



Table with columns for Test Item, Frequency, Modulation, Bandwidth, Power, SNR, and Result. Rows include DFT-s-OFDM 256 QAM, CP-OFDM QPSK, CP-OFDM 16 QAM, CP-OFDM 64 QAM, and CP-OFDM 256 QAM.



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			-30	NV	2.40	0.0009	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-5.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			10	NV	1.50	0.0006	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-2.10	-0.0008	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-1.60	-0.0006	≥ -2.5 & ≤ 2.5	Pass
			50	NV	1.20	0.0005	≥ -2.5 & ≤ 2.5	Pass



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2.18 30k_SISO_90MHz

2.18.1 Test Result

5G NR n41 SCS=30kHz SISO 90MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	20	LV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
				HV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-4.10	-0.0016	>=-2.5 & <=2.5	Pass
			0	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			30	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			40	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-10.20	-0.0039	>=-2.5 & <=2.5	Pass
				HV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			-20	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass
			0	NV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			20	NV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			30	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass
			40	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-11.80	-0.0046	>=-2.5 & <=2.5	Pass
			-20	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-7.80	-0.0030	>=-2.5 & <=2.5	Pass
			10	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			20	NV	-7.60	-0.0029	>=-2.5 & <=2.5	Pass
			30	NV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-6.40	-0.0025	>=-2.5 & <=2.5	Pass
				HV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass
			-30	NV	-5.00	-0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			-10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			0	NV	-8.20	-0.0032	>=-2.5 & <=2.5	Pass
			10	NV	-6.80	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-11.00	-0.0042	>=-2.5 & <=2.5	Pass



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			30	NV	-7.50	-0.0029	>=-2.5 & <=2.5	Pass			
			40	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass			
			50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-13.10	-0.0051	>=-2.5 & <=2.5	Pass			
				HV	-8.30	-0.0032	>=-2.5 & <=2.5	Pass			
						-30	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
						-20	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
						-10	NV	-8.90	-0.0034	>=-2.5 & <=2.5	Pass
						0	NV	-10.70	-0.0041	>=-2.5 & <=2.5	Pass
						10	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
						20	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
						30	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
						40	NV	1.40	0.0005	>=-2.5 & <=2.5	Pass
						50	NV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
HV	-6.20	-0.0024					>=-2.5 & <=2.5	Pass			
						-30	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
						-20	NV	-3.50	-0.0013	>=-2.5 & <=2.5	Pass
						-10	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
						0	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
						10	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
						20	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
						30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
						40	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
						50	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full				20	LV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			HV	-2.80	-0.0011		>=-2.5 & <=2.5	Pass			
						-30	NV	1.10	0.0004	>=-2.5 & <=2.5	Pass
						-20	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
						-10	NV	3.50	0.0013	>=-2.5 & <=2.5	Pass
						0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
						10	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
						20	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
						30	NV	-1.40	-0.0005	>=-2.5 & <=2.5	Pass
						40	NV	-3.10	-0.0012	>=-2.5 & <=2.5	Pass
						50	NV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
			CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
HV	-4.80	-0.0019					>=-2.5 & <=2.5	Pass			
						-30	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
						-20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
						-10	NV	-7.70	-0.0030	>=-2.5 & <=2.5	Pass
						0	NV	-6.90	-0.0027	>=-2.5 & <=2.5	Pass
						10	NV	-5.20	-0.0020	>=-2.5 & <=2.5	Pass
						20	NV	-1.70	-0.0007	>=-2.5 & <=2.5	Pass
						30	NV	-8.60	-0.0033	>=-2.5 & <=2.5	Pass
						40	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
						50	NV	-7.40	-0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full				20	LV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			HV	-7.50	-0.0029		>=-2.5 & <=2.5	Pass			



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			-30	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-8.10	-0.0031	>=-2.5 & <=2.5	Pass
			-10	NV	-7.00	-0.0027	>=-2.5 & <=2.5	Pass
			0	NV	-5.40	-0.0021	>=-2.5 & <=2.5	Pass
			10	NV	-9.90	-0.0038	>=-2.5 & <=2.5	Pass
			20	NV	-8.00	-0.0031	>=-2.5 & <=2.5	Pass
			30	NV	-6.20	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	2.50	0.0010	>=-2.5 & <=2.5	Pass
			50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass



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2.19 30k_SISO_100MHz

2.19.1 Test Result

5G NR n41 SCS=30kHz SISO 100MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2592.99	Outer_Full	20	LV	-3.80	-0.0015	>=-2.5 & <=2.5	Pass
				HV	-6.70	-0.0026	>=-2.5 & <=2.5	Pass
			-30	NV	-5.10	-0.0020	>=-2.5 & <=2.5	Pass
			-20	NV	-2.60	-0.0010	>=-2.5 & <=2.5	Pass
			-10	NV	-10.10	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
			10	NV	-8.40	-0.0032	>=-2.5 & <=2.5	Pass
			20	NV	-9.70	-0.0037	>=-2.5 & <=2.5	Pass
			30	NV	-8.80	-0.0034	>=-2.5 & <=2.5	Pass
			40	NV	-7.30	-0.0028	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM QPSK	2592.99	Outer_Full	20	LV	-3.30	-0.0013	>=-2.5 & <=2.5	Pass
				HV	-1.20	-0.0005	>=-2.5 & <=2.5	Pass
			-30	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	-4.90	-0.0019	>=-2.5 & <=2.5	Pass
			-10	NV	-2.50	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-6.10	-0.0024	>=-2.5 & <=2.5	Pass
			10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			20	NV	-5.80	-0.0022	>=-2.5 & <=2.5	Pass
			30	NV	-4.40	-0.0017	>=-2.5 & <=2.5	Pass
			40	NV	-4.50	-0.0017	>=-2.5 & <=2.5	Pass
50	NV	-4.70	-0.0018	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 16 QAM	2592.99	Outer_Full	20	LV	-5.30	-0.0020	>=-2.5 & <=2.5	Pass
				HV	-6.60	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	4.80	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	-5.70	-0.0022	>=-2.5 & <=2.5	Pass
			-10	NV	-2.90	-0.0011	>=-2.5 & <=2.5	Pass
			0	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			10	NV	-5.90	-0.0023	>=-2.5 & <=2.5	Pass
			20	NV	-4.60	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-2.70	-0.0010	>=-2.5 & <=2.5	Pass
			40	NV	-6.00	-0.0023	>=-2.5 & <=2.5	Pass
50	NV	-3.60	-0.0014	>=-2.5 & <=2.5	Pass			
DFT-s-OFDM 64 QAM	2592.99	Outer_Full	20	LV	-7.20	-0.0028	>=-2.5 & <=2.5	Pass
				HV	-2.80	-0.0011	>=-2.5 & <=2.5	Pass
			-30	NV	-5.60	-0.0022	>=-2.5 & <=2.5	Pass
			-20	NV	-8.70	-0.0034	>=-2.5 & <=2.5	Pass
			-10	NV	-1.80	-0.0007	>=-2.5 & <=2.5	Pass
			0	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass
			10	NV	-2.20	-0.0008	>=-2.5 & <=2.5	Pass
			20	NV	-4.00	-0.0015	>=-2.5 & <=2.5	Pass



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			30	NV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass			
			40	NV	-3.80	-0.0015	≥ -2.5 & ≤ 2.5	Pass			
			50	NV	-7.30	-0.0028	≥ -2.5 & ≤ 2.5	Pass			
DFT-s-OFDM 256 QAM	2592.99	Outer_Full	20	LV	-6.50	-0.0025	≥ -2.5 & ≤ 2.5	Pass			
				HV	-2.40	-0.0009	≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-6.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-5.90	-0.0023	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-5.40	-0.0021	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-6.90	-0.0027	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-1.50	-0.0006	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-5.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-2.00	-0.0008	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-3.50	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-8.70	-0.0034	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM QPSK	2592.99	Outer_Full	20	LV	-5.10	-0.0020	≥ -2.5 & ≤ 2.5	Pass
HV	-7.20	-0.0028					≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-6.00	-0.0023	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-1.90	-0.0007	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-6.60	-0.0025	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-3.70	-0.0014	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-3.30	-0.0013	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-7.60	-0.0029	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-5.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 16 QAM	2592.99	Outer_Full				20	LV	-3.10	-0.0012	≥ -2.5 & ≤ 2.5	Pass
			HV	-2.20	-0.0008		≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	0.80	0.0003	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-2.80	-0.0011	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-2.30	-0.0009	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-4.20	-0.0016	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-3.00	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-1.10	-0.0004	≥ -2.5 & ≤ 2.5	Pass
						40	NV	1.40	0.0005	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-7.20	-0.0028	≥ -2.5 & ≤ 2.5	Pass
			CP-OFDM 64 QAM	2592.99	Outer_Full	20	LV	1.20	0.0005	≥ -2.5 & ≤ 2.5	Pass
HV	-1.70	-0.0007					≥ -2.5 & ≤ 2.5	Pass			
						-30	NV	-3.20	-0.0012	≥ -2.5 & ≤ 2.5	Pass
						-20	NV	-1.40	-0.0005	≥ -2.5 & ≤ 2.5	Pass
						-10	NV	-0.80	-0.0003	≥ -2.5 & ≤ 2.5	Pass
						0	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						10	NV	-0.60	-0.0002	≥ -2.5 & ≤ 2.5	Pass
						20	NV	-2.50	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						30	NV	-4.30	-0.0017	≥ -2.5 & ≤ 2.5	Pass
						40	NV	-2.60	-0.0010	≥ -2.5 & ≤ 2.5	Pass
						50	NV	-3.40	-0.0013	≥ -2.5 & ≤ 2.5	Pass
CP-OFDM 256 QAM	2592.99	Outer_Full				20	LV	-6.20	-0.0024	≥ -2.5 & ≤ 2.5	Pass
			HV	-5.50	-0.0021		≥ -2.5 & ≤ 2.5	Pass			



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			-30	NV	-5.00	-0.0019	≥ -2.5 & ≤ 2.5	Pass
			-20	NV	-3.90	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			-10	NV	-7.40	-0.0029	≥ -2.5 & ≤ 2.5	Pass
			0	NV	-5.30	-0.0020	≥ -2.5 & ≤ 2.5	Pass
			10	NV	-3.70	-0.0014	≥ -2.5 & ≤ 2.5	Pass
			20	NV	-9.70	-0.0037	≥ -2.5 & ≤ 2.5	Pass
			30	NV	-8.60	-0.0033	≥ -2.5 & ≤ 2.5	Pass
			40	NV	-3.90	-0.0015	≥ -2.5 & ≤ 2.5	Pass
			50	NV	-8.70	-0.0034	≥ -2.5 & ≤ 2.5	Pass



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3. Field Strength of Spurious Radiation

Test Band = SA Band 41_ TM1
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	45.07	-48.01	31.51	-66.69	-25.00	41.69	Horizontal
2	7503.3	45.05	-46.11	36.80	-59.53	-25.00	34.53	Horizontal
3	10004.4	40.76	-41.71	38.50	-57.70	-25.00	32.70	Horizontal
4	12505.5	39.36	-39.84	38.90	-56.84	-25.00	31.84	Horizontal
5	15006.6	37.48	-38.03	40.09	-55.73	-25.00	30.73	Horizontal
6	17507.7	37.11	-36.82	42.15	-52.82	-25.00	27.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	45.21	-48.01	31.51	-66.55	-25.00	41.55	Vertical
2	7503.3	44.33	-46.11	36.80	-60.25	-25.00	35.25	Vertical
3	10004.4	40.99	-41.71	38.50	-57.47	-25.00	32.47	Vertical
4	12505.5	39.76	-39.84	38.90	-56.44	-25.00	31.44	Vertical
5	15006.6	37.71	-38.03	40.09	-55.50	-25.00	30.50	Vertical
6	17507.7	37.62	-36.82	42.15	-52.31	-25.00	27.31	Vertical



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Test Band = SA Band 41_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.16	45.62	-47.83	31.73	-65.74	-25.00	40.74	Horizontal
2	7644.24	43.92	-44.85	36.63	-59.57	-25.00	34.57	Horizontal
3	10192.32	40.19	-42.12	38.67	-58.52	-25.00	33.52	Horizontal
4	12740.4	39.77	-39.28	38.76	-56.02	-25.00	31.02	Horizontal
5	15288.48	36.33	-37.77	39.55	-57.15	-25.00	32.15	Horizontal
6	17836.56	37.87	-37.06	44.26	-50.19	-25.00	25.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.16	45.15	-47.83	31.73	-66.21	-25.00	41.21	Vertical
2	7644.24	43.76	-44.85	36.63	-59.73	-25.00	34.73	Vertical
3	10192.32	40.25	-42.12	38.67	-58.46	-25.00	33.46	Vertical
4	12740.4	39.29	-39.28	38.76	-56.50	-25.00	31.50	Vertical
5	15288.48	37.09	-37.77	39.55	-56.39	-25.00	31.39	Vertical
6	17836.56	37.29	-37.06	44.26	-50.77	-25.00	25.77	Vertical



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Test Band = SA Band 41_ TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17921	38.44	-36.47	44.79	-48.50	-25.00	23.50	Horizontal
2	5190.18	45.24	-47.88	31.96	-65.95	-25.00	40.95	Horizontal
3	7785.27	45.50	-44.95	36.46	-58.26	-25.00	33.26	Horizontal
4	10380.36	40.04	-41.22	38.84	-57.60	-25.00	32.60	Horizontal
5	12975.45	38.66	-39.40	38.61	-57.39	-25.00	32.39	Horizontal
6	15570.54	36.48	-37.75	39.02	-57.52	-25.00	32.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	17907	38.24	-36.45	44.70	-48.77	-25.00	23.77	Vertical
2	5190.18	45.39	-47.88	31.96	-65.80	-25.00	40.80	Vertical
3	7785.27	44.98	-44.95	36.46	-58.78	-25.00	33.78	Vertical
4	10380.36	40.54	-41.22	38.84	-57.10	-25.00	32.10	Vertical
5	12975.45	39.82	-39.40	38.61	-56.23	-25.00	31.23	Vertical
6	15570.54	36.86	-37.75	39.02	-57.14	-25.00	32.14	Vertical



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Test Band = NSA 4A_N41A_TM1
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3932	47.70	-48.25	29.30	-66.51	-25.00	41.51	Horizontal
2	5384.5	47.68	-47.73	32.42	-62.89	-25.00	37.89	Horizontal
3	7315.5	46.27	-46.16	36.36	-58.79	-25.00	33.79	Horizontal
4	9411.5	45.23	-42.97	37.97	-55.03	-25.00	30.03	Horizontal
5	11979	41.04	-39.54	39.20	-54.56	-25.00	29.56	Horizontal
6	14823.5	38.95	-36.97	40.24	-53.04	-25.00	28.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3902.5	47.53	-48.29	29.26	-66.75	-25.00	41.75	Vertical
2	5441	47.89	-47.67	32.56	-62.49	-25.00	37.49	Vertical
3	7569.5	45.82	-45.06	36.72	-57.78	-25.00	32.78	Vertical
4	10761	41.90	-40.83	39.18	-55.01	-25.00	30.01	Vertical
5	14830	39.22	-37.01	40.24	-52.81	-25.00	27.81	Vertical
6	17631	38.52	-37.13	42.94	-50.94	-25.00	25.94	Vertical



