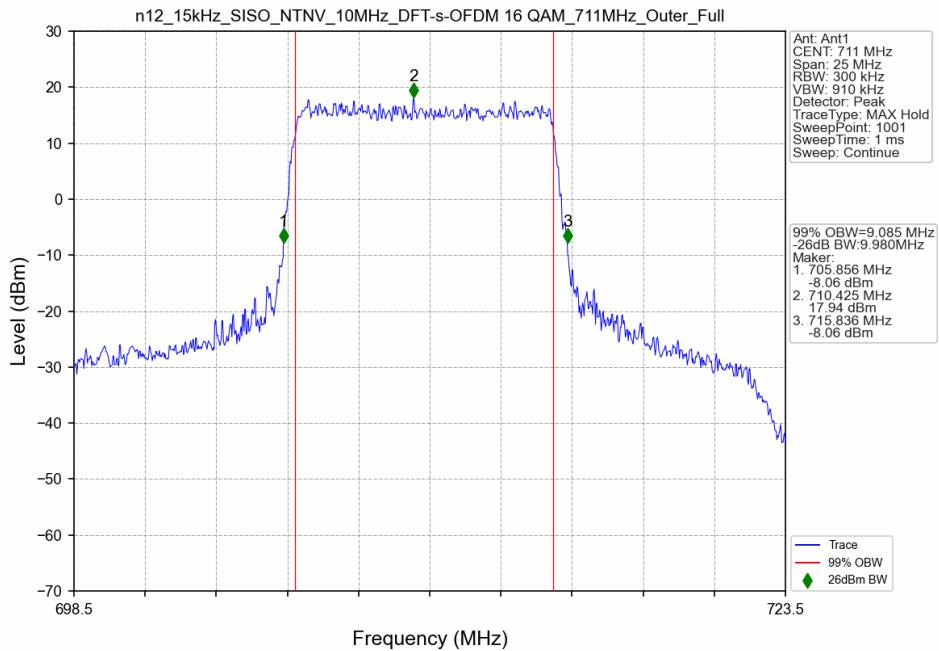
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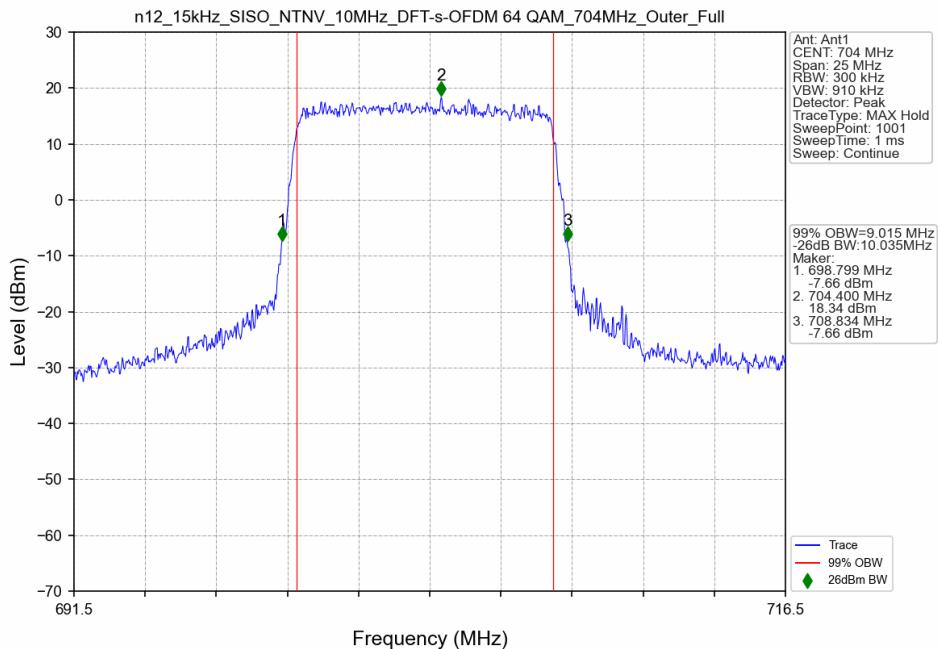
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 16 QAM\_711MHz\_Outer\_Full