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Test Band = NSA 4A_N41A_TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3897.5	47.57	-48.29	29.26	-66.72	-25.00	41.72	Horizontal
2	5376.5	48.09	-47.73	32.40	-62.50	-25.00	37.50	Horizontal
3	7015	46.63	-46.48	35.64	-59.48	-25.00	34.48	Horizontal
4	9390	45.03	-43.03	37.95	-55.31	-25.00	30.31	Horizontal
5	11979.5	41.76	-39.54	39.20	-53.83	-25.00	28.83	Horizontal
6	17978.5	38.00	-36.57	45.16	-48.66	-25.00	23.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3912.5	47.81	-48.28	29.28	-66.45	-25.00	41.45	Vertical
2	5396	47.92	-47.72	32.45	-62.61	-25.00	37.61	Vertical
3	7585.5	45.27	-44.80	36.70	-58.09	-25.00	33.09	Vertical
4	10054	42.99	-41.79	38.55	-55.51	-25.00	30.51	Vertical
5	14772.5	38.67	-36.80	40.28	-53.11	-25.00	28.11	Vertical
6	17985	38.17	-36.58	45.20	-48.46	-25.00	23.46	Vertical



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Test Band = NSA 4A_N41A_TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3927.5	47.66	-48.26	29.30	-66.56	-25.00	41.56	Horizontal
2	5404.5	47.73	-47.72	32.47	-62.77	-25.00	37.77	Horizontal
3	7604.5	46.03	-44.60	36.67	-57.15	-25.00	32.15	Horizontal
4	9425.5	44.67	-42.88	37.98	-55.48	-25.00	30.48	Horizontal
5	13414	42.83	-39.17	39.55	-52.05	-25.00	27.05	Horizontal
6	17841	38.57	-37.02	44.28	-49.43	-25.00	24.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3901	47.71	-48.29	29.26	-66.58	-25.00	41.58	Vertical
2	5337	47.91	-47.76	32.31	-62.80	-25.00	37.80	Vertical
3	7776	45.91	-44.98	36.47	-57.86	-25.00	32.86	Vertical
4	9371	44.65	-43.00	37.93	-55.68	-25.00	30.68	Vertical
5	11974	40.96	-39.57	39.21	-54.66	-25.00	29.66	Vertical
6	14829	38.87	-37.00	40.24	-53.15	-25.00	28.15	Vertical



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Report No.: SEWM2311000456RG02
 Rev.: 01
 Page: 141 of 1245

Test Band = NSA 66A_N41A_TM1
 Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3800	47.01	-48.18	29.12	-67.31	-25.00	42.31	Horizontal
2	4826.5	46.89	-48.02	31.08	-65.30	-25.00	40.30	Horizontal
3	5409.5	47.34	-47.71	32.48	-63.15	-25.00	38.15	Horizontal
4	7256	46.41	-46.18	36.21	-58.81	-25.00	33.81	Horizontal
5	9404	45.14	-43.02	37.96	-55.18	-25.00	30.18	Horizontal
6	14315.5	39.86	-38.44	40.65	-53.20	-25.00	28.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3773.5	47.58	-48.27	29.08	-66.86	-25.00	41.86	Vertical
2	5452	47.59	-47.66	32.58	-62.75	-25.00	37.75	Vertical
3	6857.5	46.85	-46.80	35.29	-59.92	-25.00	34.92	Vertical
4	9444	45.03	-42.75	38.00	-54.98	-25.00	29.98	Vertical
5	12026	41.29	-39.47	39.18	-54.26	-25.00	29.26	Vertical
6	14688.5	38.07	-36.83	40.35	-53.67	-25.00	28.67	Vertical



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Member of the SGS Group (SGS SA)



Report No.: SEWM2311000456RG02
 Rev.: 01
 Page: 142 of 1245

Test Band = NSA 66A_N41A_TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3963	47.05	-48.22	29.35	-67.08	-25.00	42.08	Horizontal
2	5307	47.62	-47.78	32.24	-63.18	-25.00	38.18	Horizontal
3	7348.5	46.61	-46.16	36.44	-58.38	-25.00	33.38	Horizontal
4	10287	42.33	-41.28	38.76	-55.45	-25.00	30.45	Horizontal
5	13572	40.43	-39.09	39.92	-54.00	-25.00	29.00	Horizontal
6	17880.5	38.45	-36.63	44.54	-48.91	-25.00	23.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3796.5	47.39	-48.19	29.12	-66.95	-25.00	41.95	Vertical
2	5384	47.77	-47.73	32.42	-62.80	-25.00	37.80	Vertical
3	7383	46.43	-46.17	36.52	-58.48	-25.00	33.48	Vertical
4	9386.5	45.21	-43.03	37.95	-55.13	-25.00	30.13	Vertical
5	13735	40.05	-38.33	40.29	-53.25	-25.00	28.25	Vertical
6	17907	38.34	-36.45	44.70	-48.67	-25.00	23.67	Vertical



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Test Band = NSA 66A_N41A_TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3584	47.08	-48.28	28.82	-67.64	-25.00	42.64	Horizontal
2	4955.5	46.37	-48.02	31.39	-65.52	-25.00	40.52	Horizontal
3	6698.5	46.29	-46.56	34.94	-60.59	-25.00	35.59	Horizontal
4	7783	46.54	-44.96	36.46	-57.22	-25.00	32.22	Horizontal
5	11111	41.11	-40.36	39.38	-55.13	-25.00	30.13	Horizontal
6	14393.5	40.17	-38.57	40.59	-53.07	-25.00	28.07	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3912	47.25	-48.28	29.28	-67.01	-25.00	42.01	Vertical
2	5411	48.05	-47.71	32.49	-62.43	-25.00	37.43	Vertical
3	7318.5	46.71	-46.16	36.36	-58.35	-25.00	33.35	Vertical
4	9471	44.79	-42.57	38.02	-55.01	-25.00	30.01	Vertical
5	13678	39.55	-38.21	40.16	-53.76	-25.00	28.76	Vertical
6	15007.5	38.50	-38.03	40.09	-54.71	-25.00	29.71	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 15k_SISO_10MHz_NTNV

4.1.1 Test Result

5G NR n41 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	2501.01	Outer_Full	9.05	9.75	/	Pass
	2593.005	Outer_Full	9.08	9.74	/	Pass
	2685	Outer_Full	9.18	9.93	/	Pass
DFT-s-OFDM QPSK	2501.01	Outer_Full	9.04	9.66	/	Pass
	2593.005	Outer_Full	9.04	9.67	/	Pass
	2685	Outer_Full	9.14	9.80	/	Pass
DFT-s-OFDM 16 QAM	2501.01	Outer_Full	9.03	9.71	/	Pass
	2593.005	Outer_Full	9.03	9.67	/	Pass
	2685	Outer_Full	9.11	9.78	/	Pass
DFT-s-OFDM 64 QAM	2501.01	Outer_Full	9.06	9.71	/	Pass
	2593.005	Outer_Full	9.04	9.74	/	Pass
	2685	Outer_Full	9.13	9.80	/	Pass
DFT-s-OFDM 256 QAM	2501.01	Outer_Full	9.03	9.66	/	Pass
	2593.005	Outer_Full	9.03	9.64	/	Pass
	2685	Outer_Full	9.07	9.69	/	Pass
CP-OFDM QPSK	2501.01	Outer_Full	9.35	10.05	/	Pass
	2593.005	Outer_Full	9.35	10.01	/	Pass
	2685	Outer_Full	9.43	10.12	/	Pass
CP-OFDM 16 QAM	2501.01	Outer_Full	9.37	10.06	/	Pass
	2593.005	Outer_Full	9.36	10.04	/	Pass
	2685	Outer_Full	9.43	10.13	/	Pass
CP-OFDM 64 QAM	2501.01	Outer_Full	9.38	10.06	/	Pass
	2593.005	Outer_Full	9.38	10.02	/	Pass
	2685	Outer_Full	9.46	10.11	/	Pass
CP-OFDM 256 QAM	2501.01	Outer_Full	9.38	10.07	/	Pass
	2593.005	Outer_Full	9.40	10.02	/	Pass
	2685	Outer_Full	9.37	10.02	/	Pass

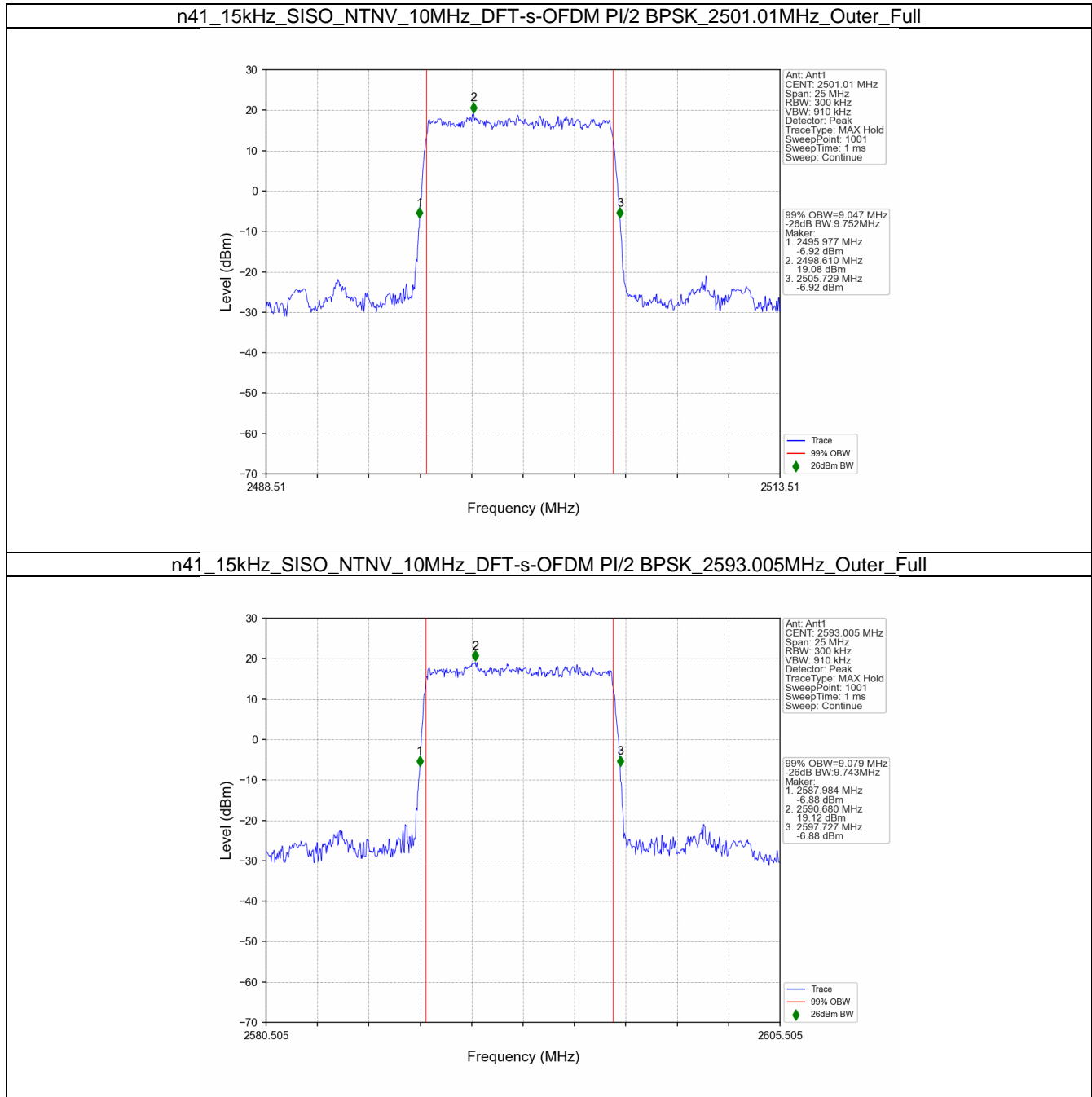


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4.1.2 Test Graph

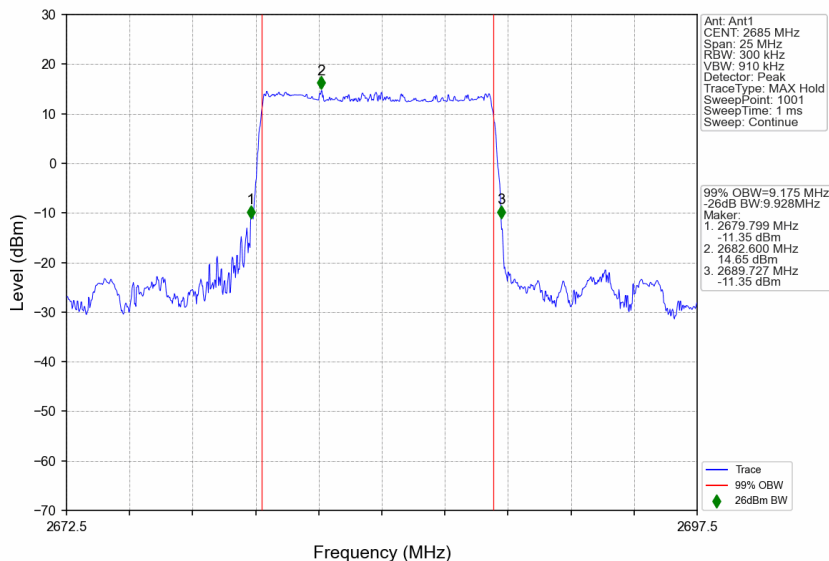


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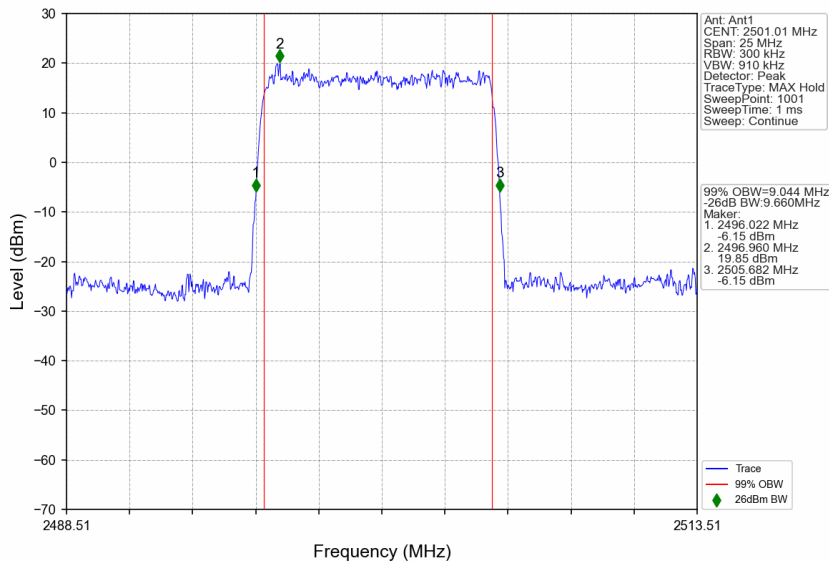
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Outer_Full

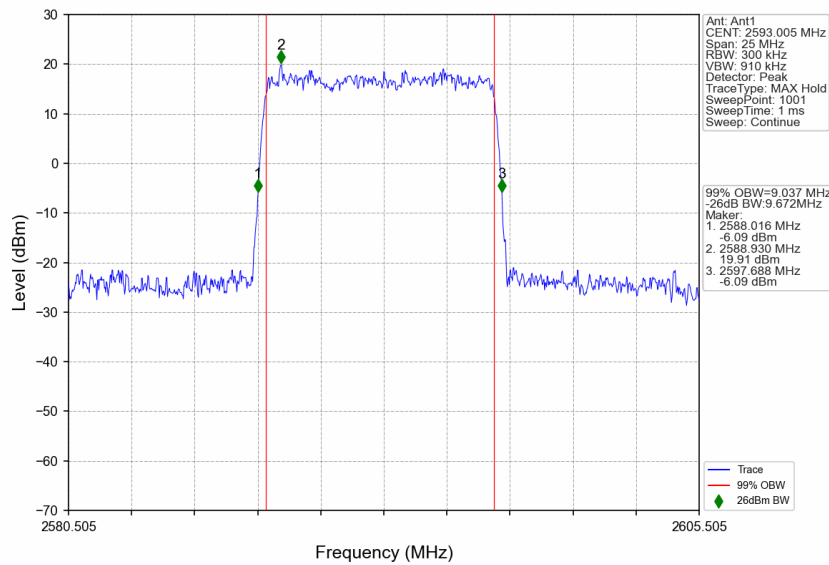


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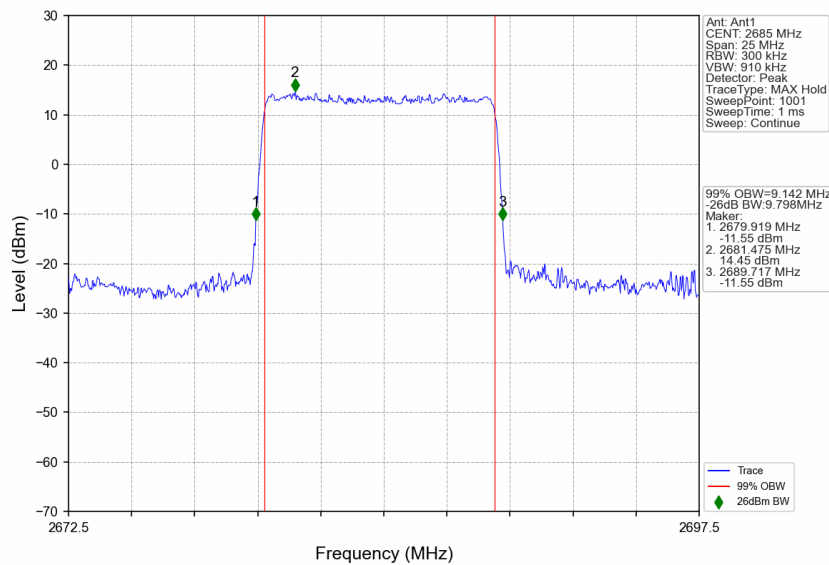
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Outer_Full

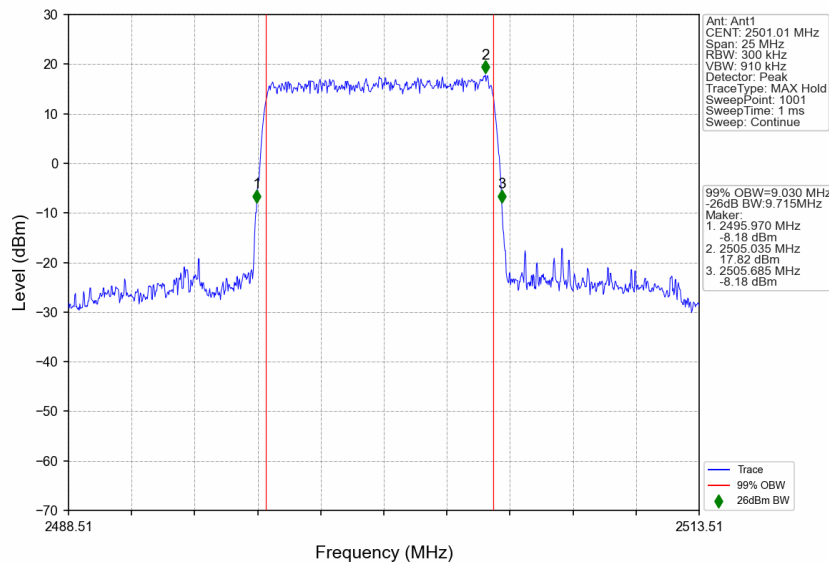


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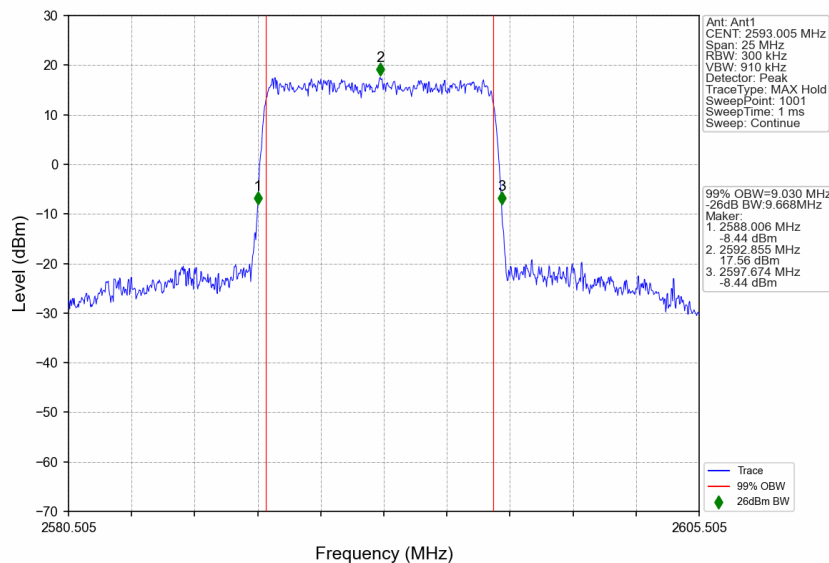
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2501.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2593.005MHz_Outer_Full



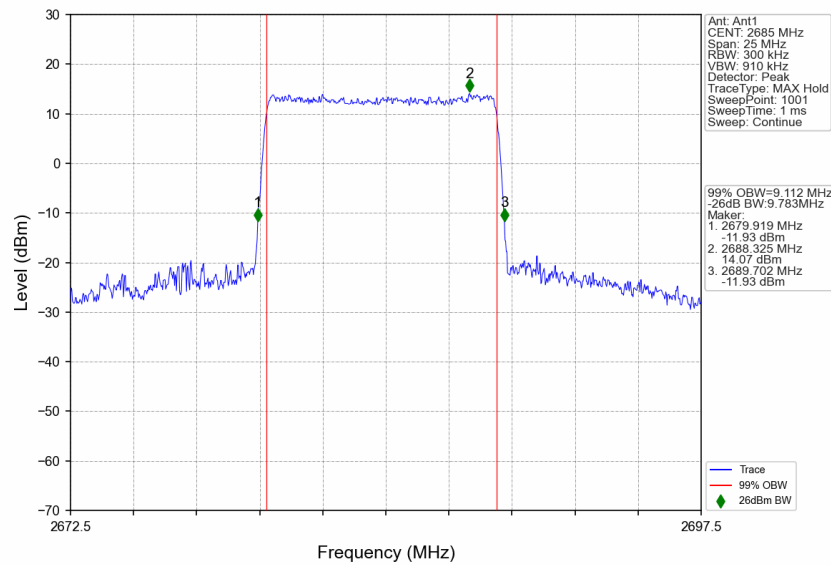
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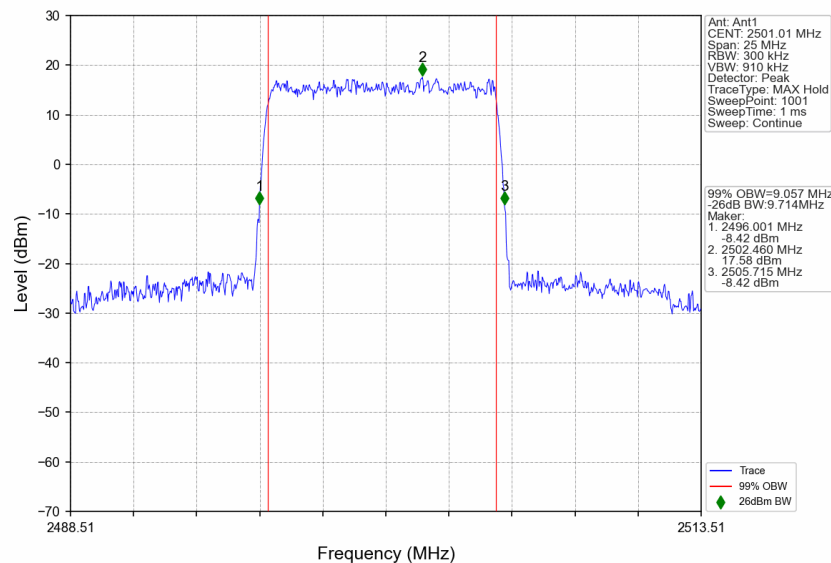
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2685MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2501.01MHz_Outer_Full

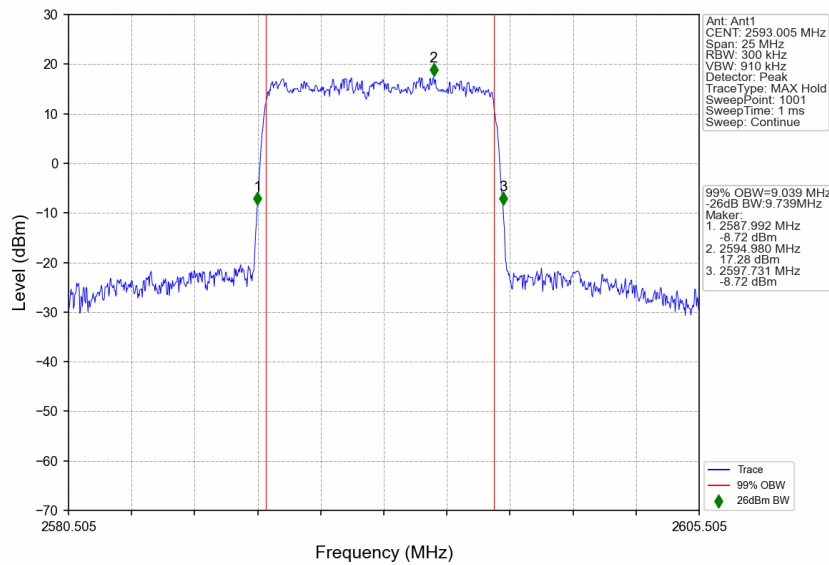


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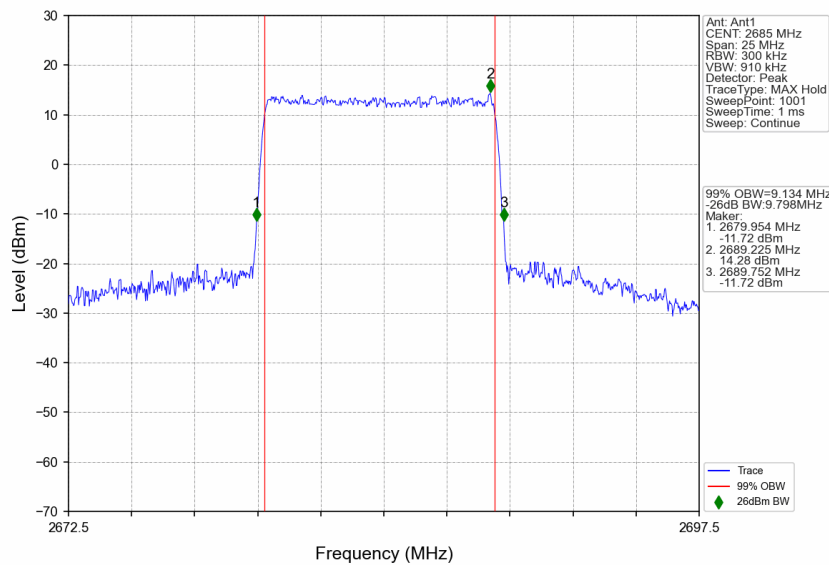
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2685MHz_Outer_Full

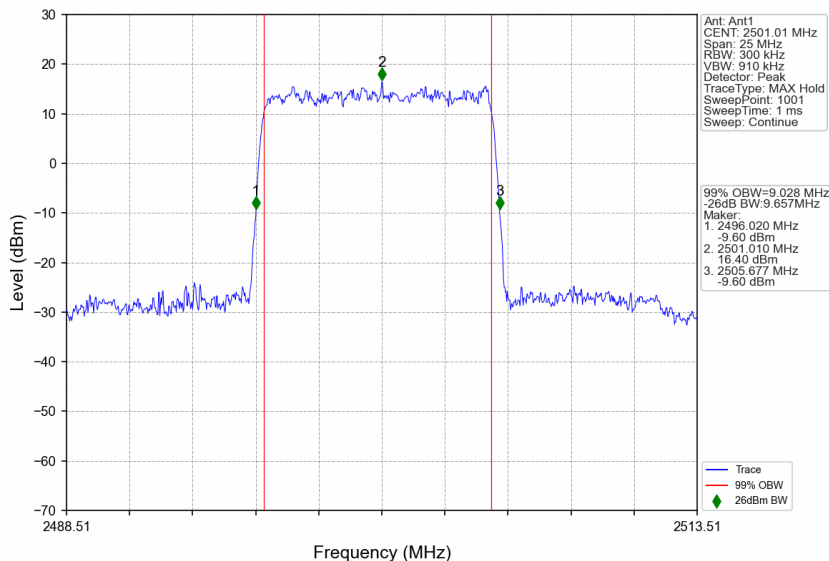


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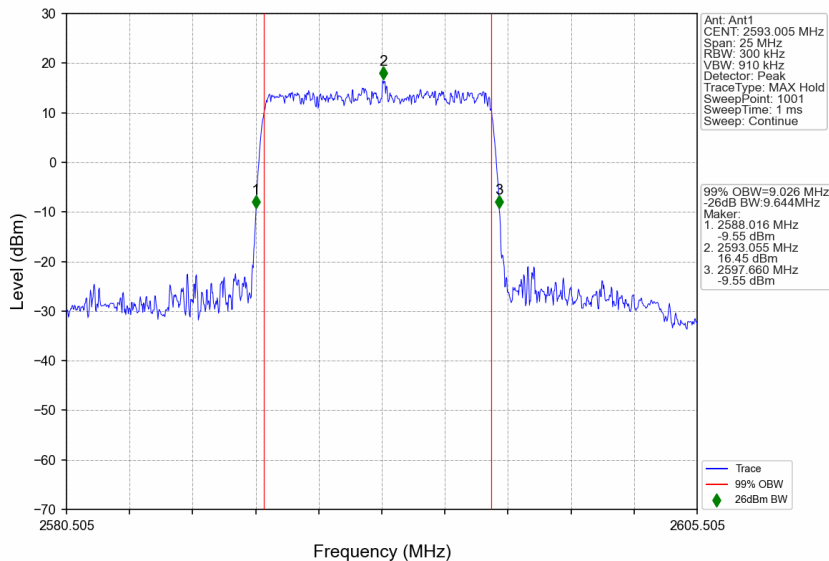
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2593.005MHz_Outer_Full