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



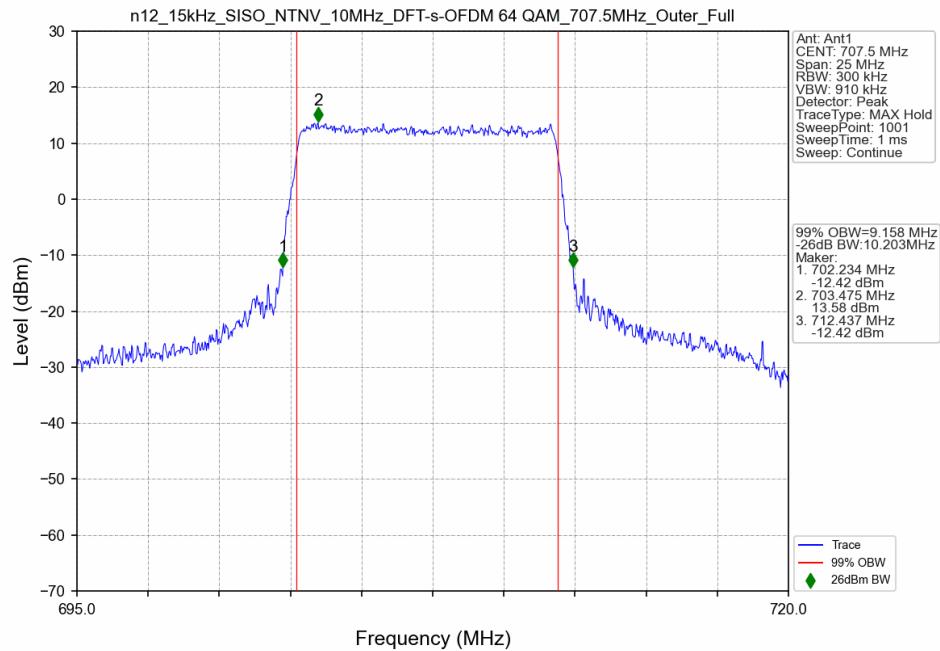
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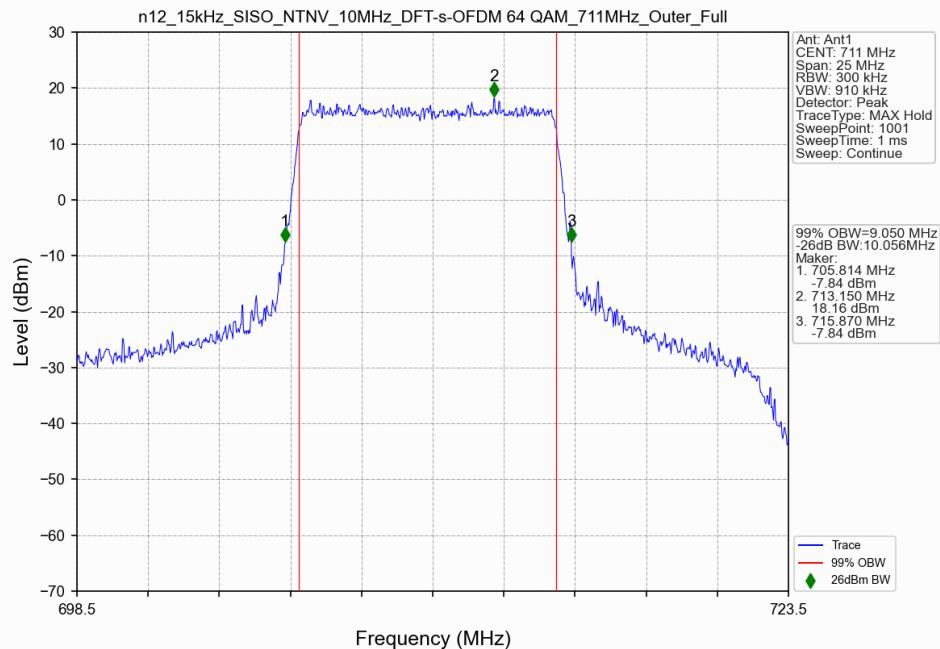
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## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_707.5MHz\_Outer\_Full



## n12\_15kHz\_SISO\_NTNV\_10MHz\_DFT-s-OFDM 64 QAM\_711MHz\_Outer\_Full



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