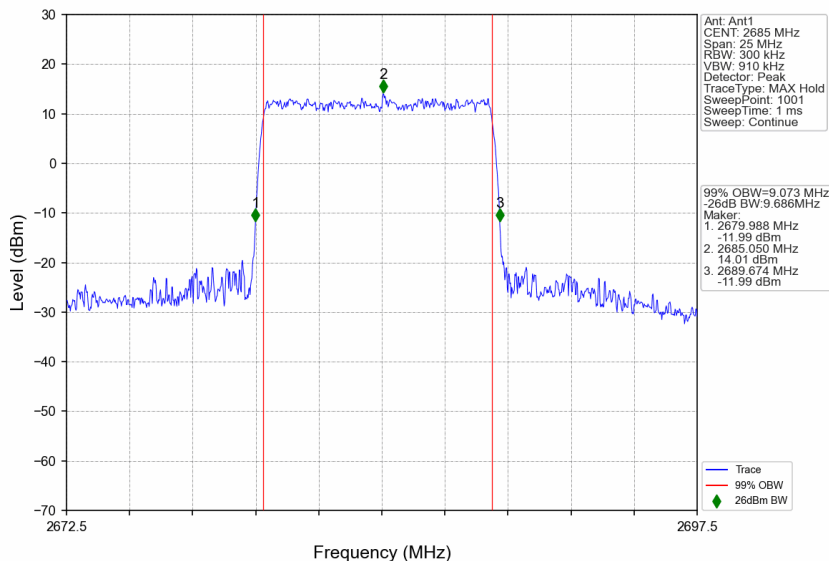


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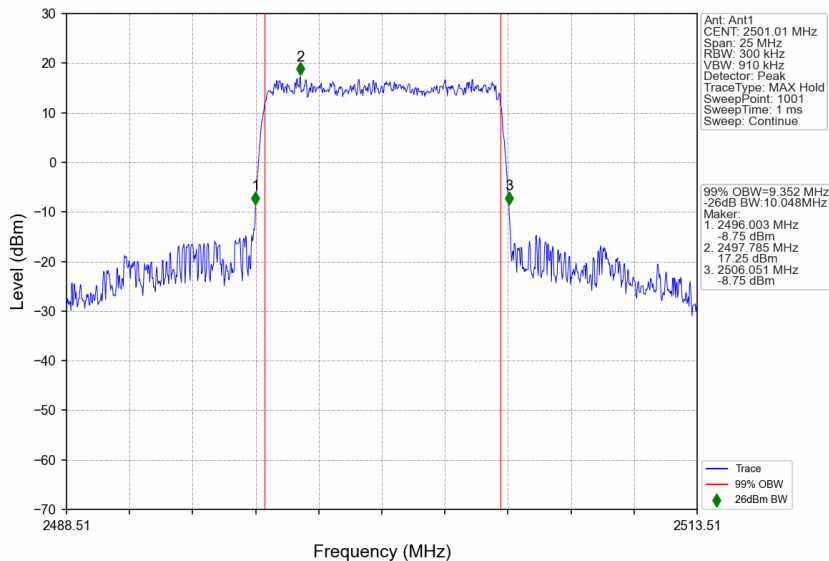
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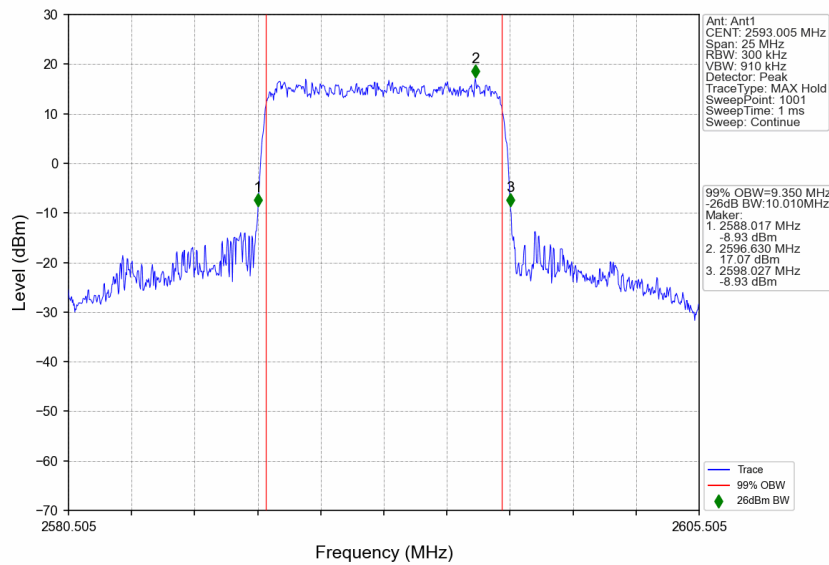


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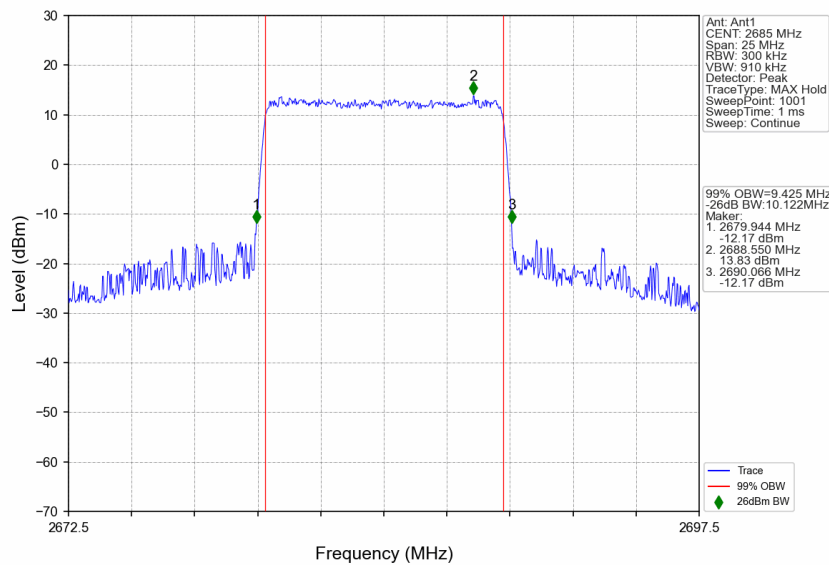
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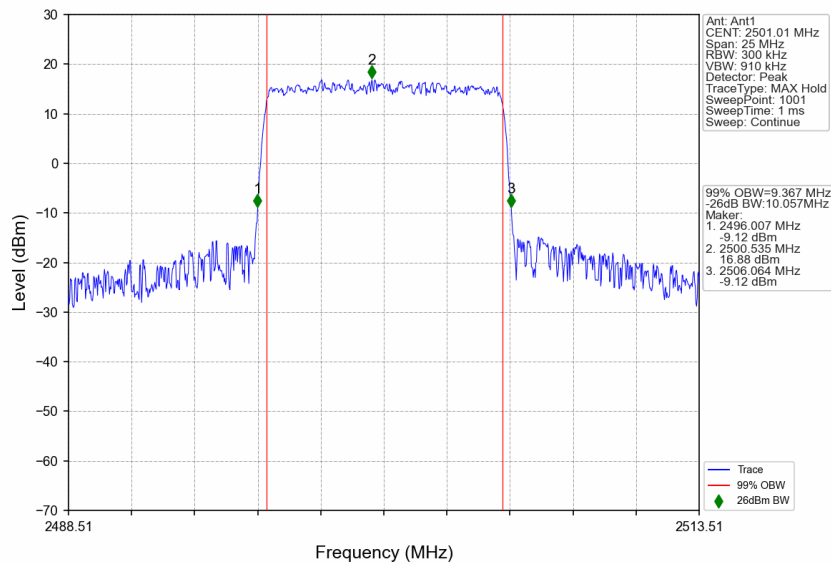


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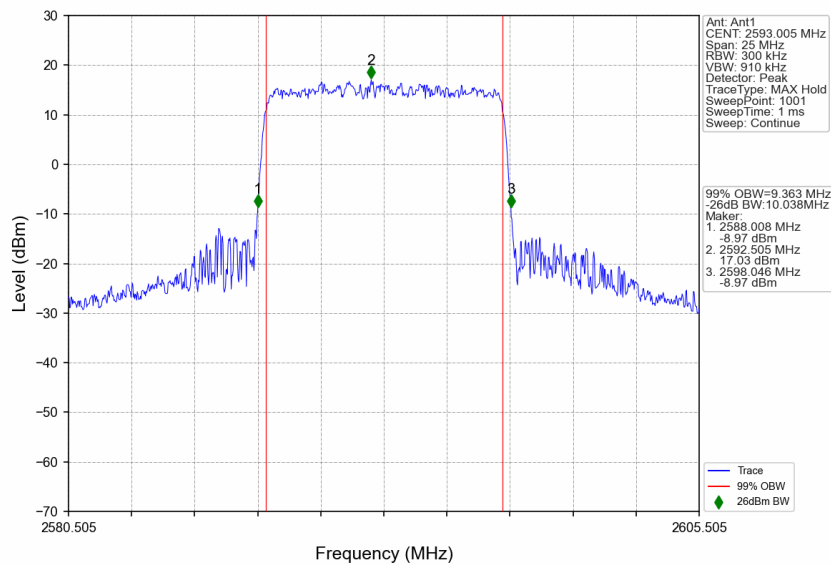
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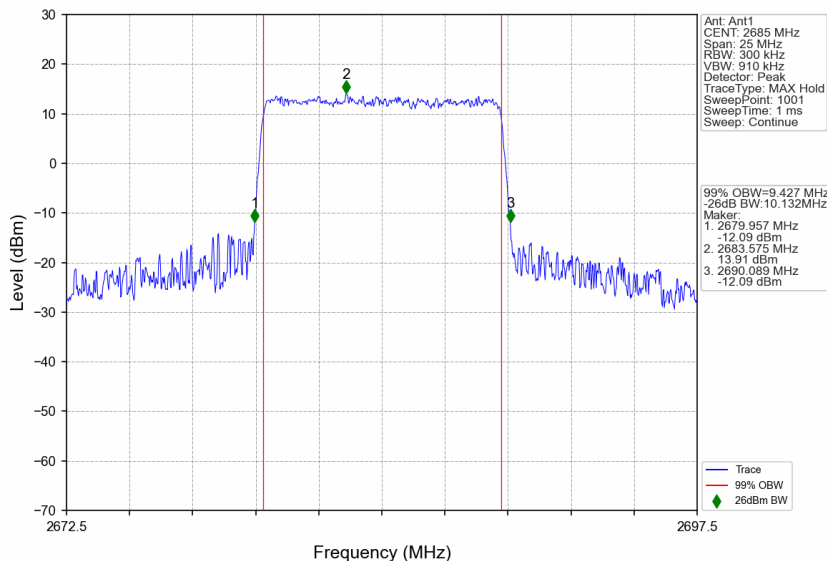


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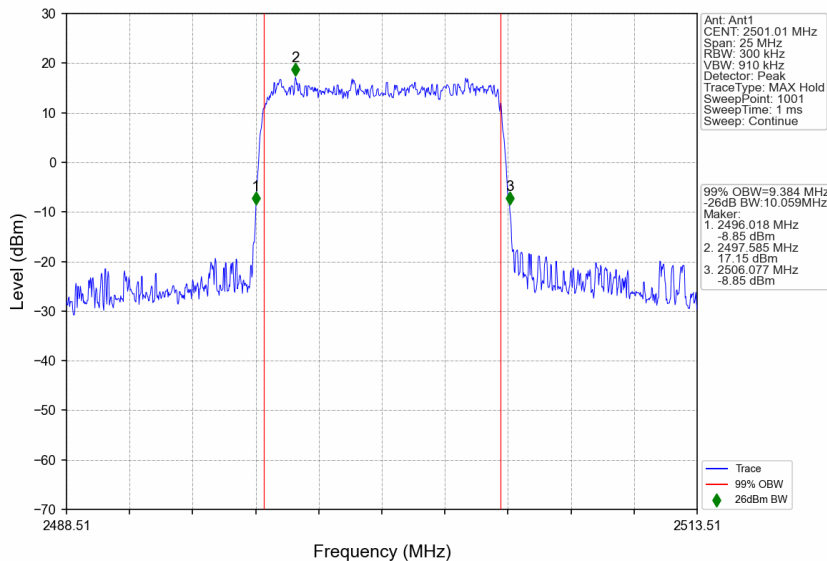
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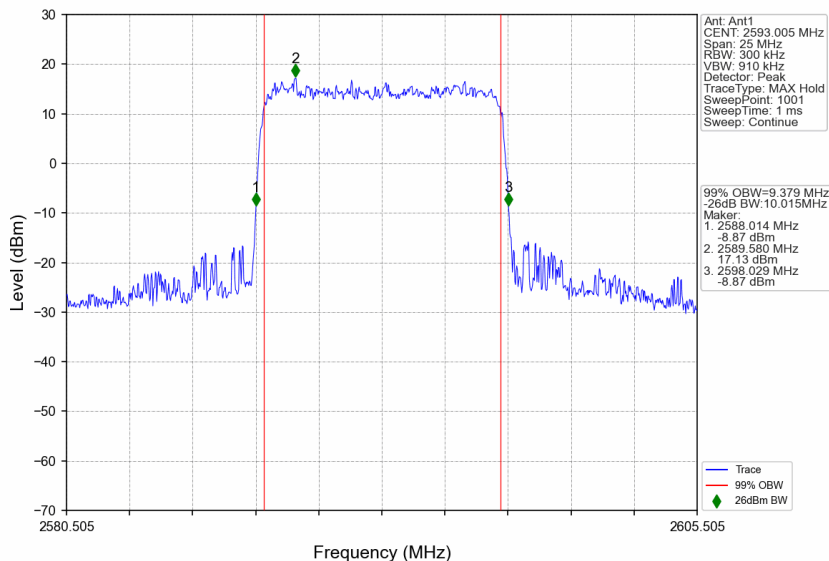


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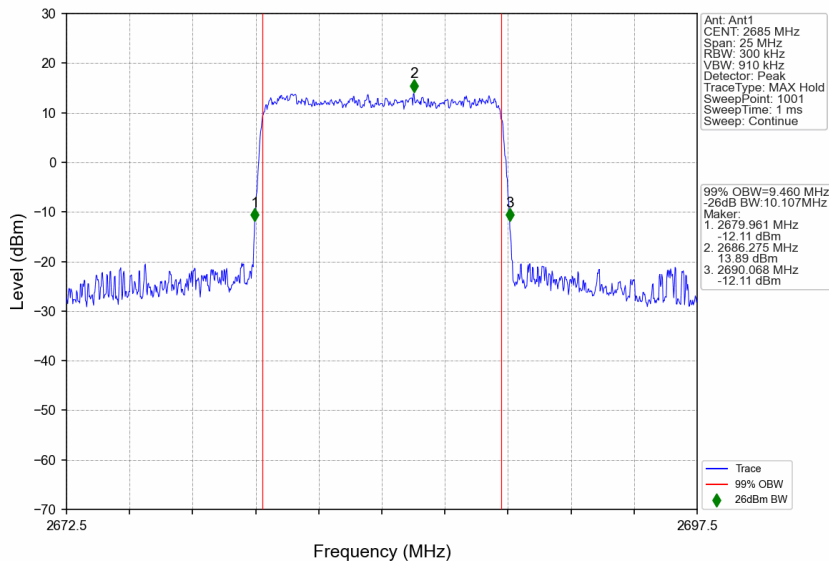
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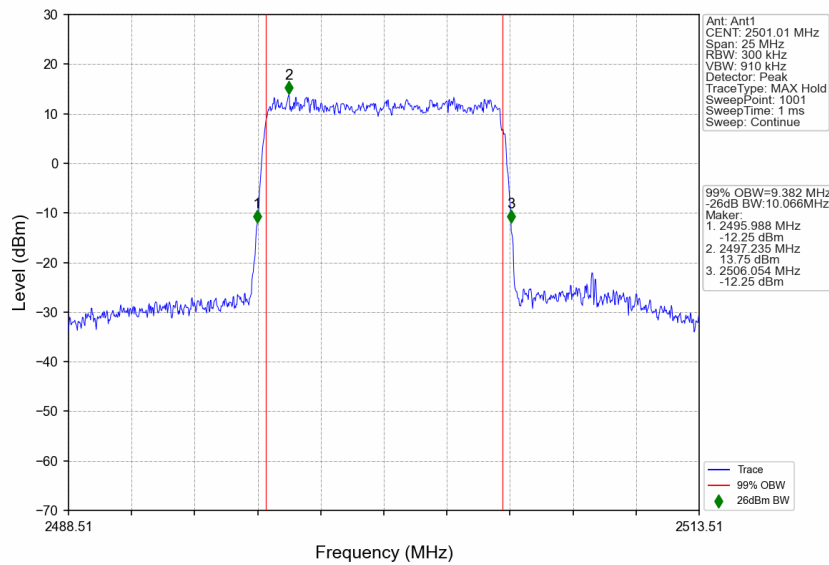


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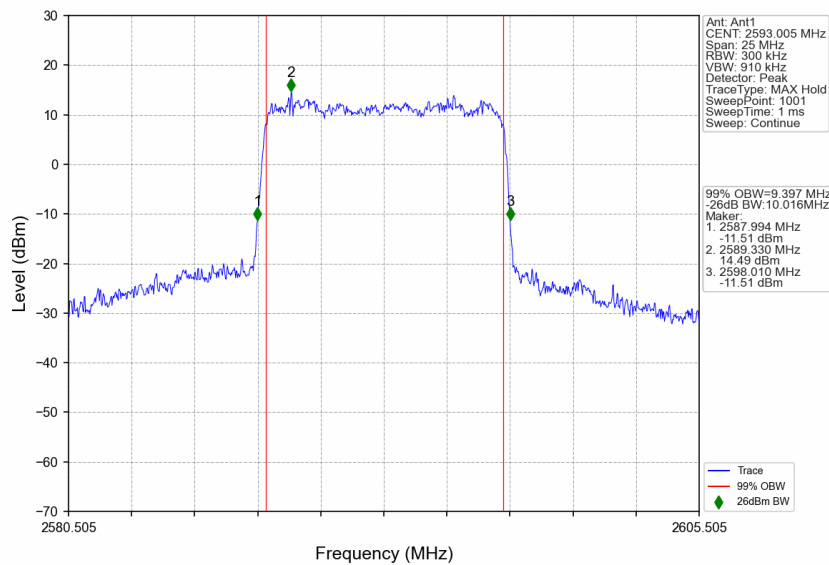
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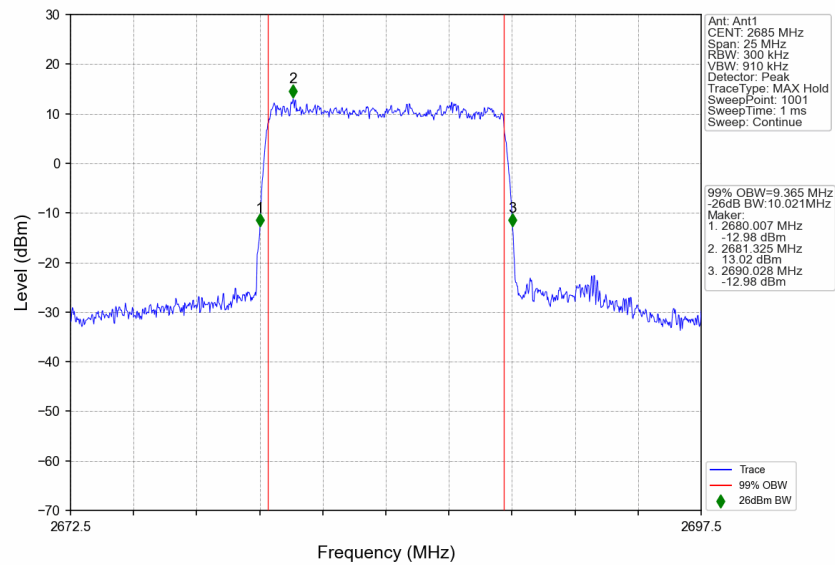
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4.2 15k_SISO_15MHz_NTNV

4.2.1 Test Result

5G NR n41 SCS=15kHz SISO 15MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2503.5	Outer_Full	13.62	14.56	/	Pass
	2593.005	Outer_Full	13.61	14.54	/	Pass
	2682.495	Outer_Full	13.57	14.55	/	Pass
DFT-s-OFDM QPSK	2503.5	Outer_Full	13.59	14.57	/	Pass
	2593.005	Outer_Full	13.58	14.57	/	Pass
	2682.495	Outer_Full	13.58	14.56	/	Pass
DFT-s-OFDM 16 QAM	2503.5	Outer_Full	13.57	14.56	/	Pass
	2593.005	Outer_Full	13.54	14.55	/	Pass
	2682.495	Outer_Full	13.56	14.56	/	Pass
DFT-s-OFDM 64 QAM	2503.5	Outer_Full	13.58	14.57	/	Pass
	2593.005	Outer_Full	13.58	14.55	/	Pass
	2682.495	Outer_Full	13.59	14.58	/	Pass
DFT-s-OFDM 256 QAM	2503.5	Outer_Full	13.56	14.54	/	Pass
	2593.005	Outer_Full	13.57	14.57	/	Pass
	2682.495	Outer_Full	13.54	14.54	/	Pass
CP-OFDM QPSK	2503.5	Outer_Full	14.23	15.24	/	Pass
	2593.005	Outer_Full	14.21	15.25	/	Pass
	2682.495	Outer_Full	14.23	15.25	/	Pass
CP-OFDM 16 QAM	2503.5	Outer_Full	14.21	15.28	/	Pass
	2593.005	Outer_Full	14.29	15.28	/	Pass
	2682.495	Outer_Full	14.31	15.32	/	Pass
CP-OFDM 64 QAM	2503.5	Outer_Full	14.28	15.27	/	Pass
	2593.005	Outer_Full	14.28	15.28	/	Pass
	2682.495	Outer_Full	14.30	15.26	/	Pass
CP-OFDM 256 QAM	2503.5	Outer_Full	14.27	15.21	/	Pass
	2593.005	Outer_Full	14.26	15.26	/	Pass
	2682.495	Outer_Full	14.26	15.27	/	Pass

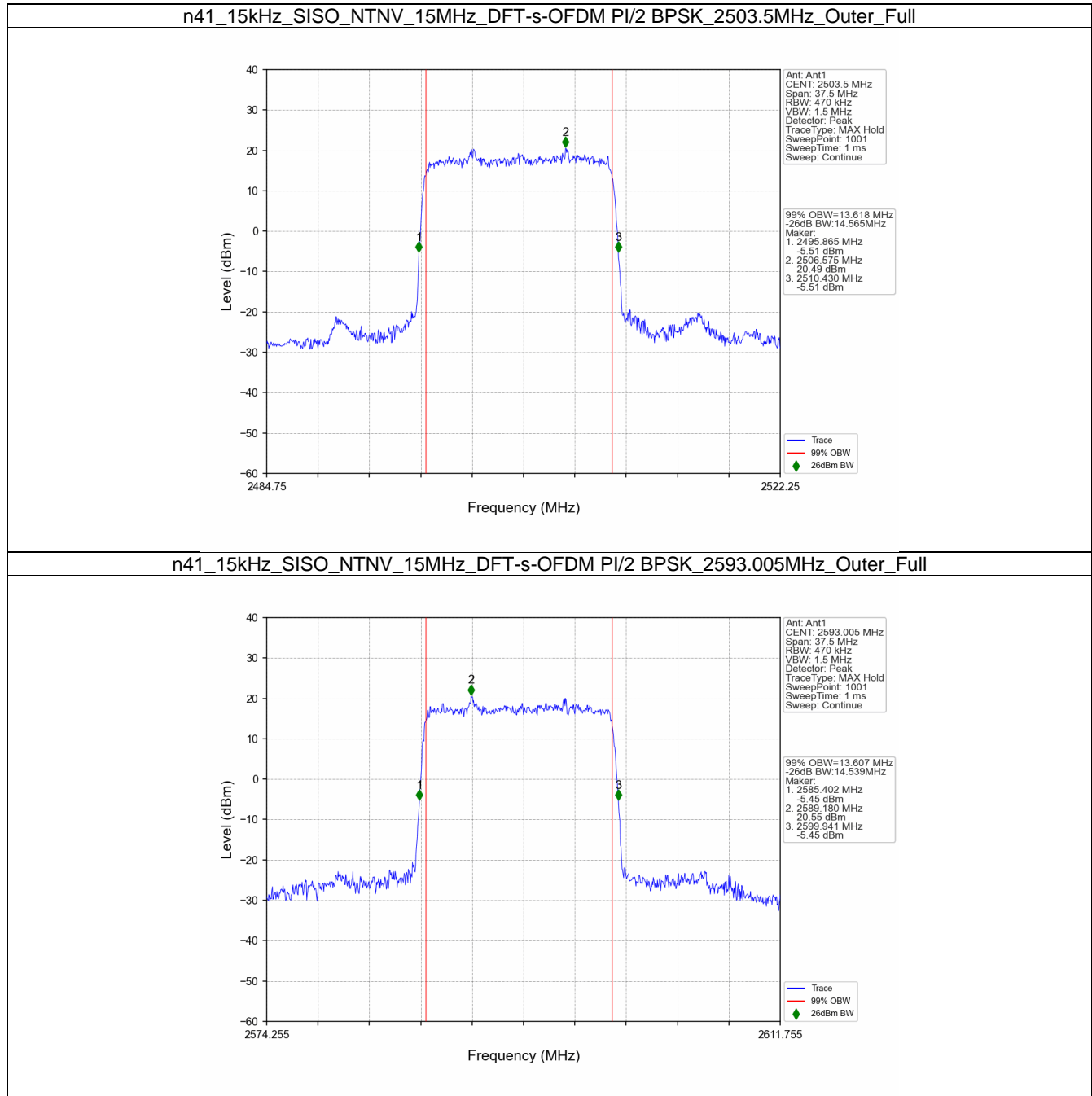


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4.2.2 Test Graph

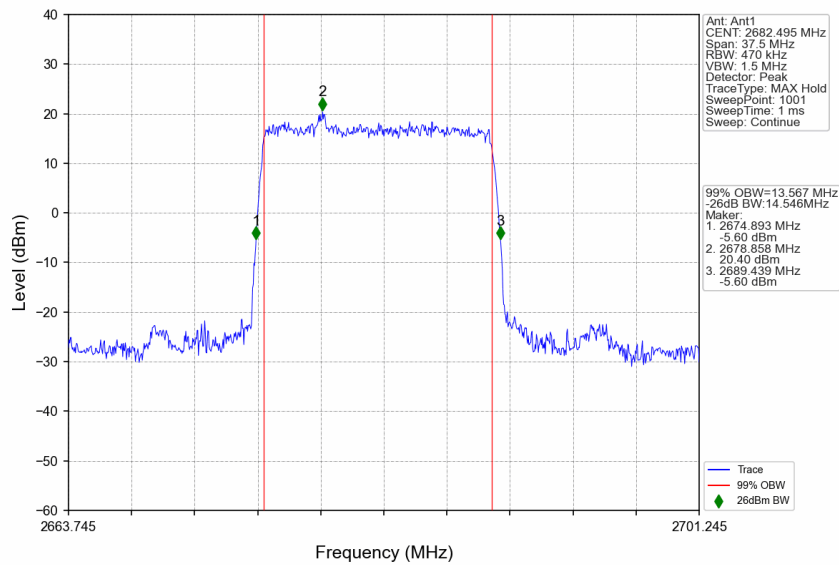


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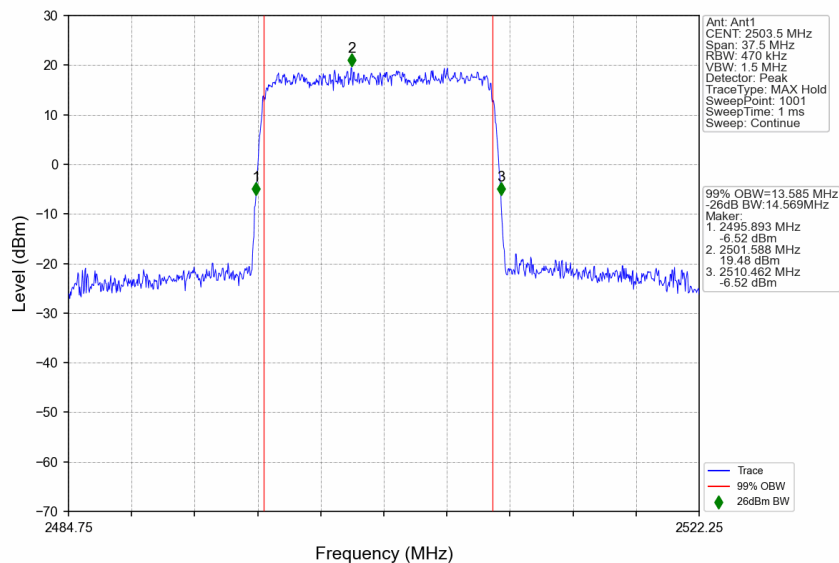
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2682.495MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2503.5MHz_Outer_Full

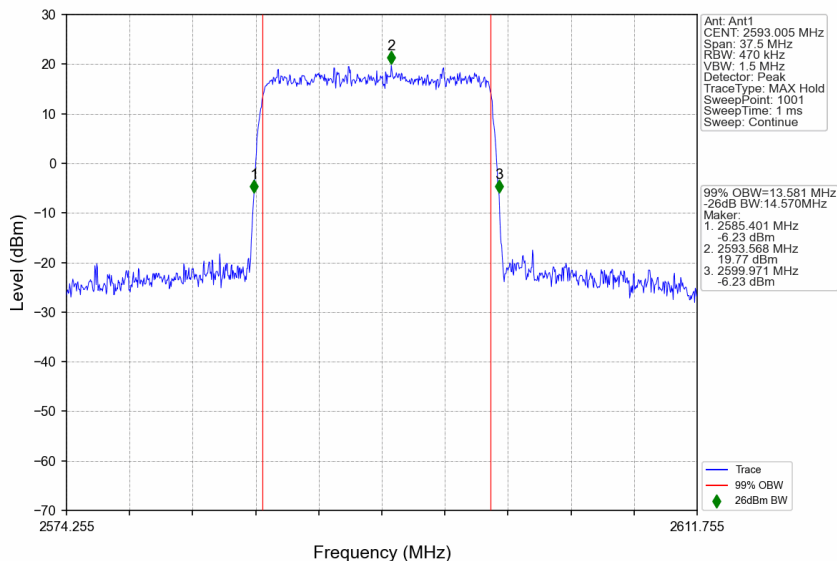


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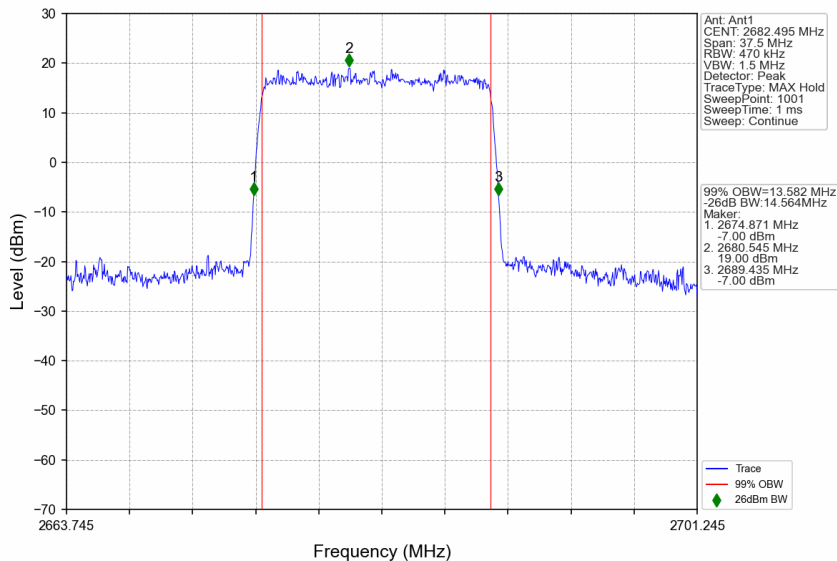
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2682.495MHz_Outer_Full

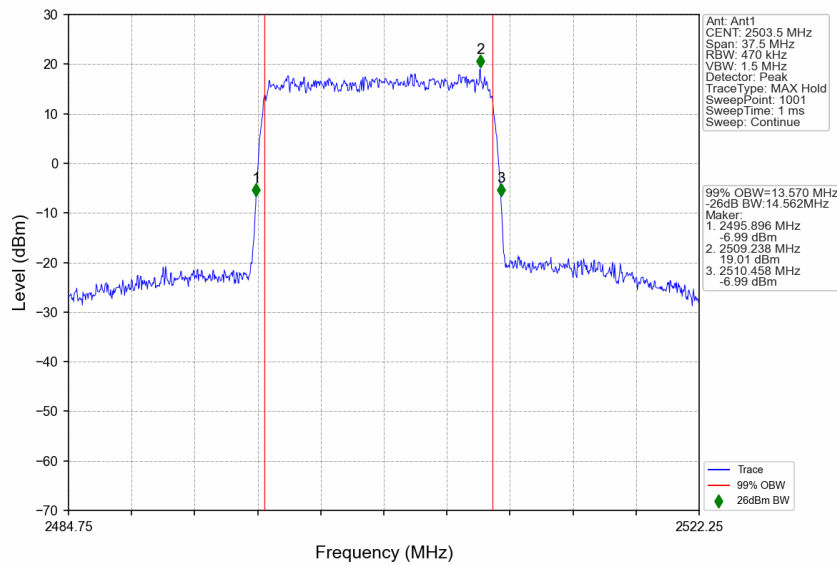


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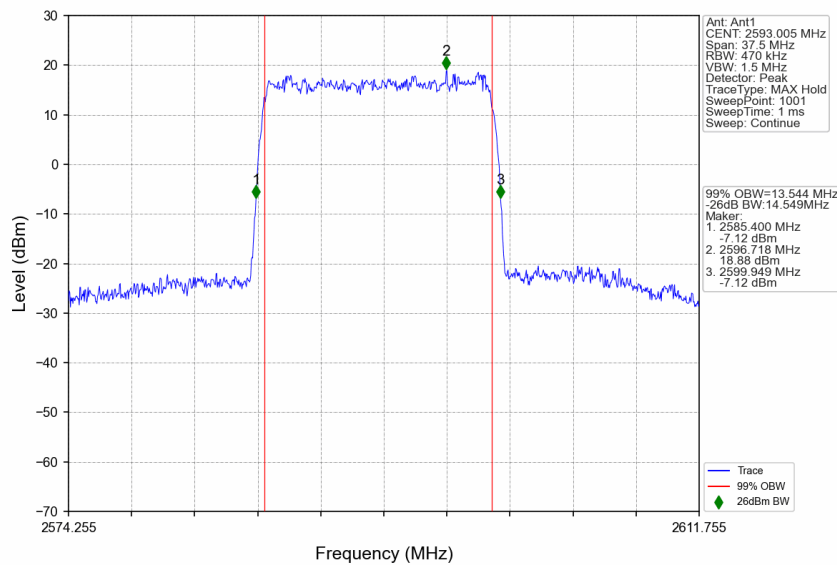
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2593.005MHz_Outer_Full

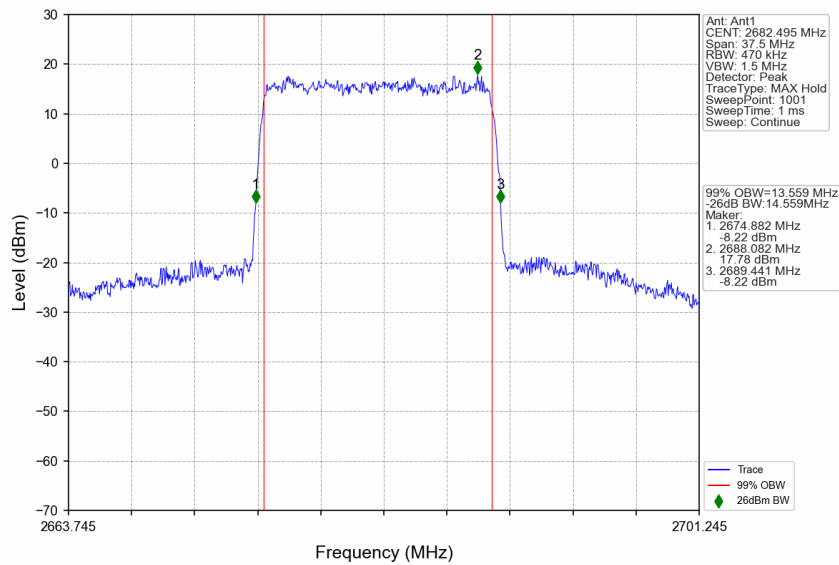


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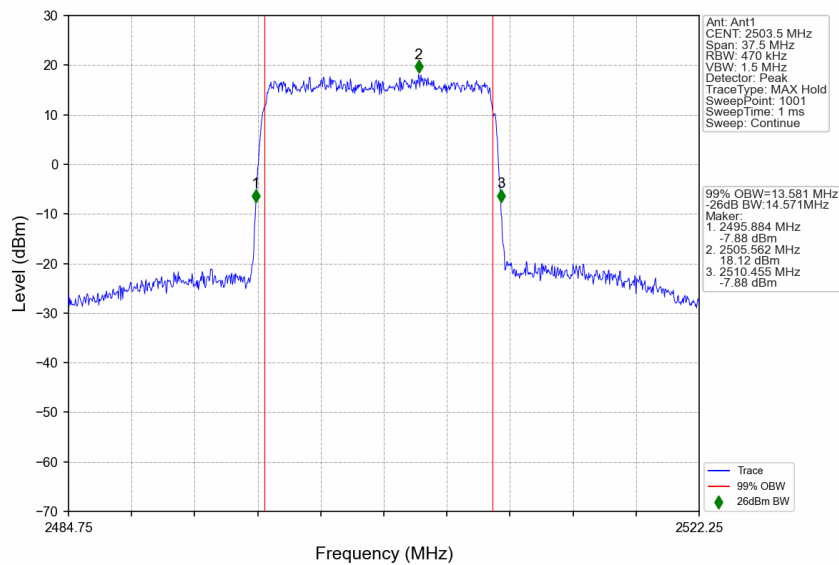
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2682.495MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2503.5MHz_Outer_Full

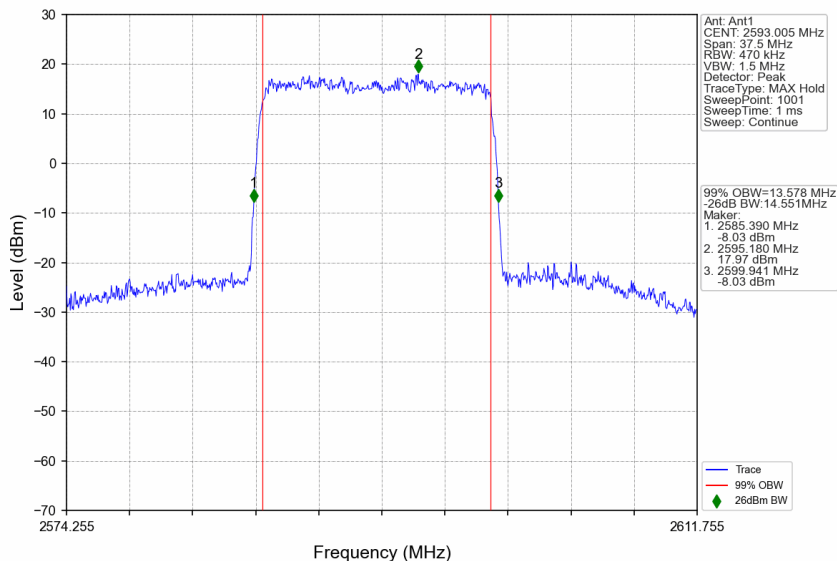


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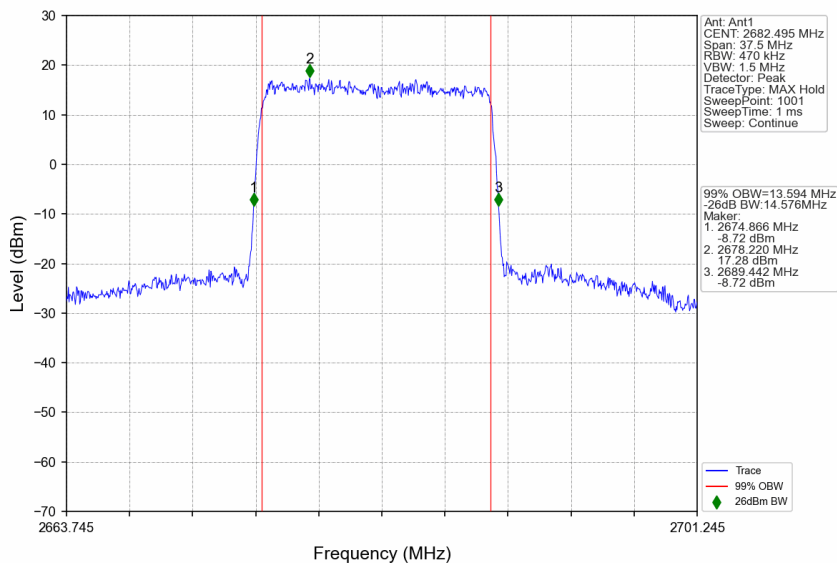
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2682.495MHz_Outer_Full

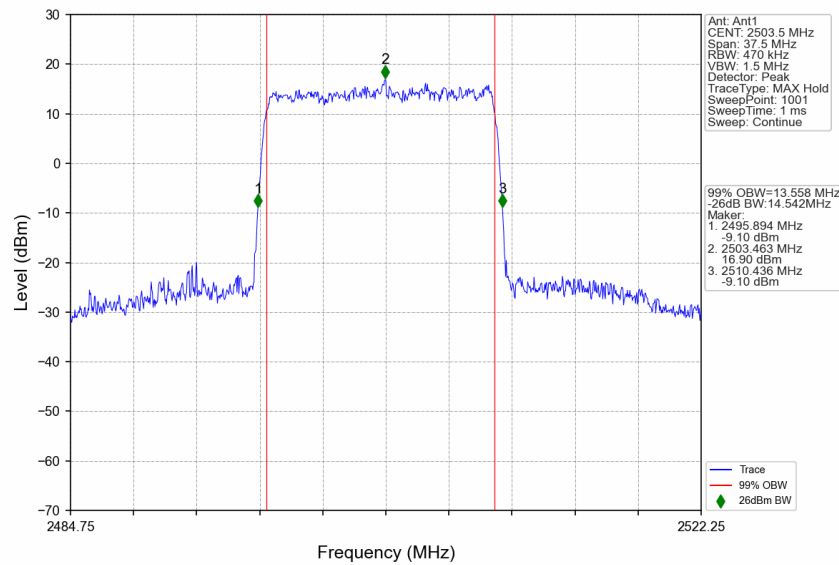


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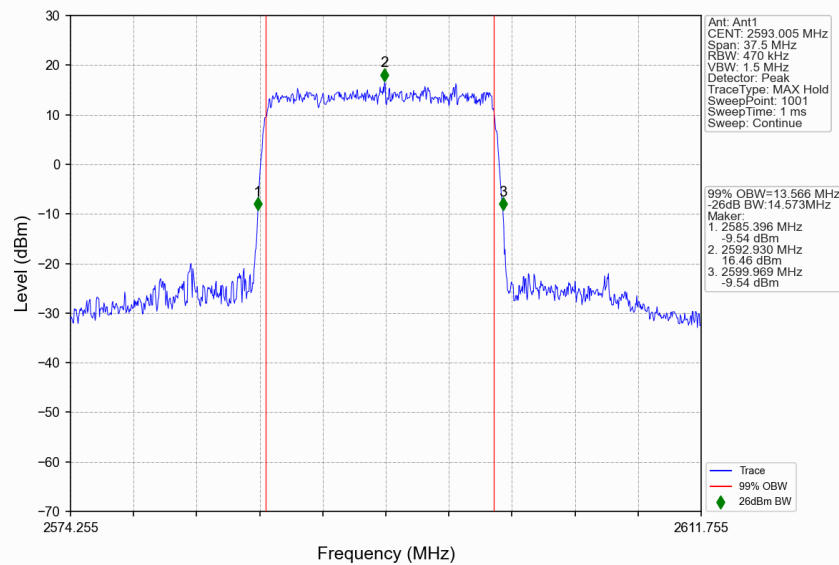
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2593.005MHz_Outer_Full



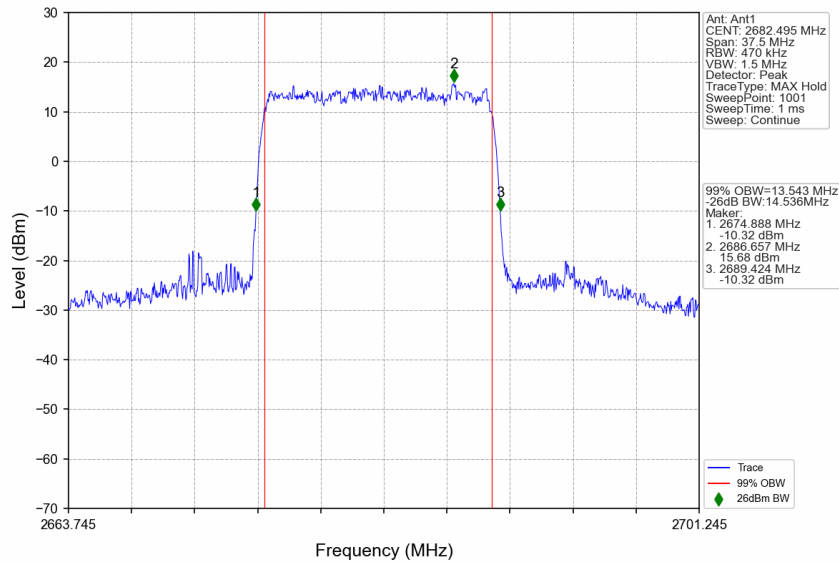
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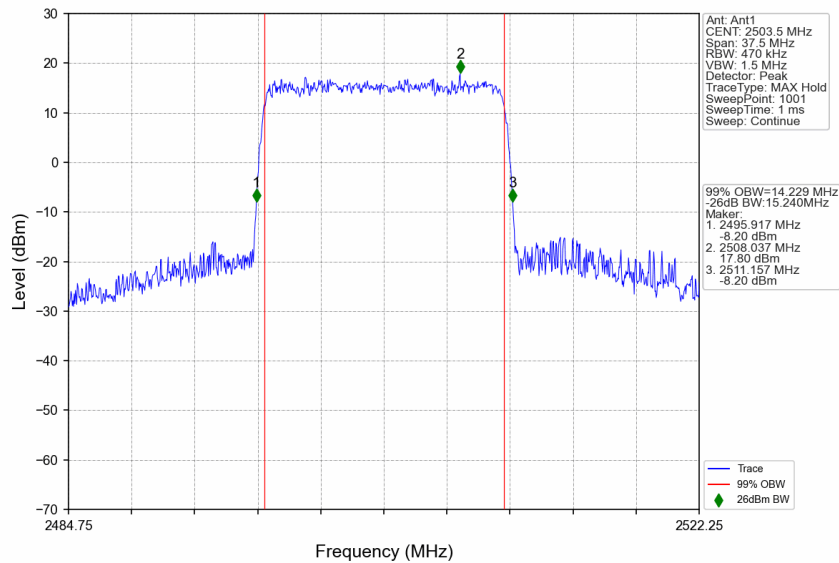
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n41_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2682.495MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2503.5MHz_Outer_Full

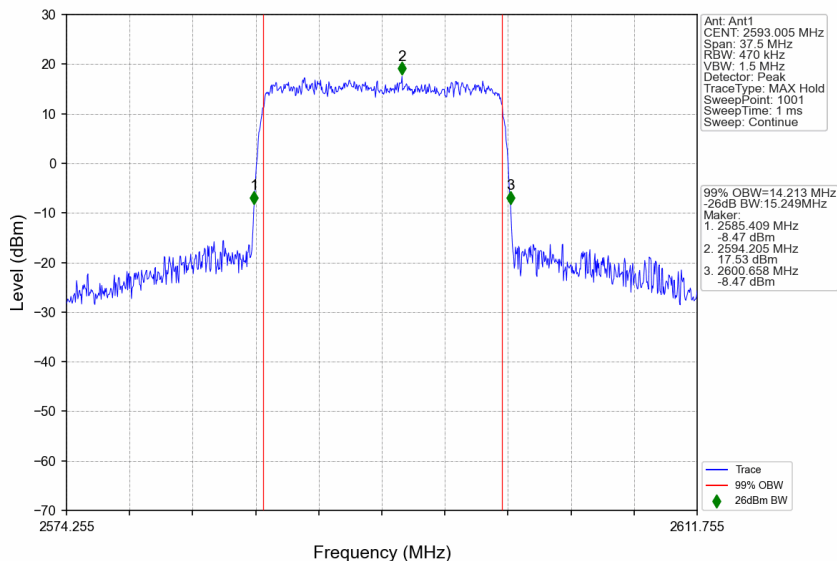


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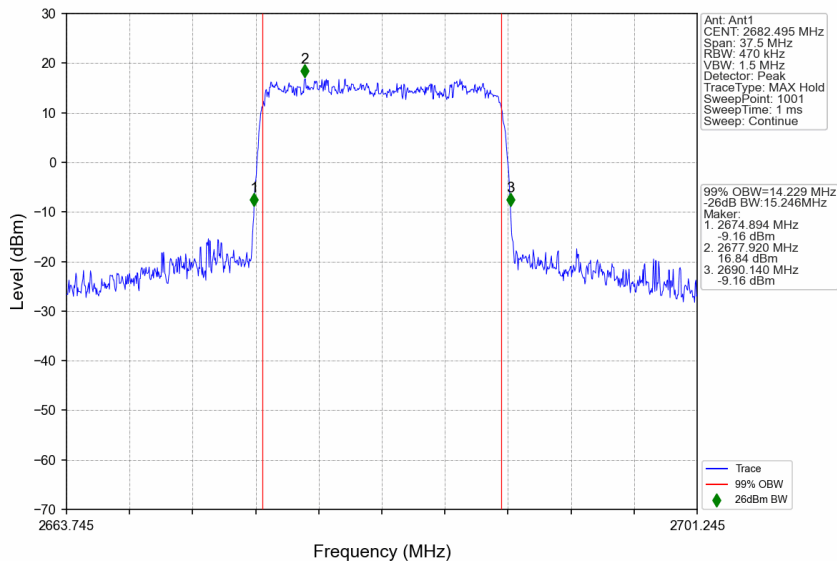
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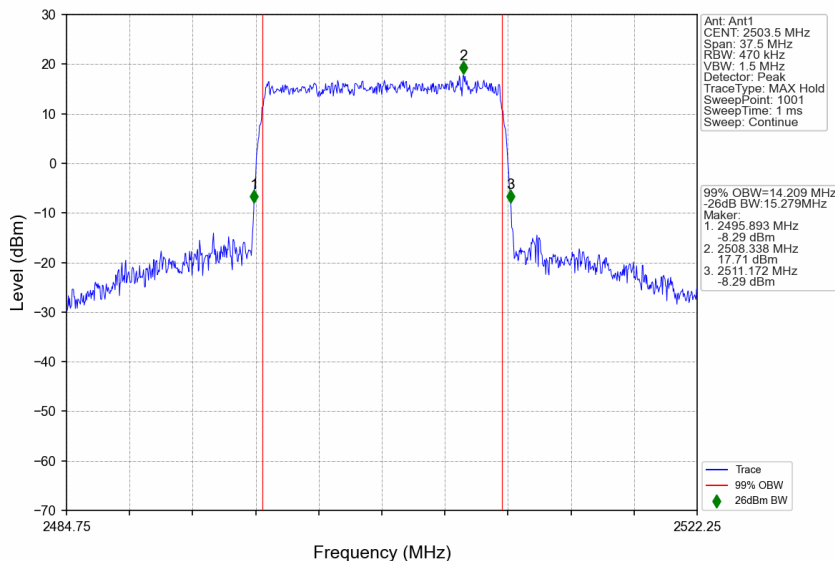


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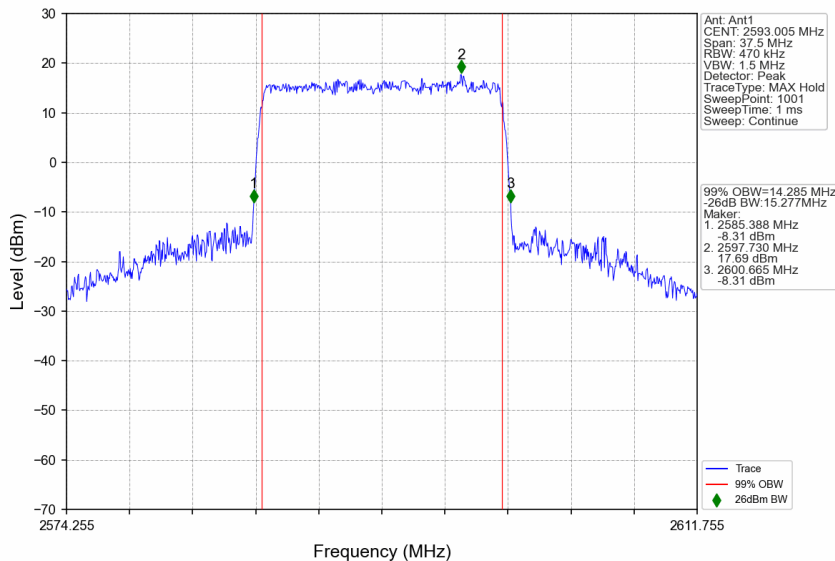
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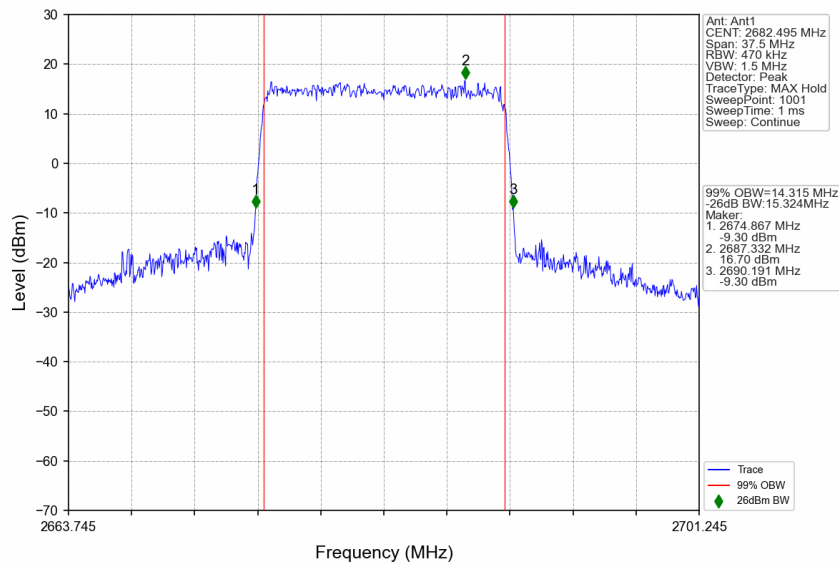


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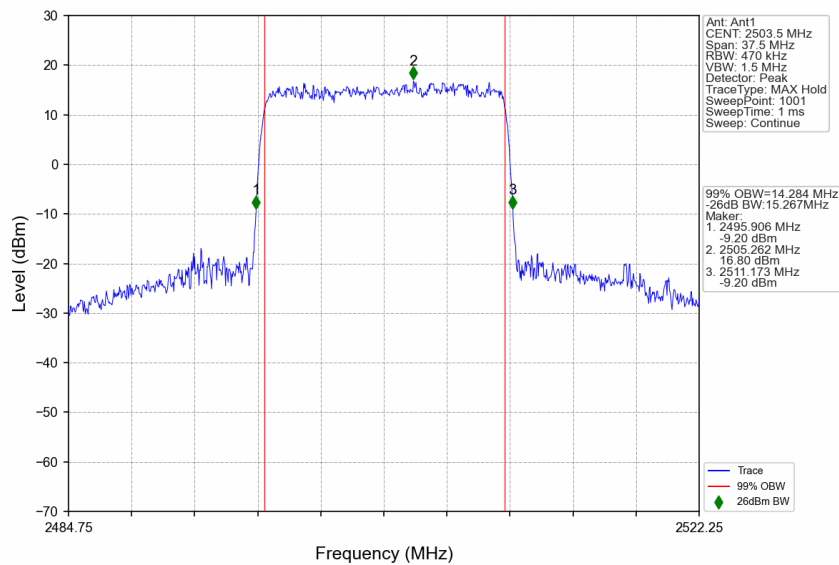
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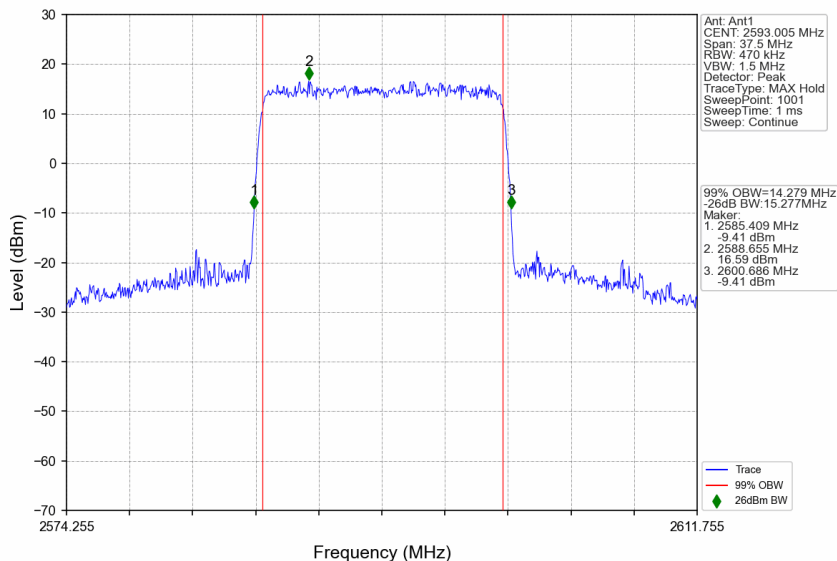


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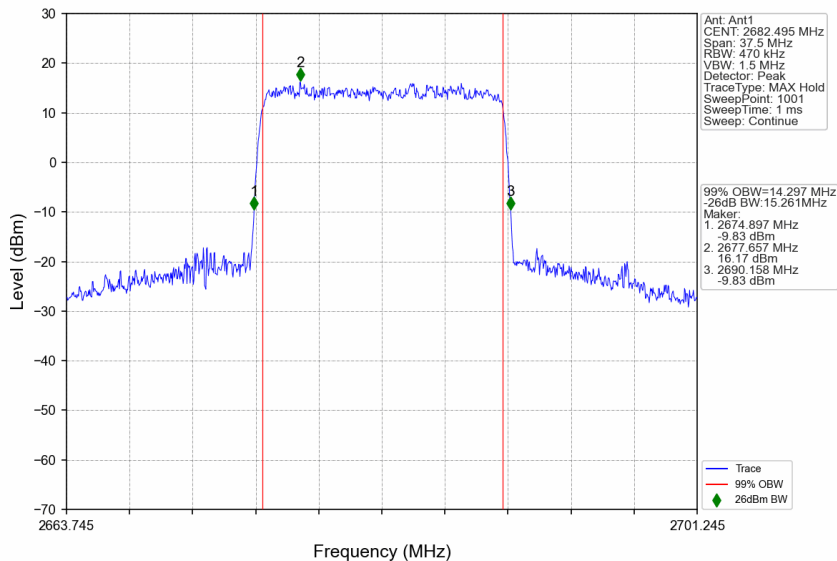
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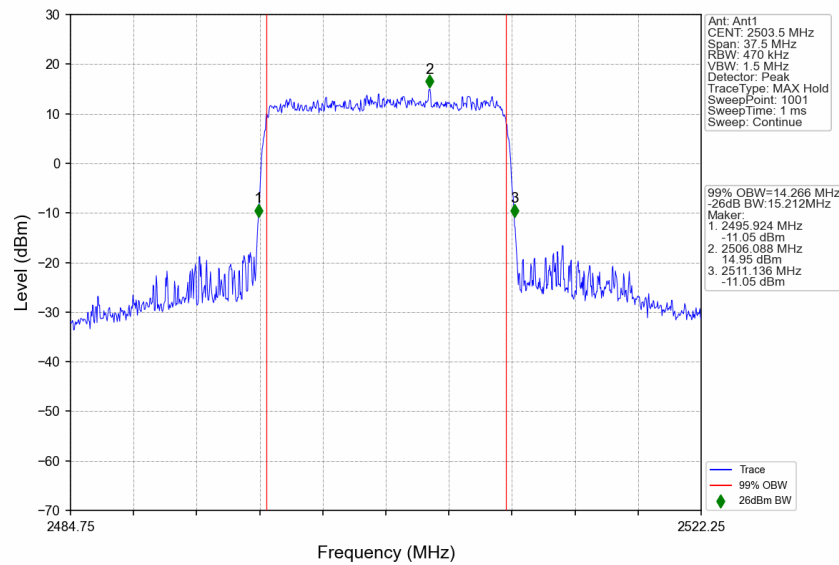


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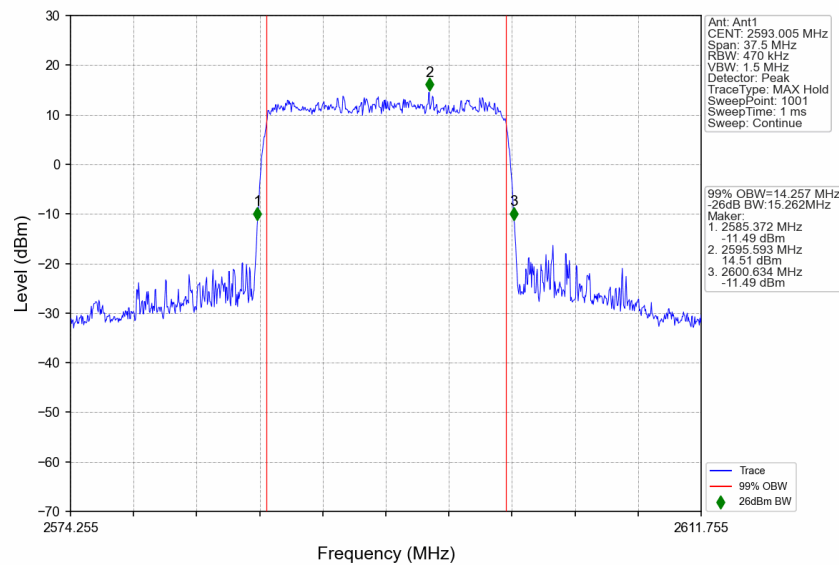
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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2503.5MHz_Outer_Full



n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2593.005MHz_Outer_Full

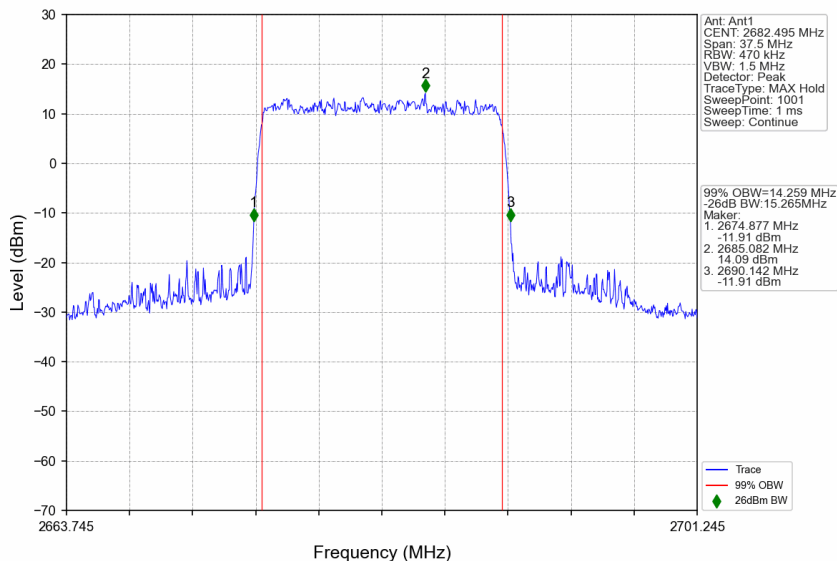


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n41_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2682.495MHz_Outer_Full



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4.3 15k_SISO_20MHz_NTNV

4.3.1 Test Result

5G NR n41 SCS=15kHz SISO 20MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2506.005	Outer_Full	18.05	19.42	/	Pass
	2593.005	Outer_Full	18.06	19.39	/	Pass
	2679.99	Outer_Full	18.09	19.36	/	Pass
DFT-s-OFDM QPSK	2506.005	Outer_Full	18.05	19.39	/	Pass
	2593.005	Outer_Full	18.05	19.40	/	Pass
	2679.99	Outer_Full	18.04	19.36	/	Pass
DFT-s-OFDM 16 QAM	2506.005	Outer_Full	18.07	19.41	/	Pass
	2593.005	Outer_Full	18.08	19.40	/	Pass
	2679.99	Outer_Full	18.05	19.40	/	Pass
DFT-s-OFDM 64 QAM	2506.005	Outer_Full	18.10	19.38	/	Pass
	2593.005	Outer_Full	18.11	19.41	/	Pass
	2679.99	Outer_Full	18.12	19.39	/	Pass
DFT-s-OFDM 256 QAM	2506.005	Outer_Full	18.03	19.34	/	Pass
	2593.005	Outer_Full	18.03	19.35	/	Pass
	2679.99	Outer_Full	18.08	19.39	/	Pass
CP-OFDM QPSK	2506.005	Outer_Full	19.10	20.43	/	Pass
	2593.005	Outer_Full	19.12	20.44	/	Pass
	2679.99	Outer_Full	19.12	20.43	/	Pass
CP-OFDM 16 QAM	2506.005	Outer_Full	19.12	20.45	/	Pass
	2593.005	Outer_Full	19.11	20.47	/	Pass
	2679.99	Outer_Full	19.09	20.45	/	Pass
CP-OFDM 64 QAM	2506.005	Outer_Full	19.08	20.45	/	Pass
	2593.005	Outer_Full	19.12	20.48	/	Pass
	2679.99	Outer_Full	19.14	20.48	/	Pass
CP-OFDM 256 QAM	2506.005	Outer_Full	19.10	20.45	/	Pass
	2593.005	Outer_Full	19.11	20.45	/	Pass
	2679.99	Outer_Full	19.11	20.46	/	Pass

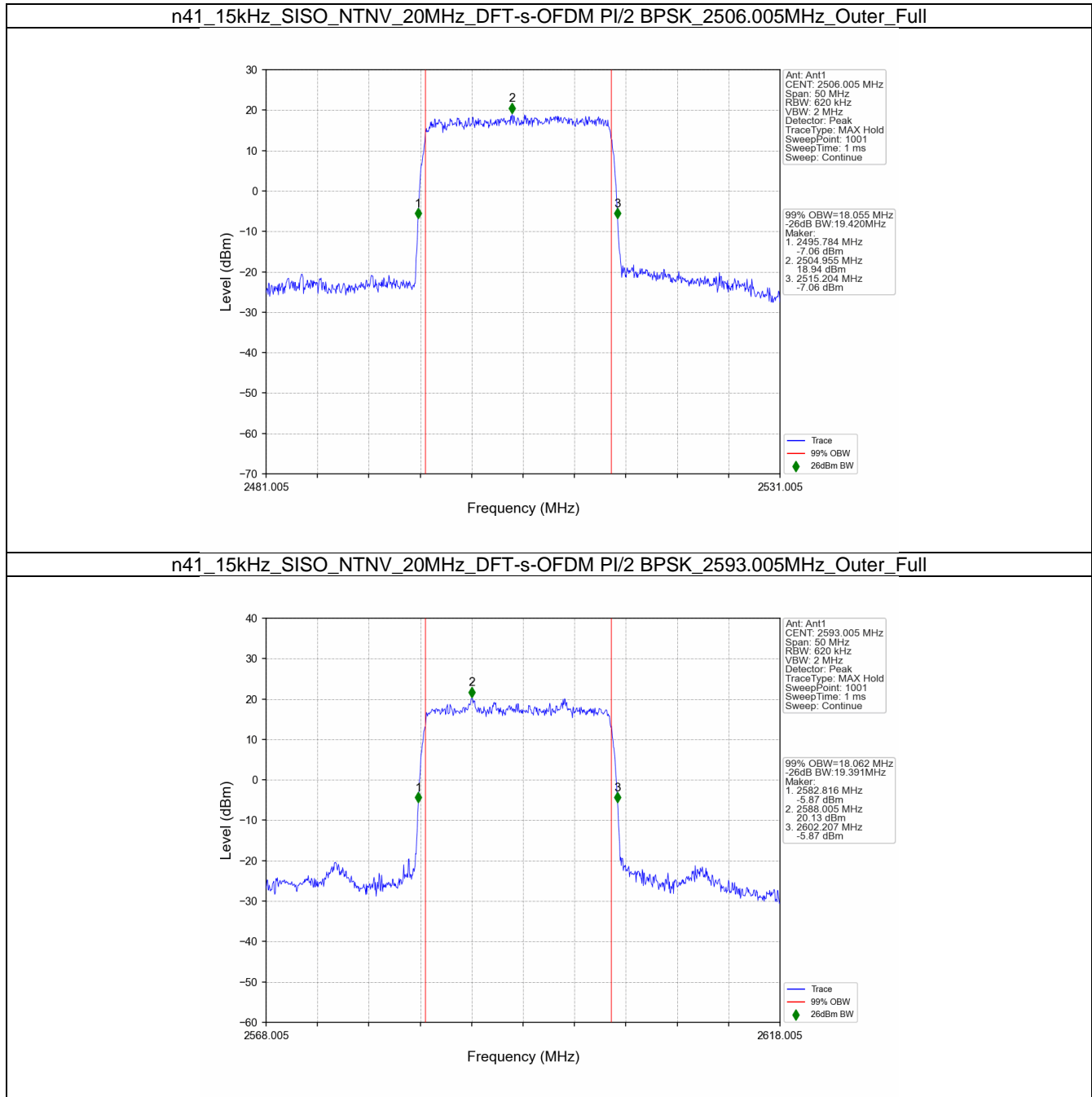


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4.3.2 Test Graph

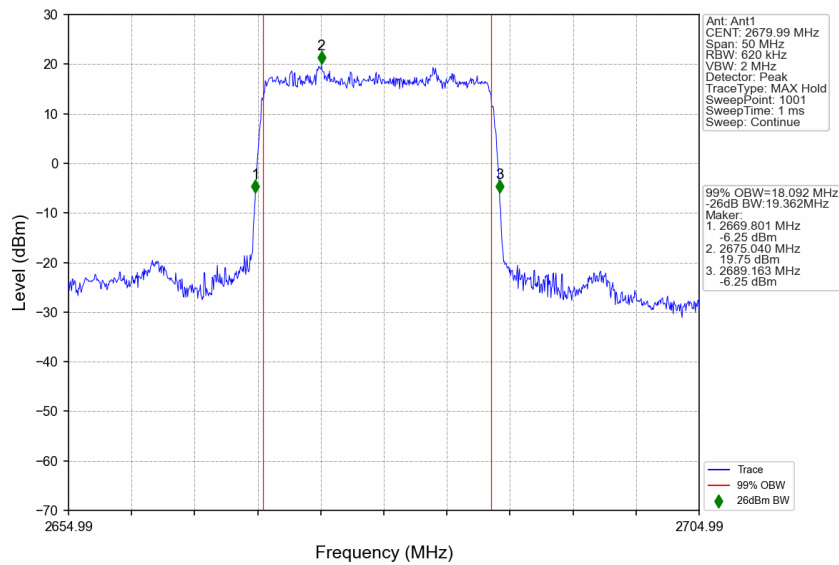


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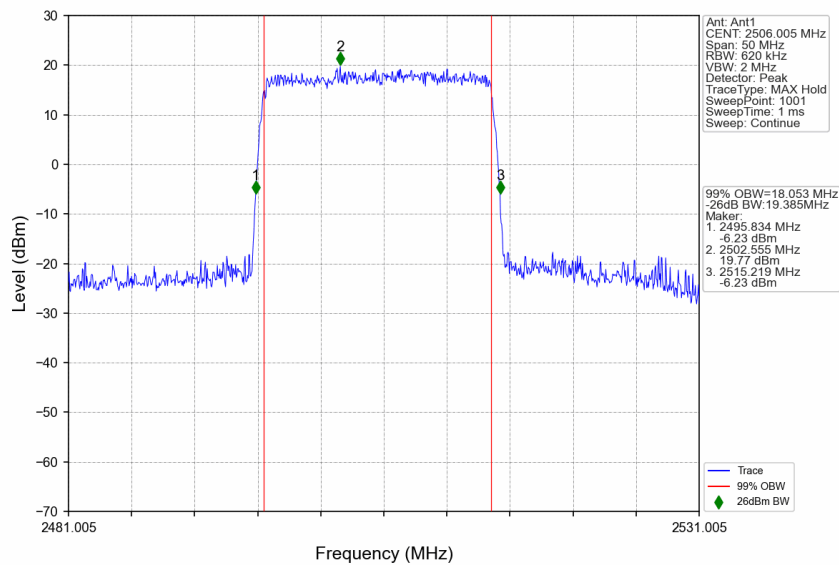
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2679.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2506.005MHz_Outer_Full

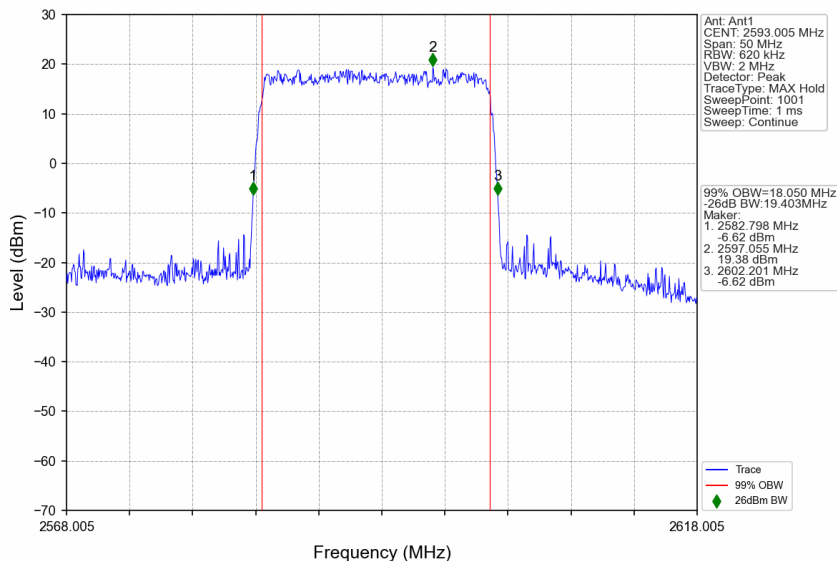


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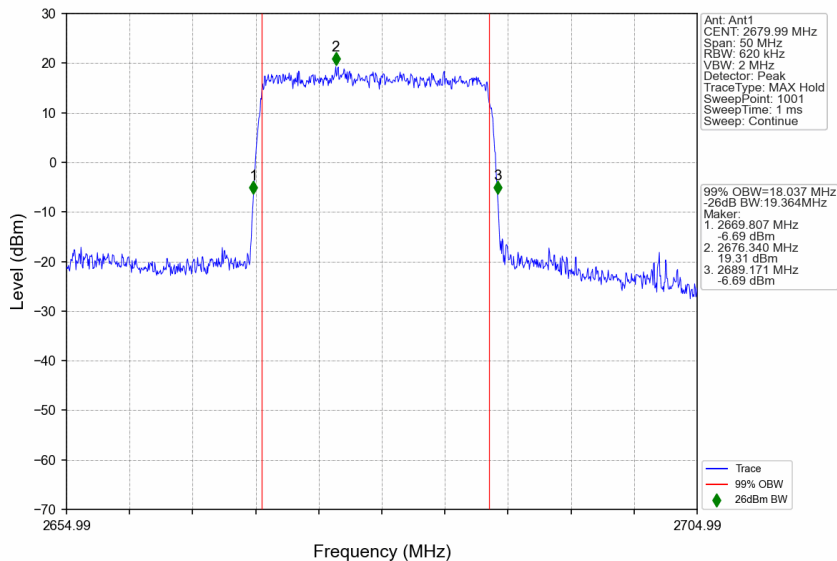
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2679.99MHz_Outer_Full

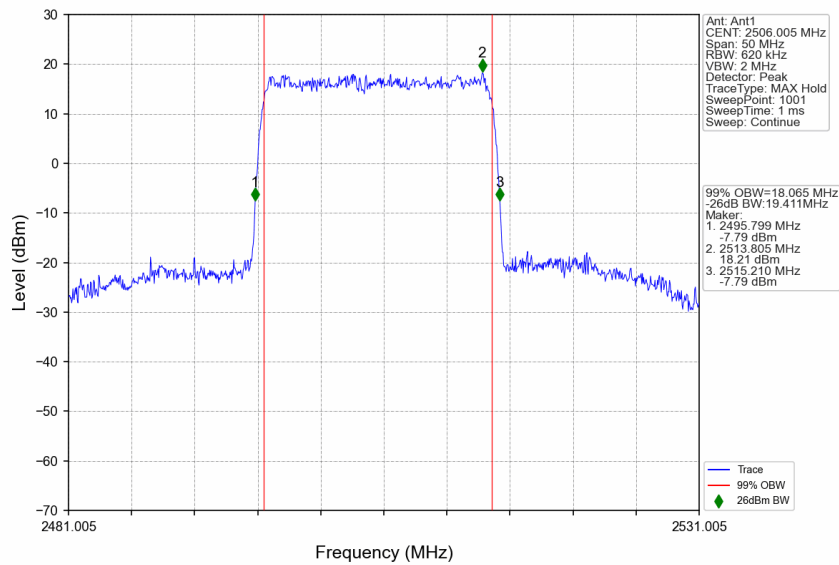


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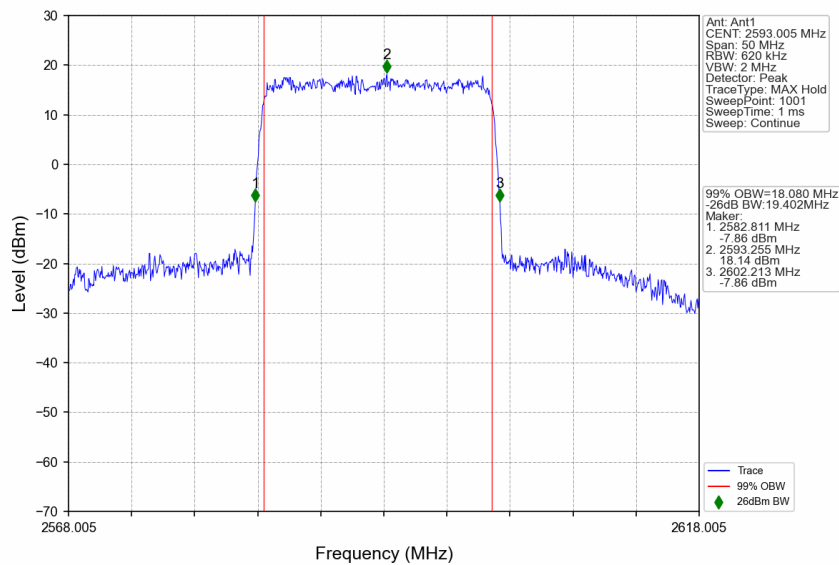
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n41_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_2593.005MHz_Outer_Full



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